

ANNUAL REPORT

(APRIL 2017-MARCH 2018)

63RD CONVOCATION ISSUE

24 December 2018

या दत्तपुत्र विश्वविद्यालय



JADAVPUR UNIVERSITY
KOLKATA 700032
INDIA

JADAVPUR UNIVERSITY
KOLKATA 700032

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যাদবপুর বিশ্ববিদ্যালয়

PROFESSOR SURANJAN DAS
VICE-CHANCELLOR

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JADAVPUR UNIVERSITY
KOLKATA-700 032,INDIA

OFFICE OF THE VICE-CHANCELLOR : AUROBINDO BHAVAN ANNEXE

PREFACE

The present Report captures the attainments of the University in 2017-2018. During this period the University won significant national and international recognitions for its pursuit of excellence. The institution has been shortlisted by the Government of India for the status of Institution of Eminence; the National Ranking Framework has accorded it the second rank among the State Universities and the thirteenth in the overall category; the University Grants Commission has granted it the Graded Autonomy Category-I status; the Times Higher Education has placed it in the 117th position under the category of Emerging Economies. Our University is the only one from West Bengal which has been selected for the grant of Rs.100 crores under the Rashtriya Ucha Siksha Abhijan; the Government of West Bengal has announced a financial package of Rs.100 crores to the University for creating a Centre of Excellence. The sustenance for the University's quest for excellence has been possible because of the united efforts of all sections of the University community and the support received from the state and central governments. I am sure in the coming days our University will be able to further strengthen its position in the academic map of the world.

On my own behalf and on behalf of the University administration I express sincere gratitude to Mr. Abhijit Sen and his colleagues for maintaining the tradition of publishing the Annual Report of the University on the day of the Convocation. I hope this practice will be continued in the comine days.

Suranjan Das

Suranjan Das
24 December

যাদবপুর বিশ্ববিদ্যালয়

DR. PRADIP KUMAR GHOSH
PRO-VICE-CHANCELLOR

তত্ত্বজ্ঞানসংকলিত

তত্ত্বজ্ঞানসংকলিত



JADAVPUR UNIVERSITY
KOLKATA-700 032,INDIA

OFFICE OF THE PRO-VICE-CHANCELLOR : AUROBINDO BHAVAN ANNEXE

MESSAGE

Like all previous years, Jadavpur University is going to hold its 63rd convocation on 24th December, 2018. It is indeed a great pleasure to prepare Annual Report which will highlight the achievements and academic attainments of the faculties & the university as a whole for the year 2017-2018. On this auspicious occasion, I want to congratulate the students who will be awarded degrees for their achievements. I feel proud that in this convocation, students of the university will get recognition of their academic feat and the hard-earned knowledge which they acquired during the study period in the university, will enable them to lead their lives in the best possible way.

Convocation is a milestone for any University. I take this opportunity of congratulating the entire university community for their hard work & dedication to publish such an excellent Annual Report.

I feel privileged to be associated with the publication of this Annual Report.

My best wishes to you all.

Pradip Kumar Ghosh

Pro-Vice Chancellor

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CONTENTS

CONVOCATION ADDRESS (2017) BY PROFESSOR SURANJAN DAS, VICE-CHANCELLOR [xiii]

SECTION A : ADMINISTRATIVE PROFILE

GENERAL INFORMATION OF JADAVPUR UNIVERSITY	47
VISION AND MISSION	53
COURSES OFFERED	54
UNIVERSITY OFFICERS	60
MEMBERS OF THE COURT	61
MEMBERS OF THE EXECUTIVE COUNCIL	68
DAY CARE CENTRE	71
MEMORANDUM OF UNDERSTANDING	72
NEW PROJECTS	75
OFFICE OF THE CONTROLLER OF EXAMINATIONS	77
OFFICE OF THE DEAN OF STUDENTS	77
OFFICE OF THE DIRECTOR OF PHYSICAL INSTRUCTION (SPORTS BOARD)	83
OFFICE OF THE DIRECTOR OF YOUTH WELFARE	86
SC/ST CELL	95

ANNEXURE I

FACULTY PROFILE	99
STUDENT PROFILE	117
LATE INCLUSION : CENTRAL LIBRARY	130

SECTION B : ACADEMIC REPORT

FACULTY COUNCIL OF ARTS : DEPARTMENTS

BENGALI	135
COMPARATIVE LITERATURE	137
ECONOMICS	147
EDUCATION	157
ENGLISH	162
FILM STUDIES	182
HISTORY	191
INTERNATIONAL RELATIONS	206
LIBRARY & INFORMATION SCIENCE	219
PHILOSOPHY	223
PHYSICAL EDUCATION	248
SANSKRIT	257
SOCIOLOGY	269

FACULTY COUNCIL OF ENGINEERING & TECHNOLOGY : DEPARTMENTS

ARCHITECTURE	275
CHEMICAL ENGG.	282
CIVIL ENGG.	293
COMPUTER SCIENCE & ENGG.	302
CONSTRUCTION ENGG.	322
ELECTRICAL ENGG.	326
ELECTRONICS & TELECOMMUNICATION ENGG.	334
FOOD TECH. & BIOCHEM.ENGG .	360
INFORMATION TECHNOLOGY	371
INSTRUMENTATION & ELECTRONICS ENGG.	384
MECHANICAL ENGG.	388
METALLURGICAL & MATERIAL ENGG.	406
PHARMACEUTICAL TECHNOLOGY	411
POWER ENGG.	422
PRINTING ENGG.	428
PRODUCTION ENGG.	428

FACULTY COUNCIL OF SCIENCE : DEPARTMENTS

CHEMISTRY	437
GEOGRAPHY	470
GEOLOGICAL SCIENCES	474
INSTRUMENTATION SCIENCE	486
LIFE SCIENCE & BIO-TECH.	491
MATHEMATICS	496
PHYSICS	513
ACHIEVEMENTS OF DR. ATISKUMAR CHATTOPADHYAY, PRINCIPAL SECRETARY	537
FACULTY COUNCIL OF SCIENCE	

FACULTY COUNCIL OF INTERDISCIPLINARY STUDIES LAW & MANAGEMENT

A. INTERDISCIPLINARY SCHOOL

ADVANCED STUDIES ON INDUSTRIAL POLLUTION CONTROL ENGG.	545
AUTOMOTIVE ENGG.	548
BIOSCIENCE & ENGG.	553
COGNITIVE SCIENCE	560
CULTURAL TEXTS & RECORDS	563
EDUCATION TECHNOLOGY	564
ENERGY STUDIES	569
ENVIRONMENTAL STUDIES	570
ILLUMINATION SCIENCE, ENGG. & DESIGN	574
INTERNATIONAL RELATIONS & STRATEGIC STUDIES	575
LANGUAGES & LINGUISTICS	577
MATERIALS SCIENCE & NANOTECH.	585
MEDIA COMMUNICATION & CULTURE	593
MOBILE COMPUTING & COMMUNICATION	605
NATURAL PRODUCT STUDIES	608
NUCLEAR STUDIES & APPLICATION	615
OCEANOGRAPHIC STUDIES	616
STUDIES IN ENVIRONMENTAL RADIATION & ARCHAEOLOGICAL SCIENCE	620
WATER RESOURCES ENGG.	621

WOMEN'S STUDIES	629
B. INTERDISCIPLINARY RESEARCH CENTRE	
ADVANCED RESEARCH IN PHARMACEUTICAL SCIENCES	657
COMPUTER AIDED DESIGN CENTRE	659
CONDENSED MATTER PHYSICS RESEARCH CENTRE	660
DISABILITY STUDIES	665
IC DESIGN & FABRICATION	668
KNOWLEDGE BASED SYSTEMS	683
MATHEMATICAL BIOLOGY & ECOLOGY	685
MICROPROCESSOR APPLICATIONS FOR	690
TRAINING EDUCATION & RESEARCH	
NUCLEAR & PARTICLE PHYSICS RESEARCH CENTRE	699
PLASMA STUDIES	701
QUALITY MANAGEMENT SYSTEM	703
SIR C.V. RAMAN CENTRE FOR PHYSICS & MUSIC	709
SRI AUROBINDO STUDIES	711
STUDIES OF RELIGION & SOCIETY	712
TRANSLATION OF INDIA LITERATURES (CENTIL)	713
WELDING TECHNOLOGY	716
C. DEPARTMENT	
ADULT, CONTINUING EDUCATION & EXTN.	721
D. SPECIAL PROGRAMME	
GLOBAL CHANGE PROGRAMME	727
JADAVPUR UNIVERSITY PRESS (PUBLICATIONS)	732
NATIONAL SERVICE SCHEME (N.S.S.)	736
REGIONAL CENTRE, NATIONAL AFFORESTATION & ECO-DEVELOPMENT BOARD	746
REGIONAL-CUM-FACILITATION CENTRE (EASTERN REGION),	749
NATIONAL MEDICINAL PLANTS BOARD (NMPB)	
RURAL & CRYOGENIC TECHNOLOGIES	751
SYLFF PROGRAMME	754
UGC-HUMAN RESOURCE DEVELOPMENT CENTRE	766

**SPECIAL CONVOCATION
AND THE
62ND ANNUAL CONVOCATION ADDRESS
BY
PROFESSOR SURANJAN DAS*
JADAVPUR UNIVERSITY
24 December 2017**

HONOURABLE SHRI KESHARI NATH TRIPATHI, THE CHANCELLOR OF THE UNIVERSITY AND GOVERNOR OF WEST BENGAL; HONOURABLE SHRI PRANAB MUKHERJEE, RESPECTED PROFESSOR VED PRAKASH, RESPECTED PROFESSOR AJAY KUMAR SOOD, RESPECTED DR. ARUN KUMAR BHADURI, ESTEEMED MEMBERS OF THE COURT AND EXECUTIVE COUNCIL, MY DISTINGUISHED DEANS OF FACULTIES AND COLLEAGUES, ESTEEMED PRO-VICE CHANCELLORS AND REGISTRAR, DISTINGUISHED GUESTS AND ALUMNI, AND MY DEAR STUDENTS

In his speech at the 1921 Calcutta University Convocation, Asutosh Mookerjee, whose Vice-Chancellorship of the country's oldest university was a turning point in the history of modern higher education in Bengal, had underlined the importance of the convocation in the life of a university:

This function serves to enlarge the primary scope of the University as an institution for the encouragement ... in the pursuit of a liberal course of education, by the promotion of study and research, by the provision for instruction of students, by the ascertainment of merit through examinations, and by the bestowal of rewards and honours.

This is exactly what we will be striving to attain on this day, which coincides with the day when the University started functioning in 1955.

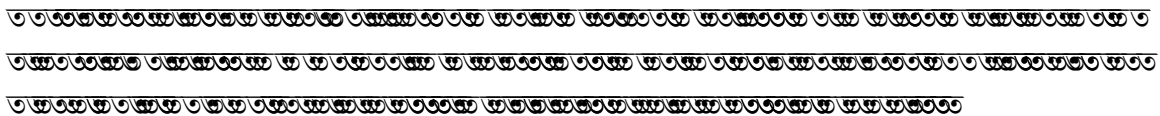
I consider it my privilege to sincerely and warmly welcome you to the 62nd Annual Convocation of the University. I express my deep gratitude to Honourable Shri Keshari Nath Tripathi, for kindly agreeing to chair today's function. Honourable Chancellor Sir, I joined this University under difficult circumstances, but with your guidance I have tried to discharge my duties to the best of my ability. On my own behalf and on behalf of the entire University community, I record my gratitude to Honourable Shri Pranab Mukherjee, our country's former First Citizen, for kindly agreeing to be the Chief Guest of this Convocation and accepting the Honorary D.Litt. degree. Honourable Shri Mukherjee Sir, I had occasion to welcome you twice while I was at Calcutta University. You have also been to this prestigious campus before, and I hope you will cherish this present visit too. The University is honoured to confer an Honorary D.Litt. degree to Professor Ved Prakash, former Chairman of the University Grants Commission, with whom I had the opportunity of working closely in that

regulatory body, and Honorary D.Sc. degrees to Professor Ajay Kumar Sood, the distinguished physicist from the Indian Institute of Science, Bengaluru, and Dr. Arun Kumar Bhaduri, esteemed Director of the Indira Gandhi Centre for Atomic Research, Kalpakkam. I cordially welcome the revered guests to this seat of learning.

In this Convocation, graduate degrees will be awarded to 585 students in Arts, 908 students in Engineering and Technology and 205 students in Science. Post-graduate degrees will be awarded to 676 students in Arts, 443 students in Engineering and Technology and 283 students in Science. 168 candidates will receive their M.Phil Degrees. Ph.D. Degrees will be conferred upon 83 scholars in Arts, 133 scholars in Engineering and Technology, 25 scholars in Pharmacy and 156 scholars in Science. 680 candidates from affiliated institutions will also be awarded degrees. I place on record the University's wholehearted congratulations to all students and scholars whose hard work and dedication to the teaching-learning process is being recognized today. I complement the Controller of Examinations and his staff for maintaining the examination schedule and publishing the results on time.

1. The University's Pursuit of Excellence

Inaugurating the Bengal National College on 14 August 1906, a landmark event that initiated the establishment of Jadavpur University in 1955, Gurudev Rabindranath Tagore had hoped:



Hon'ble Chancellor Sir and Hon'ble Shri Pranab Mukherjee, I am happy to report that this University, with its 36 Academic Departments, 21 Schools of Interdisciplinary Research and 41 Interdisciplinary Research Centres organized around four Faculties, continues to carry forward the trust reposed by Tagore through its constant quest for academic excellence and extension activities. This has won for the University both national and international recognition. I take this opportunity to summarise our University's major attainments since the last Convocation of 24 December 2016.

- An analysis of the National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India, 2017, shows that Jadavpur University occupies the 1st position among state universities, the 5th position among all universities, the 9th position among engineering institutions, and the 12th position in the overall ranking amongst all academic institutions of the country.
- The Times Higher Education Asia University Ranking, 2017 placed Jadavpur University in the range between 101 and 110 within the top 250 Asian universities.
- The National Taiwan University (NTU) ranking placed Jadavpur University in 12th position among all Indian universities and the first among the country's state universities.
- The University has a unique record of having 22 out of 36 departments within the Special Assistance Programme of the University Grants Commission (UGC), 8 of

which have been accorded the status of Centre for Advanced Studies.

- The University was among the country's first five universities to receive the UGC's recognition in 2001 as a University with Potential for Excellence. We are currently implementing the second phase of the scheme with an allocation of Rs 50 crores. This grant has enabled the University to undertake research of the highest order in such frontier areas as nano-science, cognitive science, advanced materials and devices, natural products and drug delivery, mobile and innovative computing, and digital humanities. Our Sri Aurobindo Studies Centre and Rabindranath Tagore Studies Centre continue to receive additional grants from the UGC.
- Upon the successful completion of the research projects under the first phase of the DST-PURSE scheme offered by the Department of Science and Technology, Government of India, the University has been selected for the 2nd phase of the scheme for augmentation of research activity and infrastructure in Science and Engineering departments with a grant of Rs. 36.8 crores. 6 Science Departments, 15 Engineering and Technology Departments, and 16 Schools will benefit from this scheme, scheduled to be continued till 2019.
- We have successfully completed Phase-II of the World Bank-funded Technical Education Quality Improvement Programme (TEQIP) for procuring of equipment and learning resources, faculty and staff development, teaching and research assistantship, student support, and industry-institute interactions and have been evaluated as one of the best performing Institutes under this Programme. The University was also awarded one Centre of Excellence in the area of Phase Transformation and Product Characterisation with an additional allocation of Rs. 5 crores. I am happy to report that in April 2017 the University was awarded TEQIP-III with a total allocation of Rs. 7 crores and the additional responsibility of mentoring Rajasthan Technical University, Kota.
- The Jagadish Chandra Bose Centre for Advanced Technology – a collaborative venture of Jadavpur University and the Defence Research and Development Organization, Government of India – was inaugurated last year to conduct scientific and applied research in directed areas of advanced defence technology. We have already received from the Centre two projects on Software Defined Network and Laser Communication to the tune of Rs. 4.65 crores. The renovation work of the West Annex campus (erstwhile National Instrument Limited Campus)– where the Centre will be located – is scheduled for completion by March 2019.
- Under the Rashtriya Uchchatar Shiksha Abhiyan (RUSA), the University has already utilized a sum of Rs. 2.5 crores to initiate the Eastern Regional Cyber Security Centre. The second installment of the RUSA grant has also been received, a sizeable part of which is to be spent on refurbishing the Information Technology infrastructure of the University.
- In the current phase of the University with Potential for Excellence scheme, the University has introduced an in-house e-governance system – Jadavpur University Management System (JUMS). The Centre for Distributed Computing was entrusted

with its development and implementation. The Admission System, Academic Management System and the Examination Management System, the Grants Management System, GST Invoicing System, as well as General Receipts System of the Accounts section are proposed to be brought under this system to ensure transparency and efficiency.

- The UGC Human Resource Development Centre – currently under the Directorship of Professor Rajat Acharyya – organized 4 Orientation Programmes, 6 Refresher Courses, 1 Winter School, and 8 Short-Term Courses in various specialized and emerging areas.
- The University's Global Change Programme continues to provide research inputs to the Inter-Governmental Panel on Climate Change (IPCC) in the preparation of reports on climate change impact and 'mitigation potential' in West Bengal. This research unit has been invited by the Government of India to help the formulation of the Third National Communication to the United Nations Convention on Climate Change. Professors Joyashree Roy, Biswanath Ray, and Suchandra Bardhan are the leading researchers associated with the Programme.
- The School of Cultural Texts and Records remains engaged with documentation and digitization of endangered cultural material, electronic editing, and software development.
- The School of Education Technology and the Strategy Academy Centre for Advanced Studies (TSACAS) have started a Post- Graduate Diploma programme in Management and Entrepreneurship. Dr Matangini Chattopadhyay of the School of Education Technology is collaborating with Dr. Hubert P. H. Shum of the University of Northumbria, Newcastle upon Tyne, for a Royal Society International Exchange-funded project on *An Affective Smart Environment for Personalized Learning and Teaching*.
- The School of Natural Product Studies works closely with the Science and Technology Department and Ministry of Ayush, Government of India, for the development of natural products and validation of traditional medicine and indigenous knowledge systems, and with the Biotechnology Department of the Government of India for *Transnational Research for Products and Processes from Medicinal and Aromatic Plants*. The School also collaborates with private industries like Emami Pvt. Ltd., Albert David Ltd., and Parker Robinson Pvt. Ltd. for product development.
- The School of Illumination Science Engineering and Design (SISED) has a collaborative programme with the West Bengal Biodiversity Board for the measurement of illumination in the Rabindra Sarovar (South Kolkata Lake) before and during football matches. Parthasarathi Satvaya of SISED and Professor Saswati Mazumdar of the Electrical Engineering Department are undertaking a rapid Environmental Impact Assessment (EIA) study in the Rabindra Sarovar area.
- The School of International Relations and Strategic Studies and the International Relations Department jointly organized a round table conference on September 20

where Professors from Jadavpur University and the University of Hull (UK) made presentations and exchanged views on contemporary international relations.

- The School of Media, Communication and Culture operates the University's Community Radio, the first of its kind in eastern India. It provides an interactive platform for all sections of the University community and the local people around the University to showcase their talent and creativity on a range of issues: education, sports, music, public health, folk song, culture and heritage, child rights, travel, and social issues like physical and mental disability.
- The School of Water Resources Engineering is involved with the European Union-India Research Project on Water Sector for which Professor Asis Mazumdar is the Coordinator of the Indian Consortium. The School has been empanelled by the National River Conservation Directorate (NRCD) under the Ministry of Environment and Forests and Climate Change, Government of India, as Consultant Institute (CI) for undertaking evaluation of DPRs for projects related to the National Ganga River Basin Authority (NGRBA) / National River Conservation Plan (NRCP). It has been engaged as the Third Party Inspection (TPI) for evaluating the work of River Front Development (RFD) and Electric Crematorium (EC) Works under the NGRBA for Eastern and North-Eastern States.
- Research projects pursued in the School of Women's Studies continue to have an interface with autonomous women's groups and non-governmental organisations. There have been engagements with domestic workers' movements and collaborations with organisations working on child marriage and trafficking. Faculty members of the School have been part of such organisations, namely the Sachetana and Maitree networks.
- The Centre for Surface Science is associated with as many as 11 research projects. Its project on 'Colloidal and Solution Behaviour of Carbohydrate-based Polymer in Presence of Surfactant, Electrolyte and Non-Electrolyte including Solvent' is being funded by the Council of Scientific and Industrial Research, Government of India.
- The Ministry of Ayush, Government of India, has identified the Regional Centre of the National Afforestation and Eco-Development Board, located in the campus, as Regional Facilitation Centre of the National Medicinal Plant Board with an initial grant of Rs. 1.49 crores. The University's School of Natural Product Studies is also associated with the project.
- The School of Water Resources Engineering organised a five-day training course on Watershed Management for Indian Forest Service officers from 6 to 10 November, 2017 with the support of Ministry of Environment and Forests and Climate Change, Government of India, and the Regional Centre, National Afforestation and Eco-Development Board. The Department of Panchayat and Rural Development, Government of West Bengal, has entrusted the School with the training of 600 Nirman Sahayaks to strengthen the Gram Panchayat programme.
- Under the able direction of Professor Abhijit Gupta, the Jadavpur University Press

(Publications) has created its own niche in the publishing world. During the last year it has published the following six titles:

1. Dante Alighieri, *Norok (L'Inferno)*. Translated from the Italian into Bengali by Alpana Ghosh under the general editorship of Sukanta Chaudhuri, and third in the Italo-Bangla Anubad series.
2. Haruki Murakami, *Samudratate Kafka II (Umibe no Kafuka)*. Second volume, translated from the Japanese into Bengali by Abhijit Mukherjee. (Supported by the Japan Foundation)
3. *Ekdojon Rui Zink*, collection of short stories. Translated from the Portuguese into Bengali by Rita Ray. (Supported by the Camoes-Instituto da Cooperacao e da Lingua, I.P.)
4. Haruki Murakami, *Samudratate Kafka I (Umibe no Kafuka)*. Translated from the Japanese into Bengali by Abhijit Mukherjee. (Supported by the Japan Foundation)
5. Sayantan Dasgupta and Kabita Lama, eds., *Call of the Hills: A Coursebook of Indian Nepali Literature in Translation*.
6. Sangeeta Dutta and Subhoranjan Dasgupta, eds., *Tagore: The World as His Nest*.

Jadavpur University Press (Publications) has also compiled the brochure for the University and published *Journal of the Moving Image* 13, the academic journal of the University's Film Studies Department. It continues to take an active part in the Kolkata Book Fair and New Delhi World Book Fair. It has recently embarked on a series of collaborative exercises with the Asiatic Society, Kolkata.

- The Centre for Disability Studies and Rehabilitation developed an audio-book library for the visually impaired students of various departments. It also conducts Personality Grooming and Communicative Language Courses, Basic Computer Course, and Counselling Course. Its research has reached a completion stage to develop a mobile app – the JUGUIDE – for easy identification of landmarks in the campus. The Centre's activities aim to integrate the physically challenged members of society within the mainstream.
- In accordance with contemporary requirements, the University has introduced the Choice Based Credit System at the undergraduate level in the Arts and Science Faculties beginning from the current academic year. The Engineering and Technology Faculty is finalizing syllabus reforms as per AICTE guidelines. To meet growing demands, the University has introduced a self-financing mode M.A. course on Journalism and Mass Communication.
- With the help of a State Government grant of Rs. 30 lakhs, the University has operationalized 10 Smart Class Rooms – 9 in the Main Campus and 1 in the Salt Lake Campus. These fully ICT-equipped Class Rooms were inaugurated on July 5 2017 by Dr. Partha Chatterjee, the Hon'ble Minister-in-Charge of School and Higher

Education, Government of West Bengal.

- The University has provided space for academic deliberations and debates through seminars and workshops. Since January 2017, more than 53 academic programmes – including 4 at the international level – have been organized

Compared to their counterparts in central universities, my colleagues work under trying conditions. Yet in terms of the input-output ratio they have outstripped the national aggregate in the realm of academic excellence. I congratulate my colleagues for this achievement. They are currently pursuing 141 major research projects to the tune of Rs. 59,04,50,879. This includes 6 UGC Major Research projects, 55 DST/SERB projects, 17 CSIR projects, 14 DBT projects, 7 DAE BRNS projects, 4 West Bengal Department of Bio-Technology projects, 4 DRDO projects, 4 UGC DAE CSIR projects, 4 UGC FRP Start-Up projects, 5 Indian Council of Social Science Research Council projects, 3 MOES projects, and 2 All India Council of Technical Education projects. Besides these, my colleagues' research projects are being funded by the Directorate of Food Processing Industries and Horticulture, Government of India, Ministry of Mines, Government of India, Ministry of New and Renewable Energy, Government of India, Ministry of Food Processing Industries, Government of India, Indian Council of Historical Research, Indian Council of Medical Research, Indian National Science Academy, Research Society for the Study of Diabetes in India, Spices Board as well as private concerns like Albert David and Emami.

Professor Prabhas Chakrabarti of Metallurgical and Material Engineering Department and his team were invited to participate in the National Mission on 'Advanced Supercritical Technology' to be implemented by the BHEL-NTPC-IGCAR consortium. They have submitted six proposals with a total involvement of Rs. 30.60 crores. Two proposals worth Rs. 9.28 crores have already been approved. The primary objective of this Mission is to build coal-based thermal power plants with very high operating temperatures for increased efficiency with less consumption of fossil fuel, thereby reducing the emission of carbon dioxide. Jadavpur University will work in collaboration with IGCAR, Kalpakkam in undertaking this project.

At present 344 research scholars are working in the University with funding from Government, non-Government and private funding agencies. Out of this number, 80 are supported by the Council of Scientific and Industrial Research, 53 by the State Government, 86 by the University Grants Commission, 103 by the Department of Science and Technology, Government of India, 4 by the Department of Atomic Energy, Government of India, 7 by the Department of Bio-Technology, Government of India, 1 by the Indian Council of Social Science Research, 2 by the National Board for Higher Mathematics, and 1 by Tata Consultancy Services. 68 female students of the University benefitted from the West Bengal Government's landmark 'Kanyashree Prakalpa' project which aims to fund the education of women. The newly introduced K3 programme is also being implemented. Besides this, 84 Ph.D. scholars and 138 M.Phil. students in the Science, Humanities and Social Sciences faculties are working as UGC Non-NET Fellows. We have requested the UGC to continue to support these scholars so they may complete their research. Effective from April 2017, the West Bengal Government has, however, granted Non-NET Fellowships out of its own resources to students of all universities of the state. I congratulate the West

Bengal Government for introducing this Scheme.

The University's academic exercises are effectively supported by our library system. The Central Library in the main campus houses a collection of 6,54,540 books, 82,514 bound volumes of journals, 9,147 Ph.D. theses, 8,631 post-graduate and M.Phil. dissertations, and 37,000 non-book materials such as reports, pamphlets, maps and microforms. The Central Library subscribes to 213 print journals, 3,555 online journals, and 44 print + online journals; the Salt Lake Campus Library has subscriptions to 48 print journals, 18 online journals, and 7 print + online journals. The University has access to 9,314 online journals from eSodh Sindhu (INFLIBNET). The total numbers of e-book subscriptions are LNCS 610, LNP 20 and Ebrary 142618. A Vietnam Book Corner has been opened in the Central Library with a donation from the India-Vietnam Solidarity Committee in West Bengal and the Vietnam Embassy in India.

The fruits of the research undertaken by my colleagues are reflected in their publications. Since the last Convocation, my colleagues have published 131 books and 2,665 papers in international/ national/ peer-reviewed journals and conference/ seminar/ symposium proceedings. They have also registered their effective presence in national and international seminars and workshops. The following list – though in-exhaustive – indicates their presence in national and international academic programmes.

- Dr. Pritam Aich, Department of Civil Engineering, presented a paper at the 19th International Conference on Pollution and Pollution Control Technologies in Singapore.
- Professor Sugata Hazra represented the School of Oceanographic Studies at the International Conference on European Geo Science Union (EGU) General Assembly from April 21-29, 2017 at Vienna.
- Professor Amallesh Samanta, Division of Microbiology and Biotechnology, Pharmaceutical Technology Department, was the Keynote Speaker at the workshop on 'Bioactive Polysaccharides' at Clare College, Cambridge, 12-13 September 2017.
- Professor Sibapriya Mukherjee, Department of Civil Engineering, presented a paper at the EBUILT Conference in Romania.
- Professor Dinabandhu Ghosh, Department of Metallurgical and Material Engineering, presented a paper at 146th Annual Meeting & Exhibition at San Diego, USA.
- Professor Sadhan Kr. Ghosh, Department of Mechanical Engineering, delivered invited lectures at International Conferences at Widener University, Philadelphia, USA and Hefei University, China. He also delivered speech at the Aston Business School, Birmingham, UK, Taipei, Monash University, Italy, Kunming, China, National University of Laos, Khulna University, Bangladesh, Adelaide, Australia and Tshinhua University, Beijing.
- Professor Sudipta De, Department of Mechanical Engineering, delivered invited lectures at the University of Oslo and University of Stavanger, Norway.

- Professor Prokash Chandra Roy, Department of Mechanical Engineering, presented papers at the International Conferences at Istanbul, Turkey and London, UK.
- Professor Prasanta Sahoo, Department of Mechanical Engineering, presented a paper at the International Conference at Athens, Greece.
- Professor Goutam Pohit, Department of Mechanical Engineering, attended the International Conference at Athens, Greece.
- Professor Nipu Modak, Department of Mechanical Engineering, presented a paper at the International Conference at the University of British Columbia, Vancouver, Canada.
- Professor S. Saraswati, Department of Construction Engineering, delivered invited lecture at 7th Asian Concrete Federation Conference at Hanoi, Vietnam.
- Professor K. Bandyopadhyay, Department of Construction Engineering, participated at the Geo-Chicago Conference at Chicago, USA.
- Professor Suddhasatwa Chakraborty, Department of Electrical Engineering, delivered invited talk at the University of Berlin, Germany. He was also engaged as a Visiting Scientist of the University of Berlin, Germany.
- Professor Rajib Bandyopadhyay, Department of Instrumentation and Electronics Engineering, delivered invited lecture at IMTO University, St. Petersburg, Russia.
- Professor Ujjwal Maulik, Department of Computer Science and Engineering, delivered a lecture at the University of Padova, Italy. He visited International Centre for Theoretical Physics (ICTP) at Trieste, Italy.
- Professor Debotosh Bhattacharjee, Department of Computer Science and Engineering, delivered a lecture at Ljubljana University, Slovenia as an EMINTE Fellow of European Commission and presented a paper and chaired a session at ICITISEE 2016 in Yogyakarta, Indonesia. He also attended 13th International Summer School on Biometrics at Alghero, Italy.
- Professor Subhadip Basu, Department of Computer Science and Engineering, delivered invited lectures at the University of Lorraine, France.
- Professor Nandini Mukherjee, Department of Computer Science and Engineering, presented a paper at the IEEE International Conference at Vienna and another at the IEEE Symposium (SAS) at Glassboro, NJ.
- Professor Debesh Das, Department of Computer Science and Engineering, presented a paper at 12th International Workshop on Boolean Problems at Freiberg, Germany.
- Dr. Ranjan Ganguly, Department of Power Engineering, is acting as Adjunct Professor at the University of Illinois, Chicago.
- Professor Amitava Gupta, Department of Power Engineering, is acting as Adjunct Professor of IIT, Kanpur and attended a Training Series at Texas A&M University on invitation.
- Dr. Ujjaini Sarkar, Department of Chemical Engineering, delivered invited talk at

CRIBIQ Conference at Quebec City, Canada and presented papers at Kuala Lumpur, Malaysia, Cambridge, UK and Colombo, Sri Lanka.

- Dr. Sudeshna Saha, Department of Chemical Engineering, presented a paper at EUBCE 2016 – European Biomass Conference and exhibition at Amsterdam.
- Professor Bhaskar Gupta, Department of Electronics and Telecommunication Engineering, chaired a session at 16th MMS 2016 at Abu Dhabi, UAE.
- Professor Subir Kumar Sarkar, Department of Electronics and Telecommunication Engineering, delivered a keynote speech in an International Conference at Bangkok, Thailand.
- Dr. Ananda Shankar Chowdhury, Department of Electronics and Telecommunication Engineering, delivered lectures at the University of Groningen, The Netherlands and University of Padova, Italy.
- Dr. Sayan Chatterjee, Department of Electronics and Telecommunication Engineering, chaired a session in an International Conference at Beijing, China.
- Dr. Pratyusha Rakshit, Department of Electronics and Telecommunication Engineering, presented a paper in IEEE World Congress 2016 at Vancouver, Canada and another in IEEE Congress 2017 at Danostia-San Sebastian, Spain.
- Professor Samiran Chattopadhyay, Department of Information Technology, attended 2nd Physical meeting of Smart Link Programme at Danang, Vietnam.
- Dr. Sruti Gan Chaudhuri, Department of Information Technology, visited University of Ottawa, Canada as a Visiting Researcher.
- Dr. Dipankar Halder, Department of Food Technology and Biochemical Engineering, presented a paper at 27th ECCMID 2017 at Vienna, Austria.
- Dr. Dipankar Mondal, Department of Physics, presented a paper at the Nano World Conference at Boston, USA and another paper at the MRS Spring Meet & Exhibit at Phoenix, Arizona, USA.
- Dr. Bharati Tudu, Department of Physics, presented a paper at the APS Meeting at New Orleans, Louisiana, USA.
- Dr. Sankar Narayan Patra, Department of Instrumentation Science, attended IEEE Workshop and Conference at Las Vegas, USA.
- Dr. Sachindranath Das, Department of Instrumentation Science, delivered invited lecture in a Workshop at Yonsei University, South Korea.
- Dr. Manoranjan Khan, Department of Instrumentation Science, delivered series of lectures at the Department of Physics, Beijing Agricultural University, China.
- Dr. Sukhendu Kar, Department of Mathematics, delivered invited talk in International Conference ICMME 2016 at Education University of Hong Kong.
- Dr. Nandadulal Bairagi, Department of Mathematics, delivered invited talks in a Seminar at Czech Academy of Sciences, Prague and Brno and also in International Conference at Beijing Technology and Business University and at Nankai University,

China.

- Professor Priti Kumar Roy, Department of Mathematics, delivered invited talks at Beijing Institute of Technology, Beijing Technology and Business University, Anyang Institute of Technology, China, University of Warsaw, Poland and University of Chemistry and Technology, Prague, Czech Republic.
- Professor Bibhas Chandra Giri, Department of Mathematics, visited Technische Universität Darmstadt, Germany under Alexander von Humboldt Research Fellowship.
- Professor Dipak C Pal, Department of Geological Sciences, presented two papers at Goldschmidt Conference at Yokohama, Japan. He has been elected as Council Member of the International Association for the Genesis of Ore Deposits (IAGOD) for four years (2016-2020).
- Dr. Soumen Ghosh, Department of Chemistry, delivered invited lectures at the National Cheng Kung University and National Taiwan University, Taiwan. He has been elected as Joint Secretary of Indian Society for Surface Science and Technology.
- Professor Subratanath Koner, Department of Chemistry, delivered invited lecture at the Ghent University, Belgium as a Visiting Professor.
- Dr. Debajyoti Ghoshal, Department of Chemistry, presented a paper in a seminar at Dubai, UAE.
- Professor Shibashis Chatterjee, Department of International Relations, presented a paper as a part of the South Asian Studies Colloquium Series at Yale University and delivered a lecture at the Soka University Los Angeles, USA.
- Professor Kanak Chandra Sarkar, Department of International Relations, delivered a series of invited lectures at the Jahangirnagar University, Bangladesh.
- Sri Kaustav Bakshi, Department of English, delivered invited lecture at the Asian and Asian American Studies Institute, University of Connecticut, USA and presented a paper at the International Conference at Syracuse University, Upstate, New York.
- Professor Paromita Chakravarti, Department of English, delivered a paper at the Indian Shakespeare on Screen Conference organized by the Royal Holloway College, London, another paper at a round table at Stratford, U.K. and a keynote address at the International Seminar organized by The Armenian Shakespeare Association in Yerevan, Armenia.
- Professor Nandini Saha, Department of English, delivered keynote address in the International Conference at the Friedrich-Schiller University, Jena, Germany.
- Dr. Sutanuka Ghosh, Department of English, presented a paper at the 45th Annual Conference on South Asia at the University of Wisconsin-Madison, USA.
- Professor Kunal Chattopadhyay, Department of Comparative Literature, presented two papers and chaired two sessions of the XXth World Congress of International Comparative Literature Association at the University of Vienna.
- Professor Suchorita Chattopadhyay, Department of Comparative Literature, presented

two papers and chaired a session of the XXth World Congress of International Comparative Literature Association at the University of Vienna.

- Professor Ipsita Halder, Department of Comparative Literature, delivered lectures at the University of Calgary.
- Dr. Debashree Dattaray, Department of Comparative Literature, delivered a lecture at the Biennial International Indigenous Research Conference at the University of Auckland, New Zealand. She also presented a paper at the Annual International SARI Colloquium at the University of Paris.
- Professor Joyashree Roy, Department of Economics, delivered invited talk at Belgium, Oslo-Norway, Switzerland, Russia, Hungary and chaired sessions at Kathmandu, Oslo-Norway, Sweden, and Germany. She has been selected as expert for IPCC 1.5 Special report Chapter Coordinating Lead Author, 2017-19.
- Professor Rajat Acharyya, Department of Economics, delivered invited lecture at Yunnan Normal University, China.
- Professor Ajitava Ray Chaudhuri, Department of Economics, presented a paper at Myanmar Capacity Building Workshop.
- Professor Gautam Gupta, Department of Economics, presented a paper at Dr. Sun Yat-sen University, Guangzhou, China.
- Professor Prabirjit Sarkar, Department of Economics, presented papers at Washington, D.C., Chicago and Cambridge.
- Professor Saikat Sinha Roy, Department of Economics, presented papers at Shanghai Lixin University of Commerce and Asian Development Bank, Tokyo.
- Professor Swapnendu Bandyopadhyay, Department of Economics, presented papers at London School of Economics, University of Nottingham and University of Birmingham, UK.
- Dr. Madhuj Mukherjee, Department of Film Studies, delivered lecture at Inter-Asia Cultural Studies Summer School, Lingnan University, Hong Kong and presented paper at the University of Michigan.
- Professor Mahua Sarkar, Department of History, was invited to present two papers at the 24th Conference of European Association of South Asian Studies, Warsaw, Poland and delivered invited lectures at the University of Sussex, UK.
- Professor Anuradha Roy, Department of History, delivered invited lectures at the Valladolid University, Spain and University of Carlos III, Madrid, Spain.
- Professor Kaushik Roy, Department of History, presented a paper at a Conference held at Indiana University-Bloomington, USA.
- Professor Subhasis Biswas, Department of History, chaired a session at International Conference of European Association of Asian Studies in Poland.
- Dr. Suchetana Chattopadhyay, Department of History, attended and presented a paper at a Conference in Eisenberg Institute of Historical Studies, University of Michigan,

USA.

- Professor Goutam Maity, Department of Library and Information Science, has been felicitated by the Library Association of Bangladesh, Dhaka.
- Dr. Piyali Sur, Department of Sociology, presented papers at 3rd ISA Forum in Sociology at University of Vienna.
- Professor Sudip Sundar Das, Department of Physical Education, delivered lecture in an International Seminar at Jessore University of Science and Technology, Bangladesh
- Professor Ashoke Kumar Biswas, Department of Physical Education, delivered a lecture and chaired a session in an International Seminar at Jessore University of Science and Technology, Bangladesh.
- Dr. Asish Paul, Department of Physical Education, developed e-learning material of two modules for Netaji Subhas Open University, Kolkata.
- Dr. Gopi Nath Mondal, Department of Philosophy, has been conferred Ph.D. degree by the University of Milan, Italy.
- Professor Samita Sen, School of Women's Studies, delivered lectures at CeMIS, Goettingen and University of Oldenburg, Germany.
- Dr. Rimple Mehta, School of Women's Studies, delivered invited lectures at International Institute for the Sociology of Law, Oñati, Spain and University of Oxford, UK.
- Dr. Nandini Mukherjee, School of Women's Studies, delivered lecture at National University of Ireland, Galway.
- Professor Sujata Tarafdar, Condensed Matter Physics Research Centre, delivered invited talk at EMN Conference on Droplets at San Sebastian, Spain.
- Professor Pulok K. Mukherjee, School of Natural Product Studies, delivered invited lectures at Lebanon and Yulin, Guangxi, China.
- Dr. Aparup Konar, Director of Physical Instruction, presented a paper in an International Seminar at Jessore University of Science and Technology, Bangladesh.

Academic achievements by my colleagues have received national and international recognition.

- Professor Dipak Ghosh, Emeritus Professor, Sir C.V. Raman Centre for Physics and Music, has been awarded the prestigious Tagore National Scholarship from the Ministry of Culture, Government of India to undertake a research project on 'Emotion Cognition based Categorization and Learning of Indian Classical Music (Guru Shishya Parampara Online)' using novel non-linear computing technique.
- Professor Biswajit Mukherjee, Department of Pharmaceutical Technology, received the Association of Pharmaceutical Teachers of India Award and the Professor C.J. Shishoo Award for outstanding contribution in Pharmaceutical Sciences 2016.
- Professor S.C. Mondal, Department of Pharmaceutical Technology, received the Dr.

P.C. Dutta Memorial Award from the Botanical Society of Bengal.

- Professor Swarnendu Sen, Department of Mechanical Engineering, has been elected a Fellow of the International Society for Energy, Environment and Sustainability.
- Shri Abhijit Chandra, Department of Instrumentation and Electronics Engineering, received the IEI Young Engineers Award from The Institute of Engineers (India).
- Professor Subhadip Basu, Department of Computer Science and Engineering, has received an honorary Research Scientist position from the Department of Electrical and Computer Engineering, University of Iowa, USA.
- Dr. Nibaran Das, Department of Computer Science and Engineering, obtained the 3rd Excellence Award of International Document Information Processing School (IDIPS 2016) at Samos, Greece.
- Dr. Kamal Sarkar, Department of Computer Science and Engineering, won the First Prize in the NLP Tool Contest in ICON 2016 at the Indian Institute of Technology, Banaras Hindu University.
- Dr. Debabrata Bera, Department of Food Technology and Biochemical Engineering, received the 1st Track Medal along with other two researchers for their paper at the First International Conference on Sustainable Energy and Environmental Changes held at Mohali.
- Dr. Nandadulal Bairagi, Department of Mathematics, received the Indian National Science Academy-Czech Academy of Sciences Bilateral Exchange Programme Award 2017.
- Professor Priti Kumar Roy, Department of Mathematics, was conferred the Poland Academy of Science Fellowship Award under the Indian National Science Academy-Poland Academy of Science Bilateral Exchange Programme 2016.
- Professor Pratulananda Das, Department of Mathematics, received the prestigious INSA Teachers Award, 2017 from the Indian National Science Academy, New Delhi.
- Professor Nitin Chattopadhyay, Department of Chemistry, has been elected a Fellow of the National Academy of Sciences, India.
- Professor Chittaranjan Sinha, Department of Chemistry, has been elected Honorary Secretary of the Indian Chemical Society.
- Professor Sujoy Baitalik, Department of Chemistry, has been elected a Fellow of West Bengal Academy of Science and Technology.
- Professor Swapnendu Bandyopadhyay, Department of Economics, received the Subir Chowdhury Visiting Fellowship from London School of Economics.
- Dr. Asim K. Karmakar, Department of Economics, was awarded the Dr. Radhakrishnan Gold Medal by the Global Economic Progress and Research Association, New Delhi.
- Professor Moinak Biswas, Department of Film Studies, was commissioned to make a

video installation for the 11th Shanghai Biennale. It is now preserved in the permanent collection of the Power Station of Art, Shanghai.

- Professor Anuradha Roy, Department of History, has been awarded ‘Best Researcher Prize’ 2017 by the Bauddha Dharmankur Sabha, Kolkata.
- Professor Tapan Sankar Bhattacharyya, Department of Sanskrit, received the ‘Vyasasri’ National Award from Maharshi Vyasdeb National Research Institute, Rourkela, Odisha.
- Professor Asis Mazumdar has been selected as the expert member of the National Steering Committee, Green Technology Watch Group (GTWG), Department of Science & Technology (DST), Government of India.
- Professor Pulok K. Mukherjee, School of Natural Product Studies, has been reappointed as an Editor of the *Journal of Ethnopharmacology*, a high impact journal in natural product research from Elsevier Science, USA.
- Professor Mrinal Kanti Naskar, Department of Electronics and Telecommunication Engineering, along with other five researchers, have been granted a US patent for their research on ‘Generic data compression for heart diagnosis.’
- Professor Iti Saha Misra, Department of Electronics and Telecommunication Engineering, along with another researcher has filed an application for an Indian patent in connection with their research on ‘Method and Apparatus for Optimal Target Channel Sequence for a Wireless Communication System.’
- Dr. Ranjan Ganguly, Department of Power Engineering, in association with four other researchers has filed a research disclosure at the Office of Technology Management of the University of Illinois in Chicago.
- Professor Shibaji Bandyopadhyay, former Dean of the Faculty of Engineering and Technology, has been selected as Director of the National Institute of Technology, Silchar.
- The Government of West Bengal awarded Shiksha Ratna (Best University Teacher Award) to Professor Rajat Acharyya (Economics, 2016), Professor Amitava Dutta (Power Engineering, 2017), Professor Biswajit Ghosh (School of Energy Studies, 2017) and Professor Mahua Sarkar (History, 2017).

Jadavpur University remains at the forefront of West Bengal’s University-Industry Partnership Programme. The University’s Industry Institute Partnership Cell – set up as early as 1995-96 – continues to provide consultancy services to public and private enterprises as well as the Government. This has enabled the University to generate an income of Rs. 15.62 crores in the financial year 2016-17. In recognition of our contribution to University-Partnership initiatives, Jadavpur University was chosen to host the 9th India Innovation Initiative on 16 November, 2017. It was sponsored by the Confederation of Indian Industries, Department of Science and Technology, and the All India Council of Technical Education to “scout for innovations, give regional and national platforms to the shortlisted innovators and assist them to commercialize their innovations.” Another instance of university-industry partnership is the Computer Aided Design Centre, which since 1986

has trained more than 7,500 industry professionals, students, and researchers in computer-aided design, geographic information systems, remote sensing, multimedia, and related areas.

The record of our Placement and Training Cell has been commendable, thanks to the dynamism of its Officer on Special Duty, the dedication of student volunteers, and the University-Industry Partnership Programme. During the period under consideration, 758 UG students and 96 PG students of the Engineering stream, 74 students of the Arts stream, and 27 students of the Science Stream were recruited through the Placement and Training Cell. Among the 116 concerns which participated in the campus recruitment programme were Microsoft, Bajaj Auto, Amazon, Yahoo, Maruti, Phillips, Tata Motors, HSBC, Hindustan Times, Larsen & Toubro, Samsung, Wipro, Infosys, Sunpharma, Tata Consultancy Services, and IBM. We are trying to overcome financial constraints so as to provide necessary infrastructure and make the Cell more effective. But we desperately need a full-time post of Special Officer for the Placement Cell. We eagerly await the Government's response on this matter.

The University administration is trying its best to fill up academic vacancies. During the year under review a total of 18 Assistant Professors (6 in Arts, 5 in Science, 5 in Engineering & Technology, and 2 in Interdisciplinary Studies, Law and Management), 9 Associate Professors (3 in Arts, 1 in Science, and 5 in Engineering & Technology), and 1 Professor in Arts have been recruited. 51 teachers have been promoted under the UGC Career Advancement Scheme. I am also happy to report that 128 Non-Teaching employees and 1 Officer have been recruited since the last Convocation. During the same period 76 Employees availed themselves of the Career Advancement Scheme.

THE UNIVERSITY AND GLOBAL ACADEMIC CONNECTIVITY

The University has become a part of the internationalisation of India's higher education.

- Ours is the only University in this part of the country to host the UGC Global Initiative of Academic Network (GIAN) Programme which enables us to welcome distinguished foreign scholars to interact with the University community. Till date the following Departments and Schools have participated in the programme: English, School of Cultural Texts and Records, Civil Engineering, Computer Science and Engineering, Comparative Literature, School of Media, Communication and Culture, Mechanical Engineering, and Film Studies.
- The JU-SYLFF programme – competently steered by Professor Joyashree Roy – provides unique opportunities for international exposure to post-graduate and research students of Social Science and Humanities Departments. As the first Indian university to be endowed with the Ryoichi Sasakawa Young Leaders Fellowship fund of \$1 million, Jadavpur University has successfully awarded 41 young talents showing leadership quality and academic excellence since 2003. JU-SYLFF Ph.D. fellows winning additional competitive grants under SYLFF Research Abroad Programmes are in the winning list of the SYLFF Leadership Initiative.

- The School of Natural Product Studies has been playing a lead role in the South Africa-India Science & Technology Co-operation for development of IKS lead programme through Department of Science and Technology (DST), Government of India with University of Free State, Bloemfontein, Republic of South Africa. Its Director, Professor Pulak Mukherjee, participated in the round-table at Durban that was held on 6 October 2017 to commemorate the 20th anniversary of the strategic partnership in science, technology and innovation between the Governments of South Africa and India. The School has to its credit of an edited Special Issue of the Journal of *Ethnopharmacology* on Ayurveda which is of the first of its kind promoting Indian traditional medicines.
- Dr. Tuhin Bhadra, Senior Research Fellow at the School of Oceanographic Studies, was awarded the Newton-Bhabha Fellowship for a three-month Ph.D. placement programme from June 1 to August 31 at the Institute for Energy System, University of Edinburgh, to work on ‘Estimation of freshwater flow necessary to reduce salinity in Sunderban for Sustainable Mangrove Ecology.’
- Ms. Isha Das has been awarded an IPCC Scholarship for two years at AZTI-Tecnalia, Marine Research Division, Spain to work on ‘Sustainable Hilsa Fishery in Bay of Bengal.’
- Dr. Tuhin Ghosh, Associate Professor of the School of Oceanographic Studies has been selected as the Coordinating Lead Author for the section on Sea Level Rise Implications for Low Lying Islands, Coasts and Communities of the IPCC Special Report on the *Ocean and Cryosphere in a Changing Climate*.
- Dr. Saikat Kumar Seth, Department of Physics, has been selected for the Science and Engineering Research Board Overseas Post-Doctoral Fellowship
- Dr. Gopal Chandra Shit, Department of Mathematics, has been selected for the Fulbright–Nehru Academic and Professional Excellence Fellowship.
- A group of faculty members from the University of Rhode Island, USA and Thailand visited our Centre for Advanced Research in Pharmaceutical Sciences for an academic exchange. Fourteen representatives and officials from French Universities visited the campus to explore possibilities for academic collaboration.
- The International Relations Department hosted a round-table discussion on aspects of current world politics led by Mr. Bruce Bucknell, the Hon’ble British Deputy High Commissioner in Kolkata on 22 March 2017. The same Department invited Mr. Craig Hall, the Hon’ble Consul General of the USA in Kolkata, to speak on ‘The US-India Relations’ on 12 July 2017. In collaboration with the Japanese Consulate in Kolkata, the International Relations Department also organized a lecture in Bengali by Professor Tomio Mizokami, Professor Emeritus of Osaka University of Foreign Studies and President of Kansai Japan-India Cultural Society, on 25 October 2017.
- Jadavpur University hosted the Fulbright-Hays Programme 2017 jointly with St. John’s University, Queens, USA, on a project entitled ‘Basic Bengali for Educators’, where 14 New York City-based public school teachers came to the

University for training from 8 July to 20 July 2017.

- Jadavpur University will be a part of Kolkata's French Consulate's 'Bonjour India 2017-18' initiative under whose auspices a group of multi-disciplinarians from our University will be associated with the 'House of the Moon' Project in Chandernagore. We will actively participate in the seven day 'co-creation workshop' scheduled to be held in January 2018 in Chandernagore, where our students will work with their French counterparts on the historicity, built environment, heritage restoration, and urban landscape of Chandernagore. Some of our students will also contribute to the preparation of measured drawings and assessment of the heritage building of the Chandernagore Registry Office in connection with its architectural conservation.
- The University joined the Bangladesh Deputy High Commission in Kolkata to arrange a seminar on 'Bangladesh Today' on September 18. Attendees included Mr. H.T. Imam, Hon'ble Political Affairs Advisor to the Hon'ble Prime Minister of Bangladesh; Hon'ble Mr. Mohammed Shahriar Alam, State Minister for Foreign Affairs of Bangladesh; His Excellency Mr. Syed Muazzem Ali, High Commissioner of Bangladesh in India; Professor Shafi Ahmed of Jahangirnagar University, Bangladesh; and Mr. Abed Khan, the editor of *Daily Jagoran*.
- Professor Asis Mazumdar jointly supervised a German doctoral degree candidate with Professor Martin Jekel. The degree was awarded by the Technical University of Berlin (TUB), Germany and Professor Mazumdar visited Germany by invitation of the TUB for the Ph.D viva-voce examination.
- Professor Amalesh Samanta of the Division of Microbiology and Biotechnology, Pharmaceutical Technology Department, is collaborating with Professor Sabine Flitsch, University of Manchester, on 'Public Health and Well-being' and 'High Value Manufacturing' in the context of India and the United Kingdom.
- The Erasmus programme offers a platform for exchange of students, administrative staff, and faculties between Jadavpur and European Universities like the University of Bologna and the Babes-Bolyai University. We are exploring possibilities of extending the scope of such academic exchanges with European institutions of higher learning.
- Jadavpur University was a nodal partner in the six-member consortium of Indian and European Universities funded by the European Union to the amount of 1 million Euros to execute Project E-QUAL. This was a critical intervention to enhance quality, access, and governance in undergraduate education in India. The central communications unit and website of the project were located at Jadavpur University, which took the lead in developing best practices and pedagogy in online and blended courses together with policy and outreach initiatives. The four-year Project E-QUAL was successfully completed this year in May 2017. I am happy to report that through an agreement signed with the MHRD, the course materials were directly adopted by the Ministry's own SWAYAM initiative. As a result, the output of Project E-QUAL is assured a permanent platform at the national level, and the Project has been officially welcomed as a SWAYAM partner.
- Funded by the UGC and the Norwegian Centre for International Cooperation in

Education, Jadavpur University and the University of Stavanger are conducting a collaborative project on sustainable energy from an interdisciplinary perspective. Currently in its third year, the project has enabled faculty mobility and joint workshops and seminars. Six international conference/journal papers and two books by Springer have been published this year under this collaboration, the most recent one being the jointly edited volume on *Sustainable Energy Technology and Policy: A Transformational Journey* by Professor Mohsen Assadi and Professor Sudipta De.

- To promote international academic collaboration, the University signed during the period under review 13 Memorandums of Understanding with such institutions of higher learning as the State University of New Jersey (USA), the University of Southampton (UK), University of East London (UK), the Jiangsu University (China), Yunnan Normal University (China), the Adam Mickiewicz University (Poland), the University of Free State (South Africa), Ming Chi University of Technology (Taiwan). Under the academic mobility programme we had the opportunity to welcome, among others, Professor Paul Robert Greenough (USA), Ms. Amrapali Maitra (USA), Ms. Maria-Daniela Pomohaci (Romania), Mr. Nico Till Robin Putz (Germany), Mr. Jona Vantard (Germany), Ms. Strieth Dorina Barbara (Germany), Mr. Damiano de Anna (Italy), and Dr. Marcin Teodor Steczek (Poland). The student exchange programme with Momoyama Gakuin University at Osaka, Japan provides an excellent opportunity for undergraduate and masters students from our Social Science and Humanities Departments to take up crediting courses with funding support. 25 students have participated over the years so far.
- The University welcomes foreign students. We now have 99 foreign students on campus. 64 of them – from the USA, Germany, Maldives, Sudan, South Korea, Zambia, Ethiopia, Angola, Tanzania, Sri Lanka, Nepal, Bhutan and Bangladesh – are in various degree courses of the University; 24 among them are enrolled in Diploma/Certificate courses in Bengali and Hindi, while 11 from Japan are enrolled in the Short Term Certificate Course in Bengali. I am happy to report that the University has constructed a new hostel in South Calcutta for foreign students out of a grant received from the UGC. The University now hopes to admit more foreign students in the coming days.

THE UNIVERSITY AND THE COMMUNITY

I am happy to report that the University encourages a thorough blending of curricular and extra- or co-curricular activities. Despite inadequate infrastructure and training facilities, my students have kept the University flag flying in national championships. Our chess team (Men and Women) won the 4th position, the table-tennis team (Women) won the 3rd position in the East Zone Inter-University Sports Tournament, and both the teams qualified in the All-India Competition. Sweta Brahmachari won the gold medal in indoor rowing; she and Shireen Ghosh won the silver medal in double skull; Sweta and Shireen joined Asmita Ray and Semanti Choudhury to collect the bronze medal in fours in the 2nd BRC Inter-College Rowing Championship, 2017. Shreyaa Brahmachari also won the gold medal in Rowing (W) Double Scull at the 2nd Inter-state Challengers Sprint National Championship 2017;

Shramana Saha received the gold medal in Rowing (W) Fours at the 2nd Interstate Challengers Sprint National Rowing Championship 2017; Sweta Brahmachari got the bronze medal in the Amateur Rowing Association of East (ARAE) Open Women IX at the 75th ARAE FEARA Regatta, Madras 2017; Swagata Dey represented West Bengal in the 67th Senior National Basketball Championship 2017. The University's women's table-tennis team was the winner and the men's table-tennis team the runners up in the inter-college sports festival Xceleration 16 organized by St. Xavier's College. At the Inter-College Invitation Table Tennis Tournament (2016) arranged by our Sports Board, Jadavpur girls were the winners and the boys were runners-up. Our men's team became runners-up in the Invitation Blind Cricket Match 2017 organised by Rabindra Bharati University. The University's men's cricket team moved to the quarter-final in the Inter-University T-20 Cricket Tournament 2016-17 organized by North Bengal University. It also reached the semi-final in the Ajoy Ghosh Memorial Trophy Cricket Tournament 2016-17 and the quarter-final in the P. Sen Memorial Invitation Trophy Cricket Tournament 2016-17. Two of our cricketers were part of the Combined University XI Team. The women's badminton team won the third position in the East Zone Inter-University Badminton (W) Tournament 2017-18 and has qualified for the All-India competition. The men's chess team was the runners-up in the East Zone Inter-University Chess (M) Championship 2017-18 and won the fourth position in the All-India Inter-Zonal Inter-University Chess (M) Championship 2017-18.

I congratulate the Sports Board for efficiently fulfilling its mandate in the midst of trying circumstances. The University has entered into an Agreement with the Cricket Association of Bengal for renovation of its playground, creation of an air-conditioned gymnasium, installation of lights at the small game arena in the main campus, and upgrading of sports facilities in its Salt Lake campus. Once this work is completed my students should be in a better position to improve their skills.

The University maintains a constructive relationship with society at large through its extension activities. The Adult, Continuing Education and Extension Department conducts sewing and tailoring classes for street children and rural underprivileged women of Kalikapur Gram Panchayat Nos. I and II and Pratapnagar Gram Panchayat. Our National Service Scheme (NSS) student volunteer Devapriti Jana (International Relations P.G. II) participated in the International Youth Exchange Programme in the Republic of China organized by the Ministry of Youth Affairs and Sports, Government of India. Ten NSS student volunteers have been selected for the Adventure Programme at Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports (ABVIMAS) at Hatkoti, Himachal Pradesh. Milind Khatiwada (Comparative Literature U.G. II) was selected for the Republic Day camp at New Delhi. Raju Sardar (Philosophy U.G. II), Tanmoy Mallik (Philosophy U.G. II), Sandeep Kumar (Chemical Engineering U.G. II), Latika Sardar (Bengali U.G. I) and Rima Talukder (Philosophy U.G. I) joined the Republic Day camp at Red Road, Kolkata. Sixteen of our NSS student volunteers participated at the National Integration camps at Bengaluru, Durg, and Bankura, and four student volunteers participated in the National Youth Festival at Rohtak, Haryana. As in previous years, the NSS unit held health and blood donation camps, value education and adult literacy workshops, drawing competitions, slum development, beautification and environment drives under the Swachh Bharat Mission, as well as Yoga Day. Our NSS volunteers collaborated with the Kolkata Police to introduce 'Sukanya', a

self-defense training programme for the University's female students. In the first phase of the scheme, 40 students will be given three months' training on elementary aspects of martial arts.

The Physical Education Department also continues to foster campus-society interface. It conducted a village study for four days in the Susunia hills and neighbouring villages; it organized a rural camp for seven days to promote physical education culture. To strengthen bonding among students, the Department celebrated International Yoga Day on 21 June, Independence Day on 15 August, National Sports Day on 29 August, Durga Puja Parikrama, and an adventure sports camp.

With the UGC's financial support, nine faculty members and two officers were involved with the following outreach programmes on issues concerning broader social benefit:

- Dr. Avijit Bhowal (Chemical Engineering): 'Removal of dye in novel equipment from dye and bleaching units in different districts of West Bengal'
- Dr. Sanjib Nag (Architecture): 'Urban development of Nodal Areas of a city'
- Dr. Poulomi Roy (Economics): 'Exposure study of biomass fuel in rural West Bengal and cost of associated respiratory infection on household'
- Dr. Sadhan Chakraborty (Philosophy): 'Activity based learning enhancement programme'
- Dr. Joydeep Mukherjee (School of Environmental Studies): 'Utilisation of slaughterhouse wastes for the production of organic fertiliser'
- Dr. Paramita Chakravarti (English): 'Combating sexual harassment in higher education campus: workshop on gender and masculinity'
- Dr. Sunipa Mandal (Geology): 'Application of GIS techniques in assessing risk of avulsion and merger of rivers in the lesser and sub-Himalayan zone in the area of Darjeeling Himalaya, North Bengal'
- Dr. Sisir Kanti Nag (Geology): 'Assessment of ground water quality in Kashipur Block, Purulia Districts, West Bengal'
- Dr. Babar Ali Shah (Geology): 'Arsenic contamination in groundwater from western part of the Bhagirathi River, Bengal Delta, West Bengal'
- Dr. Bappa Mullick (Director of Youth Welfare): 'A comprehensive analysis of health and fitness of school-going children in Kolkata and its adjoining districts'
- Dr. Aparup Konar (Director of Physical Instruction): 'Assessment of training and detraining effect in modulating the specific immune response'

The University Clubs create opportunities for students to remain active in co-curricular and extra-curricular activities.

- A 25-member contingent of University students participated at the 32nd AIU Inter-University Youth Festival at Vidyasagar University and Shivaji University respectively for the Zonals and Nationals. Sagarika Das and Bijetri Pathak won first

positions respectively in poster-making and collaging.

- The highly successful Jadavpur University Photo Fest – jointly presented by Victoria Memorial, Goethe Institute, and the Jadavpur University Photographic Club – was a first-of-its-kind initiative to understand photography in the context of contemporary visual art practices, actuating alternative discourse and inspiring fresh experiments through open-air exhibitions, curated projections, panel discussions, workshops, and more. The theme of the event was ‘Home’ and was attended by Mr. Rahab Allana, Mr. Boris Eldagsen, Mr. Protick Sarker, and Mr. Jordy Pizarro among others.
- To promote multi-linguistics, the Jadavpur University Art and Literary Society organized for the first time a Hindi Hasya Kavi Sammelan. The Debating Society organized its annual freshers’ debate Vox-Pop 2017.
- The Jadavpur University Mountaineering and Hiking Club organized an expedition to Mt. Menthosa (6443 m.), the second-highest peak in the Lahul-Spiti province of Himachal Pradesh.
- The Hult Prize, perhaps the world’s most significant student social entrepreneurship competition, saw over 1000 universities from 130 countries vying for its \$1 million start-up capital prize-money. Jadavpur University participated in the Hult Prize Challenge at the campus level and advanced to the regional level competition which was held at Shanghai. Digonto Chakravarty, Shuvayan Datta, Shrirupa Bhattacharya, and Arnab Sur had proposed to create a portal for refugees that would provide them with information about various services.
- The first TEDxJU session was held at Jadavpur University under the supervision of Professor Sudipto Dey in January 2017. Twelve eminent speakers from a spectrum of professions ranging from physics to photography delivered their lectures. The speakers included Scottish historian and author William Dalrymple, British journalist Anita Anand, and the founder of Bandhan Bank Chandrashekhar Ghosh. The TEDx initiative embodied the spirit of free thinking and creativity which the University always seeks to sustain.
- Tech Talk, jointly organized by the JU Journal and Science Club focused on pressing social issues and scientific breakthroughs in an attempt to expose students to new ideas. In its two sessions the speakers explored topics ranging from data analytics and automobiles to ‘the Science behind Love’. In its August 2017 Tech Talk session, Mr. Debarghya Das, a software engineer from Google, and Professor Swapam Bhattacharya, an alumnus of the Computer Science and Engineering Department, engaged in a motivational dialogue with the students.
- This year the British Deputy High Commission entrusted Jadavpur University to host their flagship Annual Debating event ‘The Great Britain Debate 2017’. Our Debating Society and the JU E-Cell won wide acclaim for organizing the event. Mr. Bruce Bucknell, the British Deputy High Commissioner, was present on the last day to give away the prizes.
- An Entrepreneurship Awareness Day was held in October 2017. Dr. Dipak Roy, an alumni of ETCE and a highly successful entrepreneur settled in Canada, and Mr. Arijit

Bhattacharyya, a city virtual gaming entrepreneur, were the speakers.

- The University Art and Literary Society published the bi-annual edition of *Campus News* and took the lead in organising the first ever FRESHERS 2017, an event hosted jointly by almost all University clubs.
- The University Science Club continued to impart training to the underprivileged pre-secondary students of N.K. Paul Adarsha Vidyalaya.
- Our students have excelled in other academic activities. Nivrita Ghosh of the Geography Department secured the first position in INTROMET17 held at SAC Ahmedabad on 7 November 2017.
- My students have brought glory to the University through their oratory and debating skills in various competitions. The University became the National Champion in the 13th National Youth Parliament Universities and Colleges for the year 2016-17 organised by the Ministry of Parliamentary Affairs, Government of India. Our students won the Delegation Awards in the Model United Nations (MUN) sessions at Ravenshaw University (Cuttack), KIIT (Bhubaneswar), Shri Ramachandra University (Chennai), and Bhawanipore Education Society College (Kolkata). This year the University's Debating Society hosted a MUN which attracted about 600 student participants from across the country including delegates from Bangladesh and Sri Lanka. MUN Connect India included the JU-MUN in their Hall of Fame. The University was the runners-up in the 2017 'The Great Britain Debate'.

Within its limited means the University tries to provide some of basic amenities to our community. The Day Care Centre for children, established during the XIth Plan period, extends support to our employees. The Centre organizes activities like recitation, singing, painting, dance, plays, story-reading, creative writing, and sports. It has also published a magazine, *Kochi Kachader Haat*. We are examining possibilities of expanding the space of the Centre to accommodate more children.

The University runs a medical unit, although in a rudimentary form. I do feel the immediate need to upgrade this unit, and we are studying various proposals. During the 2018 Convocation the Vice-Chancellor's Address will hopefully be able to report on a revamped medical unit in the campus. Meanwhile, we have negotiated an arrangement with the K.P.C. Medical College and Hospital for the Main Campus and the AMRI, Salt Lake, for the Second Campus to attend urgent medical calls. The University's Centre for Counselling Services and Studies in Self-Development continues to provide support to the students and staff.

The University abides by the principle of promoting academic excellence in consonance with the principle of equity and access. We have always tried to ensure that economic constraints do not impede the career of students. During the last year the University thus granted full-free studentship to 571 students and half-free studentship to 167 students. One-time financial assistance ranging from Rs. 2,000 to Rs. 6,000 was granted to 143 students to tide them over during economic difficulties. Sixteen girl students are availing of the Udayan

Shalini Fellowship to enable them to continue their studies.

We have 10 men's hostels and four women's hostels accommodating 1290 male and 610 female students. The existing hostel infrastructure is grossly inadequate to meet the rising demand for student accommodation. We should be able to partly address this issue once the construction of two floors in the New Boys' Hostel and another floor in the New Girls' Hostel in the main campus is completed. We thank the UGC for extending financial support for undertaking this construction work. It remains a matter of deep regret that my students are deprived of the hostel facilities that their peers in central universities enjoy. However, I thank my students for helping the university authorities to make optimum utilization of the existing hostel facilities and ensuring the implementation of hostel rules.

Extension of academic programmes is severely constrained by the lack of adequate space. The construction of the 4th floor of Nazrul Bhavan and Meghnad Saha Bhavan, the 2nd floor of Life Science and Biotechnology Department, the 2nd floor of the University Press Building, the 2nd floor of Physical Education Department Building, the 5th and 6th floors of Subarna Jayanti Bhavan, the 4th floor of ETCE Department, and the 5th floor of SMCC Building may meet the problem of space shortage in the short run. Construction work of a new Technology Bhavan in the main campus is also progressing rapidly, the completion of which will enable the University to effectively address the space issue for academic departments. We propose to shortly install lifts at the Salt Lake campus Boys' Hostel, Food Technology building, Nazrul Bhavan, Meghnad Saha Bhavan, and Subarna Jayanti Bhavan. It is, however, deeply unfortunate that the buildings in our campus remain disability unfriendly. We need to meet this challenge with a sense of urgency and are eagerly awaiting the response of the Central Government to a request for financial assistance that has been submitted by the University's Centre for Disability and Rehabilitation.

The alumni community remains the lifeblood of any educational institution. It binds together the past, present, and future of an institution. Fortunately, our alumni remain alive to the needs of their *alma mater*. As in previous years, the Alumni Association located in the main campus offered monetary assistance to disadvantaged students during the period under consideration. A sum of Rs. 47.1 lakhs was spent to provide relief to 631 needy students. In my last year's Address I mentioned our plan to foster a closer relationship with the Alumni Chapters in both India and abroad. This has yielded encouraging results. I made an appeal to our distinguished alumni for donations to enable us to mobilize the minimum required sum of Rs. 25 lakhs to enable us to apply to the Ministry of Human Resource Development, Government of India, for the grant of the status of Institute of Eminence. I am happy to report that the response has been overwhelming, and we have been able to apply for the particular status. We look forward to receiving inputs from our alumni to enrich the University's profile. On the occasion of the 60th anniversary of the University an Alumni Day was held on 20 February 2017 where we felicitated a distinguished alumnus for each of the Departments and Schools. I have suggested to my colleagues that we designate one day in the calendar year as the Alumni Day to create a platform for interaction between the past and present students of this centre for learning.

Like all state universities this University too suffers from financial constraints. This is a

reflection of the discriminatory nature of the UGC funding mechanism which allocates 65% of its annual budget for only 47 central universities while the 375 state universities have to remain content with the remaining 35% of the UGC budget. Not surprisingly, out of our University's annual receipts of Rs.291.56 crores in 2016-17, the State Government's share represented as much as 67.6%, while the UGC's contribution was merely 19.5%. I am happy to report that during the same period the University itself was able to generate an amount of 15.95 crores, signifying 5.47% of the budget outlay. Needless to say, without the necessary financial support from the State Government the University would not have been able to sustain its continuous quest for academic excellence. On my own behalf of and on behalf of the University community I express my sincere gratitude to the State Government for this support. I am sure the University will continue to receive sufficient financial assistance from the State Government in the coming days.

THE UNIVERSITY AND THE CHALLENGE OF INDIA'S HIGHER EDUCATION

India's higher education – representing the world's second largest higher education system with about 760 universities, 38,000 colleges, and 3.4 crore students – is poised at the brink of a transformative period. We are eagerly awaiting the publication of the New Education Policy. We hope that the new directions will address such entrenched challenges of our higher education system as balancing expansion, especially of the private sector, with excellence, equity and access, rectifying the disparity between central and state universities, undoing the geographical imbalance in the spread of higher education, clearly defining the role of regulatory bodies, guaranteeing the academic autonomy of universities, enhancing the national expenditure on education to reach the designated goal of 6% of the GDP, and giving due cognizance to political federalism and socio-cultural pluralism. I have had occasion to dwell on these issues elsewhere and also in my submissions during earlier Convocations. Today I would like to take advantage of this august gathering to share some thoughts on three issues that tend to dominate the latest official discourses on our higher education: digital education, internationalisation of higher education, and employability of students.

The increasing use of Information and Communication Technology (ICT) has certainly revolutionized the contours of higher education by making it more accessible and broad-based. But a predominant reliance on ICT for higher education runs the risk of striking at the root of the Humboldtian concept of university as a 'knowledge enterprise' which has shaped our university system. In this paradigm of higher education the teachers are required to play a seminal role through academic engagement with students and fostering among them a critical mind. But a technology-driven education system can disrupt the 'agency of the teacher'. Subordination of the teaching-learning process to technology is poised to create new systems of controlling university education through 'technology and market', adversely affecting the 'dialogical nature' of teaching-learning process. (Sudhanshu Bhusan, "Universities in India: What Constitutes New Direction" in *University News* 55(05): Jan.30-Feb.05,2017) Recent researchers have identified two forms of knowledge: explicit

knowledge, which is expressed through printed and visual forms, and tacit knowledge, or what people have in their minds whose value they may not realize or even be aware of. While technology can codify and commoditize the first form of knowledge, it cannot do so in the case of tacit knowledge whose pursuit relies on a teaching-learning process based on structured reasoning and thoughtful deductions. But the notion of liberal education encompasses both forms of knowledge, the pursuit of which requires that education, as Martha Nussbaum aptly remarks:

... should be Socratic, committed to the activation of each student's independent mind and to the production of a community that can genuinely reason, together about a problem not simply trade claims and counterclaims. (Martha Nussbaum, *Cultivating Humanity: A Classical Defence of Reform in Liberal Education*, Cambridge, MA: Harvard University Press, 1997, p.19)

Besides, serious apprehensions have been raised about whether a homogenized technology-based education will be able to address the varying needs of the diverse and stratified student population of our country that is marked by different caste, class, ethnic, and religious identities. We perhaps need to realize that technology may be an effective medium but cannot be an end in itself. It is imperative to develop pedagogies that can integrate technologies with teacher-centric classroom practices. A predominant reliance of education on technology runs the risk of undermining the natural creativity of the human mind through the "twin forces of economic and technological rationality" (James Kariuki Njenga and Louis Cyril Henry Fourie, "The myths about e-learning in higher education" in *British Journal of Educational Technology* 41, no. 2(2010): 199-212), a danger we need to be aware of as our country moves into the digital age. Such a transition should not jeopardize education's real goal, as Albert Einstein reminded us, of training "the mind to think".

The other buzzword in current discourses on higher education in India is internationalisation of higher education. India has a great tradition of internationalism in higher education going back more than 2,000 years, as reflected in the functioning of Takshashila and Nalanda. But the notion of internationalisation that we discuss today is rooted in India's acceptance of education as a service sector in the GATTs regime, an inherent implication of which is throwing open the doors of our higher education to foreign providers. But, as the former UGC Chairman Professor Yash Pal warned us, to get Harvard or MIT or Stanford or Oxford to India should not really be "a brick and mortar question". A foreign campus imported to our country, he cautioned, would not automatically enable us to imbibe the academic culture and environment that have been developed by world class universities through ages. This particular caution needs to be given proper attention as we propose to welcome foreign providers of higher learning on our soil. Apprehension has been also voiced that foreign universities situated on the lower rung in their own countries may be primarily interested in exploiting the vast Indian market. Their focus will essentially be market-oriented, will have a cascading effect on the pursuit of holistic knowledge, and further entrench the existing regional imbalance in the spread of higher education.

Nevertheless, India cannot ignore the pressure to globalise its higher education sector. I argue that for a country in transition like India the process of internationalisation of higher education should start with enhancement of international connectivity instead of abruptly

opening the gates to campuses of any and every foreign university. In this context India presents unique opportunities for transnational partnerships through multifaceted collaborations between Indian higher education institutions and their foreign counterparts based on an equal footing. We need to also take advantage of such Government of India schemes like GIAN (Global Initiative for Academic Networking) which enables select Indian universities like Jadavpur to invite foreign scholars on short-term assignments. At the same time we must ensure that Indian scholars take advantage of the UKERI Awards, the Newton-Bhabha Awards, the British Academy Grants, the British Council Grants, the Charles Wallace Grants, the Leverhume Grants, the Nuffield Foundation Grants, Wellcome Trust Grants for Indo-British collaborative research; the Obama-Singh initiative grants, the Fulbright grant and private foundation grants for Indo-American academic cooperation; the Erasmus Mundus and European Commission grants for Indo-European endeavours; the Humboldt, DAAD and other German foundation grants for Indo-German teamwork; the Endeavour Awards and Japan Foundation grants for respectively Indo-Australian and Indo-Japanese academic mobility. At the same time the Government of India should revive schemes like National Scholarship for Study Abroad to enable young researchers to study abroad. Effective utilisation of such schemes instead of indiscriminate entry of foreign education providers can enable India, currently in a stage of transition, to effectively register her presence on the map of global higher education.

The other issue dominating official concerns is to make the products of our higher education employable. The matter has assumed particular seriousness in view of a Confederation of Indian Industries' Report that only 25% of technical graduates and 10-15% of other graduates are 'instantly employable'. This is alarming since the country's under-35 population will account for one-fourth of the global workforce by 2020. To address the issue of employability we need to strengthen the synergy between industry and university and adopt new schemes like Skill Development Programme or Make in India Programme. But it still remains unclear if Skill Development Programmes are intended to be mere appendages of the main disciplines or to be developed as a vocational stream beginning at the secondary level and ending as a fifth stream in addition to Arts, Science, Engineering, and Commerce in the university's teaching-learning process with sufficient opportunities for vertical and horizontal student mobility. At the same time, the captains of industry are required to significantly fund Research and Development (R&D) so that inventions can become innovations. It is a matter of deep regret that India's spending in R&D has not yet crossed 1% of the GDP, and that only 25% of this spending comes from the private sector at a time when private capital funding for R&D is 55% in the European Union, more than 67% in the USA, and more than 77% in Japan.

Nevertheless, I wish to stress the point that in our bid to make education employable we must not compromise the holistic and humanistic spirit of higher education. The goal of higher education cannot merely be the production of creators of national wealth. Instead, it should seek to create inclusive and critical citizens who can not only raise searching questions but suggest judicious ways of addressing them, a point repeatedly stressed by our country's illustrious forebearers. That is why Rabindranath Tagore envisaged the "highest aim" of education to be the "realization of the unity, but not uniformity", Swami Vivekananda

wanted education to be “the manifestation of the perfection of man”, Mahatma Gandhi considered real education as “an all-round drawing of the best in child and man in body, mind and spirit”, Aurobindo Ghosh spoke of “integral education”, Jawaharlal Nehru looked to education to impart “strength of character and the right outlook on life”, Sarvepalli Radhakrishnan felt that education should train us “to appreciate the supreme human virtues, and the simple decencies of life”, and A.P.J. Abdul Kalam searched for that learning which generated creativity and thinking. As we enter a transformative phase of our higher education, may we not forget such aspirations.

The Convocation is the happiest day for students who will be receiving their hard-earned and well-deserved degrees, certificates, medals, and prizes. On my own behalf and on behalf of the entire University community I convey heartiest congratulations to them. I am sure that, fortified by the excellent education imparted to them by the country’s foremost University and moulded by the rich nationalist and democratic legacy of their institution, my students will be joining life outside the campus with confidence and be able to successfully meet all encounters and challenges that are to come. I am confident that my graduating students will fulfill their national and social obligations, remembering what Aurobindo Ghosh reminded the students of the Bengal National College, on 23 August 1907:

What we want here is not merely to give you a little information, not merely to open to you careers for earning a livelihood, but to build up sons (and daughters) for the motherland to work and suffer for her. (*Four Memorable Speeches Revealing the Ideals and Aspirations of the National Council of Education, Bengal*, Kolkata: NCE Bengal, July 2012, p.22)

Honourable Chancellor Sir, since assuming office amidst difficult circumstances I have completed two and a half years of my four-year tenure during which I have been fortunate in receiving your valuable guidance, the government’s help, and the commitment and encouragement of my academic colleagues, my two Pro Vice-Chancellors, my Registrar and officers, and my employees. I am proud of my students for being creative and argumentative, always striving to strike a fine balance between academic excellence and social awareness. Honourable Chancellor Sir, I remain conscious of the challenges of governing this premier seat of learning. Allow me to repeat what I have stated on the occasion of the two earlier Convocations: I would not hesitate to step down if I feel that I am unable to meet the demands of governance, being mindful of Albert Einstein’s belief that:

Anyone who has never made a mistake has never tried anything new.

Thank you, and I wish you a happy, peaceful, and fruitful 2018.

24 December 2017

Suranjan Das.
Vice-Chancellor

★★★

SECTION A
[As on 31.03.2019]

ADMINISTRATIVE PROFILE

GENERAL INFORMATION OF JADAVPUR UNIVERSITY

Jadavpur University has a long and distinguished heritage. The years 1905-06 are memorable in the history of Bengal and indeed in that of India. The attempt by the Government to partition Bengal led to a countrywide agitation and an intense nationalist movement which, though political at the outset, had important economic and cultural implications. The economic aspect of the movement found expression in the production and use of *swadeshi* goods. The cultural impact was felt in the regeneration of Indian art and music, but most of all in a reaction against the prevalent system of education and the devising of an alternative planned entirely on national lines and directed towards serving the national interest.

It was in this way that the National Council of Education, Bengal, was started in 1906 'to impart education—literary and scientific as well as technical and professional—on national lines and exclusively under national control, not in opposition to, but standing apart from the existing system of primary, secondary and collegiate education, attaching special importance to a knowledge of the country, its literature, history and philosophy, and designed to incorporate the best oriental ideals of life and thought, the best assimilable ideals of the West and inspire students with the genuine love for and desire to serve the country.'

The foundation of the National Council of Education, Bengal, was made possible by the munificence of three generous donors, Raja Subodh Chandra Vasu Mallik, Brojendra Kishore Roy Chowdhury of Gouripur and Maharaja Surya Kanta Acharyya Chowdhury Bahadur of Mymensingh. The first President of the National Council of Education was Sir Rash Behari Ghose, and in its early days, nearly all notable figures of the time were associated with it – some of whom, such as Rabindranath Tagore and Aurobindo Ghosh, later won international recognition.

In 1906, the year of the foundation of the National Council of Education, Bengal, another association was set up known as the Society for the Promotion of Technical Education in Bengal, also under the presidentship of Sir Rash Behari Ghose, with the aim of imparting scientific and technical education to the people of India to further industrial progress. Under the auspices of this Society, the Bengal Technical Institution (later known as the College of Engineering and Technology, Bengal) was started, financed mainly by Sir Taraknath Palit. In 1910, the Society for the Promotion of Technical Education in Bengal was amalgamated with the National Council of Education, Bengal.

The National Council of Education, Bengal, started with courses in Arts, Science and Technology courses, but finding the public demand for the latter more insistent, the Council came to devote almost all its resources to technical education through its College of Engineering and Technology.

In 1921, the Council had the good fortune to receive a donation of about 13 lakhs of rupees under the will of Sir Rash Behari Ghose. This bequest enabled the Council in 1924 to construct a number of buildings and workshops on its present site at Jadavpur. Besides the donations and endowments of the founders mentioned above, the Council also received a sum of about 10 lakhs of rupees as donations from various other persons. The present site itself is a gift of the Corporation of Calcutta, which leased out 64 acres of land to the Council at a nominal rent.

At the time of Independence in 1947, the College of Engineering and Technology, Bengal, was virtually functioning as a university. In view of this fact, and in order that the degree of the National

Council of Education, Bengal, might receive statutory recognition, the Government of West Bengal with the concurrence of the Government of India enacted the necessary legislation for the establishment of a University at Jadavpur under the name of JADAVPUR UNIVERSITY, which started life on 24 December 1955.

A new Jadavpur University Act was passed in 1981. It aimed 'to reconstitute the Jadavpur University to enable it to function more efficiently as a University encouraging and providing for instruction, teaching, training and research in various branches of learning and courses of study, promoting advancement and dissemination of knowledge and learning, and extending higher education to meet the growing needs of society and to make the constitution of various authorities or bodies of the University more democratic, consistent with the objectives of the National Council of Education, Bengal and the Dawn Society.'

FOUNDERS

We recall with pride and gratitude the names of the great men who conceived of, established and nurtured the National Council of Education, Bengal, the precursor to the University.

- Tarak Nath Palit (1831-1914)
- Sir Gooroodas Banerji (1844-1918)
- Sir Rash Behari Ghose (1845-1921)
- Basanta Kumar Basu (1850-1935)
- Surya Kanta Acharyya Chowdhury (1851-1908)
- Gopal Chandra Sinha (1852-1926)
- Haradaya Nag (1853-1942)
- Byomkesh Chakravarti (1855-1929)
- Promatho Nath Bose (1855-1935)
- Sir Ashutosh Chaudhury (1860-1924)
- Acharya Prafulla Chandra Roy (1861-1944)
- Acharya Satish Chandra Mukhopadhyay (1865-1948)
- Satyananda Basu (1866-1948)
- Hirendranath Dutta (1868-1942)
- Sakharam Ganesh Deuskar (1869-1912)
- Aurobindo Ghosh (1872-1950)
- Abdul Rasul (1872-1917)
- Brojendra Kishore Roy Chowdhury (1874-1957)
- Raja Subodh Chandra Vasu Mallik (1879-1920)
- Bidhan Chandra Roy (1882-1962)
- Benoy Kumar Sarkar (1887-1949)

CHANCELLORS/PRESIDENTS

- Bidhan Chandra Roy (24.12.1955-1.7.1962)
- Triguna Sen (2.7.1962-24.10.1962)
- Satish Chandra Bhattacharyya (4.6.1967-24.12.1967)
- Arun Kumar Mukherjee (25.12.1967-6.12.1969)
- Triguna Sen (7.12.1969-25.4.1970)
- Sudhir Chandra Chakraborty (10.4.1971-20.12.1971)

STATE GOVERNORS AS CHANCELLORS (EX-OFFICIO)

- Anthony Lancelot Dias (21.12.1971-5.11.1977)

Annual Report 2019-20

- Sankar Prasad Mitra (10.9.1974-5.10.1974);
[officiated during absence on leave of Anthony Lancelot Dias]
- Tribhuban Narayan Singh (6.11.1977-11.9.1981)
- Bhairab Dutta Pande (12.9.1981-9.10.1983)
- Anant Prasad Sharma (10.10.1983-15.8.1984)
- Satish Chandra (Officiating, 16.8.1984-30.9.1984)
- Uma Sankar Dikshit (1.10.1984-12.8.1986)
- Saiyid Nurul Hasan (12.8.1986-1.3.1989)
- T. V. Rajeswar (3.3.1989-6.2.1990)
- Saiyid Nurul Hasan (7.2.1990-13.7.1993)
- K. V. Raghunath Reddy (14.7.1993-23.2.1998)
- A. R. Kidwai (24.2.1998-18.5.1999)
- Shyamal Kumar Sen (Officiating, 22.5.1999-3.12.1999)
- Viren J. Shah (4.12.1999-13.12.2004)
- Gopal Krishna Gandhi (14.12.2004-14.12.2009)
- Devanand Konwar (Officiating, 14.12.2009-24.01.2010)
- M. K. Narayanan (24.01.2010-30.06.2014)
- D.Y. Patil (03.07.2014-17.07.2014)
- Keshari Nath Tripathi (24.07.2014-Continuing)

VICE CHANCELLORS

- Triguna Sen (24.12.1955-31.7.1966, Rector/Vice Chancellor)
- Hem Chandra Guha (1.8.1966-31.7.1970)
- Gopal Chandra Sen (Officiating, 1.8.1970-30.12.1970)
- Anil Kumar Majumdar (1.1.1971-15.8.1971)
- Arabinda Nath Basu (16.8.1971-20.11.1979)
- Manindra Mohan Chakrabarty (21.11.1979-31.8.1985)
- Santosh Kumar Sarkar (1.9.1985-28.2.1986)
- Sankar Kumar Sen (1.3.1986-12.4.1991)
- Ajit Kumar Pal (Officiating, 13.4.1991-5.8.1991)
- Pratip Kumar Mukherjee (6.8.1991-31.12.1993)
- Subodh Chandra Som (31.12.1993-29.6.1998)
- Ashok Nath Basu (29.6.1998-29.06.2006)
- Shyamal Kanti Sanyal (30.06.06-14.10.2007)
- Pradip Narayan Ghosh (15.10.07-14.04.2012)
- Abhijit Chakrabarti (15.04.2012-31.07.2012)
- Souvik Bhattacharyya (1.08.2012-27.10.2013)
- Abhijit Chakrabarti (28.10.2013 : for 6 months
28.04.2014 : for 6 months
10.10.2014 - 18.01.2015)
- Ashish S. Verma (Officiating, 19.01.2015 - 15.07.2015)
- Suranjan Das (16.07.2015 - Continuing)

REGISTRARS

- P. C. V. Mallik (1955-30.6.73)
- A. K. Gupta (1.7.73-1.6.88)

Annual Report 2019-20

- B. Banerjea (26.8.88-31.10.97)
- R. Bandyopadhyay (27.12.97-31.08.2008)
- S. C. Chakraborty (Officiating, 1.09.2008-19.01.2009)
- P. K. Ghosh (20.01.2009-31.08.2017)
- P. P. Lahiri (Officiating, w.e.f. 01.09.2017 - for 6 months)
- Professor Chiranjib Bhattacharjee (Acting, w.e.f. 05.03.2018 for 6 months & w.e.f. 19.09.2018)
- Dr. Pradip Kr. Ghosh (Acting, w.e.f. 05.09.2018)
- Dr. Snehamanju Basu (w.e.f. 05.11.2018)

THE CAMPUS

The University stands on 60 acres of land on 188 Raja Subodh Chandra Mallik Road at Jadavpur in South Kolkata (apart from its new 7.6 acre adjacent new campus). It is 8 km by rail from Sealdah Station, 15 km by road from Howrah Station, 25 km by road from Netaji Subhas Chandra Bose International Airport, and 3 km by road from the Metro Railway Terminus at Tollygunge. The campus is close to Jadavpur Railway Station, and is approachable by public transport from all parts of Kolkata.

Various other research and academic institutions have grown up around the University, creating a belt of scientific and academic activity. Among these centres are the Indian Institute of Chemical Biology, the Central Glass and Ceramic Research Institute (both CSIR laboratories), the Indian Association for the Cultivation of Science, the academic complex of the National Council of Education, Bengal, the Regional Institute of Printing Technology, the Acharya P. C. Ray Polytechnic, and other organizations of repute. The campus itself houses the Department of Electronics Accredited Computer Courses (DOEACC) Centre and the headquarters of the Indian Institute of Chemical Engineers.

SECOND CAMPUS

The rapid growth of the University created a demand for more space. The Government of West Bengal granted the University 21.3 acres of land at Block IB, Plot No.8, Bidhan Nagar (Salt Lake City), Kolkata 700 098, 13 km away from the main campus at Jadavpur. Here, the University plans to promote an area of 5 lakh sq ft in the form of a building complex to accommodate various departments, as well as an administrative office, seminar halls, staff quarters etc. A library, hostel and computer centre have already come up at the site. At present, the following departments function from the Second Campus: Construction Engineering, Information Technology, Instrumentation Engineering, Power Engineering and Printing Engineering. The campus has a well-equipped gymnasium and a cricket ground that hosts state-level tournaments. The Eastern Regional Office of the UGC and the Inter-University Consortium for Atomic Energy are also located on this campus.

WEST ANNEX CAMPUS

National Instruments Limited (NIL) was a Central Public Sector Enterprise under the Ministry of Heavy Industries and Public Enterprises, Govt. of India. NIL was engaged in the field of sophisticated Optical, Opto-Mechanical and Opto-Electronics Instruments manufacturing and maintenance and in the year 1992 it was referred to BIFR (Board of Industrial and Financial Reconstruction) under section 15(1) of the Sick Industrial Companies Act, 1985 as a sick industry.

The Jadavpur University and the University of Calcutta expressed interest in taking over the assets, liabilities and manpower of NIL for further expansion of their academic activities. Government of West Bengal decided in favour of Jadavpur University in view of close proximity of its main campus to NIL.

A meeting of all the stakeholders of the company, the representatives of the Govt. of India, Govt. of West Bengal, Regional Provident Fund Commissioner, Jadavpur University and workers/officers Union/

Annual Report 2019-20

Association was held on 24.06.2005 to consider the proposal of taking over assets, liabilities and manpower of NIL.

BIFR, based on the draft scheme submitted by the operating agent, the State Bank of India, and an affidavit submitted by the Jadavpur University, prepared a scheme for revival of the sick company, the NIL, which included transfer of assets and liabilities of NIL along with transfer of existing employees with effect from 01.04.2007 in favour of Jadavpur University for utilization of the company's infrastructure for R&D purpose of the JU and the Board approved the said scheme on 04.08.2008.

Accordingly, NIL was transferred to Jadavpur University by an agreement made between NIL and the JU on the basis of the direction of BIFR, G.O.I and Govt. of West Bengal on and from 01.01.2009.

The erstwhile NIL campus is now the third campus of the JU and is known as West Annex Campus of the University.

Jadavpur University with its strong research culture and experienced faculty has been associated with DRDO since 1970s. Notable contributions are in Control, Guidance, Fault Tolerance of Missile Systems and Information Security. A Multi-Institute Collaborative Directed Basic Research facility will be created as "Jagadish Chandra Bose Centre for Advanced Technology : A DRDO-JU Initiative" (JCBCAT) with generous funding from DRDO. This joint venture is envisioned to emerge as a centre of excellence in conducting scientific and applied research in directed areas of advanced technology for defence. The Centre will be located in part of the West Annex Campus (erstwhile National Instruments Ltd. Campus) of the University. The JCBCAT will involve all the universities, IITs and NITs and research institutes of the region as well as ISI and IISER as participating institutions.

The University has many plans for expansion in the new campus. For example, setting up a Business Incubator, an Institute of Management Studies, Tagore Research Centre etc. Classes of few of the new courses are already going on in the campus and few other new plans are still in the pipeline.

JURISDICTION

The local limits of jurisdiction of the University extend to a radius of three and a half kilometres from the place where the University has its administrative nucleus.

Further, statutory provisions have been made so that any college or institution situated beyond the statutory area may also apply to the University for affiliation or recognition of any course or courses of study leading to a degree, diploma or certificate. The University may, subject to such conditions and restrictions as it may, with the approval of the State Government, think fit to impose, affiliate to itself, or recognize the course or courses of study conducted by, such college or institution, and admit the latter to all privileges of the University.

The colleges and institutions currently affiliated to the University are: Institute of Business Management under the control of National Council of Education, Bengal, and J.D. Birla Institute of Home Science, Kolkata. Further, the following institutions have been recognized as those at which research may be conducted leading to the Ph.D. degree of the University: Saha Institute of Nuclear Physics; School of Tropical Medicine, Kolkata; VECC (Bhabha Atomic Research Centre), Kolkata; Indian Association for Cultivation of Science, Kolkata; Indian Institute of Chemical Biology; Central Glass and Ceramic Research Institute; Bose Institute; Indian Statistical Institute, Kolkata; Jute Technological Research Laboratory; Chittaranjan National Cancer Research Centre; S.N. Bose National Centre for Basic Sciences; All India Institute of Hygiene and Public Health.

EMBLEM

The University adopted for its seal and emblem a design of three lamps encircled in lotus petals, executed under the direction of Nandalal Bose (1883-1966). The lamp represents knowledge, while the three flames are emblematic of intellectual training, integration of emotion, and imagination and spiritual development. The petals in the periphery represent philosophy, the fine arts and culture.

FEATURES

Jadavpur University is primarily a unitary teaching and research university, grouped into the three faculties of Arts, Science, and Engineering and Technology. It also has statutory authority to affiliate other institutions. All authority is vested in one body, the Court of the University which has four main advisory Councils: the Executive Council and the three Faculty Councils for Postgraduate and Undergraduate Studies. Advisory Committees under the authority of the Court include the Boards of Studies, the Finance Committee, the Working Committee, the Planning and Development Committee, and such other authorities as may be established under the statutes.

The Court functions on broad-based democratic principles and norms. It comprises representatives of University teachers, officers, non-teaching staff, students, research scholars, registered graduates and affiliated colleges. It also has one member each from the registered trade unions, primary school teachers' association and secondary school teachers' association within the territorial jurisdiction of the University. Besides these, the Court has ex-officio members from the senior ranks of Central and State Government bodies and institutions; three representatives of donors; and four elected members from the National Council of Education, Bengal, in addition to the President of the Council.

The University has three Faculties: Arts, Science, and Engineering and Technology with 35 departments under them: 12 in Arts, 17 in Engineering and Technology, and 6 in Science. Some of these departments have contributed to the development of new disciplines in the country, such as Chemical Engineering, Comparative Literature, International Relations, Film Studies and Production Engineering. The University has also evolved an interdisciplinary and interfaculty system of Schools devoted primarily to research but in some instances offering taught courses; as well as a number of Centres for research, primarily within a given discipline but branching outwards towards interdisciplinary work.

In 2001, the University Grants Commission declared Jadavpur University as one of five leading 'universities with potential for excellence'. An exceptional number of departments have been identified by the UGC as Departments of Special Assistance and Centres of Advanced Studies, or for its COSIST programme. Recently, the Department of Science and Technology, Government of India, has identified a number of departments for its FIST programme. Besides, a number of projects are granted every year by the CSIR, the MHRD, the DST, the DBT, the DOD, the ICMR, the ICSSR and other funding agencies. An index of such research activities is the increasing participation by teachers of the University in national and international conferences, not to mention the increasing number of conferences hosted every year at Jadavpur.

These awards and honours are at least in part the result of some notable features of the internal organization of the University:

- (i) a close relationship between teacher and taught, with a joint Student-Teacher Committee in each department;
- (ii) close links with ex-students;
- (iii) lively extra-curricular activities;
- (iv) a tutorial system.

This unitary University is in spirit and intention, though not in actual fact, a residential institution, and as such lays emphasis on the development of corporate life among the students. Students are

expected to participate in co-curricular activities to realize their potentials, enrich their personality, and further the ends of corporate life.

What we want here is not merely to give you a little information, not merely to open to you careers for earning a livelihood, but to build up sons for the motherland to work and to suffer for her. That is why we started this College and that is the work to which I want you to devote yourselves in future. What has been insufficiently and imperfectly begun by us, it is for you to complete and lead to perfection.

[From the speech by Aurobindo Ghosh delivered on 22 August, 1907 before the students and teachers of Bengal National College.]

VISION AND MISSION

VISION

The National Council of Education, Bengal, was established in 1906 in the wake of the nationalist movement. It was led by intellectuals, statesmen and the middle-class intelligentsia, and its aim was to cultivate the best of global learning and technology in order to build a self-reliant industrial base for India. Bengal Technical Institute was among the educational institutions founded by NCE, Bengal. Its mission was to impart training to Indian students in the appropriate technology so that the country could produce indigenous consumable materials. This Institute, later renamed College of Engineering and Technology, was in turn converted to Jadavpur University in 1955. The founders believed that the Technology Faculty could not sustain itself without active Faculties of the Basic Sciences and the Humanities. While playing a vital role in technical education in the country, the University may be said to rest on three pillars-Technology, Science and Arts. Jadavpur University is at present an internationally recognised premier university of the country. It is an urban university with a global perspective and is dedicated to creating leaders who will fashion a more humane and just world. Following in the footsteps of its predecessor, the University not only engages itself in teaching and research of international quality, but also provides societal services for the benefit of rural and urban populations. The programmes are directed towards achieving excellence in education and extending the benefits of improved technology to the society as a whole. The faculty members are encouraged to add value to the courses so that students can secure employment or attempt entrepreneurship. Extension programmes and several other courses provide opportunities for the drop-outs at different levels to continue their education. The objective is that they should be able to earn a living and derive the impersonal pleasure of learning at the same time. The University also contributes in evolving modes of digital distance education as part of the National Mission on Education.

MISSION

- The University wishes to grow further as a diverse and socially responsible learning community, providing a high quality of scholarship and equal opportunity for all. The University's core values include a commitment to:
- The highest standards of excellence in teaching, research, creative expression and service to the community;
- Advanced learning as a humanising social practice rather than as a competitive exercise;
- Regarding the production and dissemination of knowledge as inseparable goals;
- Upholding the principle that the culture of reason and learning is indivisible from a concern for the world beyond the campus;
- Maintaining principles of democratic governance and intellectual and institutional freedom;
- Abiding by principles that do not discriminate on the basis of religion, race, caste, gender and economic status.

Annual Report 2019-20

COURSES OFFERED

A. FACULTY OF ARTS

- 1 Master of Philosophy in Bengali
 - 2 Master of Philosophy in Cognitive Science
 - 3 Master of Philosophy in Comparative Literature
 - 4 Master of Philosophy in Economics
 - 5 Master of Philosophy in English
 - 6 Master of Philosophy in History
 - 7 Master of Philosophy in International Relations
 - 9 Master of Philosophy in Sanskrit
 - 10 Master of Philosophy in Sociology
 - 11 Master of Philosophy in Women's Studies
 - 12 Master of Philosophy in Linguistics
 - 13 Master of Philosophy in Education
 - 14 Master of Philosophy in Philosophy
 - 15 Master of Philosophy in Oceanography & Coastal Management
-
- 1 Master of Arts in Bengali
 - 2 Master of Arts in Comparative Literature
 - 3 Master of Arts in Economics
 - 4 Master of Arts in English
 - 5 Master of Arts in Film Studies
 - 6 Master of Arts in History
 - 7 Master of Arts in Political Science with International Relations
 - 8 Master of Arts in Philosophy
 - 9 Master of Arts in Sanskrit
 - 10 Master of Arts in Sociology
 - 11 Master of Arts in Education
 - 12 Master of Library & Information Science
 - 13 Master of Library & Information Science in Digital Library
 - 14 Master of Physical Education
 - 15 Master of Arts in Linguistics
-
- 1 Bachelor of Arts in Bengali
 - 2 Bachelor of Arts in Comparative Literature
 - 3 Bachelor of Arts in Economics

Annual Report 2019-20

- 4 Bachelor of Arts in English
- 5 Bachelor of Arts in History
- 6 Bachelor of Arts in Philosophy
- 7 Bachelor of Arts in Political Science
- 8 Bachelor of Arts in Sanskrit
- 9 Bachelor of Library & Information Science
- 10 Bachelor of Physical Education
- 11 Bachelor of Commerce (J.D. Birla Institute)
- 12 Bachelor of Education
- 13 Bachelor of Arts in Sociology

OTHER COURSES (OFFERED BY THE DEPARTMENTS/CENTRES/SCHOOLS)

- 1 Department of International Relations : One year Diploma Course in Human Rights and Duties Education
- 2 Department of Sociology :
 - a) First degree-level course in Applied Sociology,
 - b) PG Diploma course in Society, Religion and Social Work.
- 3 Bhasacharya Suniti Kumar Chatterji Centre for Language Studies : One year certificate course on Voice Training and Speech Production.
- 4 Centre for Counselling Services and Studies in Self- Development :
 - a) UGC - Sponsored 3 year Career Oriented Certificate course on Stress Management,
 - b) 2 year PG Diploma course in Counselling and Stress Management
- 5 Centre for Translation of Indian Literatures (CENTIL) :
 - a) One year Certificate course in Translation as a Skill.
- 6 Centre for Yoga :
 - a) Post-graduate Diploma in Yoga Therapy
- 7 School of Languages and Linguistics :
PG-Diploma course on Introduction to Linguistics
- 8 ICPR Centre for Buddhist Studies
Certificate course in Buddhist Studies recommended by ICPR

B. FACULTY OF ENGG. & TECH.

POST-GRADUATE COURSES

- 1 Master of Computer Sc. & Engg.
- 2 Master of Chemical Engg.
- 3 Master of Architecture
- 4 Master of Production Engg.

Annual Report 2019-20

- 5 Master of Civil Engg.
- 6 Master of Power Engg.
- 7 Master of Distributed & Mobile Computing
- 8 Master of Control System Engg.
- 9 Master of Technology in Food Tech. & Biochemical Engg
- 10 Master of Engg. in Automobile Engg.
- 11 Master of Technology in Nano Sc. & Tech.
- 12 Master of Technology in Instrumentation & Electronics Engg.
- 13 Master of Technology in Computer Tech. (6-Semester - Evening)
- 14 Master of Mechanical Engg.
- 15 Master of Electrical Engg.
- 16 Master of Metallurgical Engg.
- 17 Master of Water Resources & Hydraulic Engg. (4-Semester - Day)
- 18 Master of Water Resources & Hydraulic Engg.(6-Semester - Evening)
- 19 Master of Technology in Intelligent Automation and Robotics (6-Semester – Evening)
- 20 PG Diploma in Risk Management & Financial Engg
- 21 Master of Technology in I.T. (Courseware Engg.)
- 22 Master of Technology in Material Engg.
- 23 Master of Electronics & Tele. Comm. Engg.
- 24 Master of Biomedical Engg.
- 25 Master of Technology in VLSI Design & Micro Electronics Tech. (6-Semester - Evening)
- 26 Master of Multimedia Development
- 27 Master of Energy Sc. & Tech.
- 28 Master of Technology in Software Engg.
- 29 Master of Engg. in Software Engg. (6-Semester)
- 30 Master of Nuclear Engg.
- 31 Master of Illumination Engg. (4-Semester)
- 32 Master of Bioprocess Engineering
- 33 Master of Environmental Biotechnology
- 34 Master of Laser Technology
- 35 Master of Illumination Tech. & Design. (6-Semester – Evening)
- 36 Master of Printing Engg. & Graphic Communication.
- 37 Master of Construction Engg. (6-Semester - Evening)[Structural Repair & Retrofit Engg.]
- 38 Master of Pharmacy
- 39 Master of Clinical Pharmacy & Pharmacy Practice
- 40 Master of Computer Application
- 41 Master of Business Administration
- 42 Master of Engineering in Industrial Metallurgy (Two Years)

UNDERGRADUATE COURSES

- 1 Bachelor of Architecture
- 2 Bachelor of Chemical Engg.
- 3 Bachelor of Civil Engg.
- 4 Bachelor of Computer Sc. & Engg.
- 5 Bachelor of Construction Engg.
- 6 Bachelor of Electrical Engg.
- 7 Bachelor of Electronics & Telecommunication Engg.
- 8 Bachelor of Food Tech. & Biochemical Engg,
- 9 Bachelor of Information Technology
- 10 Bachelor of Instrumentation & Electronics Engg.
- 11 Bachelor of Mechanical Engg.
- 12 Bachelor of Metallurgical Engg.
- 13 Bachelor of Pharmacy Engg.
- 14 Bachelor of Power Engg.
- 15 Bachelor of Printing Engg.
- 16 Bachelor of Production Engg..
- 17 Bachelor of Technology (Instrumentation & Electronics Engg.)
- 18 Bachelor of Business Administration (J.D. Birla Institution)
- 19 Bachelor of Education (Special Edn.) with Specialisation in Locomotor Impairment and Neuro-Muscular Disorder.
- 20 Bachelor of Education (Special Edn.) with Specialisation in Mental Retardation.
- 21 5-Year Evening Engg. Degree Courses:
 - a) Bachelor of Civil Engg.
 - b) Bachelor of Electrical Engg.
 - c) Bachelor of Mechanical Engg.

OTHER COURSES (OFFERED BY THE CENTRES)

- 1 Centre for Computer Aided Design :
 - a) One year P.G. Diploma in applied GIS and Remote Sensing,
 - b) One year Diploma in Multimedia and Animation,
 - c) Auto CAD with AutoLisp,
 - d) Structural Analysis and Design,
 - e) Advanced 3D Modelling.
- 2 Centre for Welding Technology :
 - a) Certificate course in Welding Inspection and Testing,
 - b) Training course for Welders (MMAW / TIG / Pipe Welding) / Supervisors,
 - c) Six Module-based Post -Diploma course for Engineers.

C. FACULTY OF SCIENCE

POST-GRADUATE COURSES

- 1 Master of Philosophy in Oceanography and Coastal Management (See under Faculty of ISLM)
- 2 Master of Science in Applied Geology
- 3 Master of Science in Biotechnology
- 4 Master of Science in Chemistry (Day & Evening) 2-year Day Course/3 year Evening Course
- 5 Master of Science in Electronics Sc.
- 6 Master of Science in Composite Home Sc. (Human Development, J.D. Birla Inst.)
- 7 Master of Science in Home Sc. (Resource Management, J.D. Birla Inst.)
- 8 Master of Science in Home Sc. (Textiles and Clothing, J.D. Birla Inst.)
- 9 Master of Science in Home Sc. (Food and Nutrition, J.D. Birla Inst.)
- 10 Master of Science in Mathematics (Day & Evening) 2-year Day Course/3 year Evening Course
- 11 Master of Science in Physics (Day & Evening) 2-year Day Course/3 year Evening Course
- 12 Master of Science in Instrumentation Science

UNDERGRADUATE COURSES

- 1 Bachelor of Science in Chemistry
- 2 Bachelor of Science in Geological Sciences
- 3 Bachelor of Science in Geography
- 4 Bachelor of Science in Home Sc. (J.D. Birla Inst.)
- 5 Bachelor of Science in Food Science & Nutrition Management (J.D. Birla Inst.)
- 6 Bachelor of Science in Textile Science, Clothing & Fashion Studies (J.D. Birla Inst.)
- 7 Bachelor of Science in Interior Designing (J.D. Birla Inst.)
- 8 Bachelor of Science in Human Development (J.D. Birla Inst.)
- 9 Bachelor of Science in Mathematics
- 10 Bachelor of Science in Physics

OTHER COURSES (OFFERED BY THE DEPARTMENTS/CENTRES)

- 1 Department of Physics : Post-M.Sc. Diploma in Medical Physics

COURSES (OFFERED BY INTERDISCIPLINARY SCHOOLS)

- 1 School of Cultural Texts and Records :
 - a) Post-Graduate Certificate course in Editing and Publishing.
 - b) PG Diploma course in Digital Humanities and Cultural Informatics
- 2 School of Languages :
 - a) M.Phil and M.A. in Linguistics
 - b) Certificate courses in Bengali, French, German, Italian, Korean, Portuguese, Spanish, Hindi, Functional Communicative English, Japanese

Annual Report 2019-20

- c) Diploma courses in Bengali, French, German, Italian, Portuguese, Spanish, Hindi, Japanese, Sanskrit.
 - d) Advanced Diploma Courses in Bengali, Sanskrit, Portuguese, French, Japanese
 - e) Certificate Course in Linguistic
- 3 School of Women's Studies :
 - a) M. Phil in Women's Studies,
- 4 School of Bioscience and Engg. : Master of Engineering in Biomedical Engg.
- 5 School of Education Technology :
 - a) Master in Multimedia Development,
 - b) M. Tech. in IT (Courseware Engg.)
- 6 Multimedia Digital Distance Education Mode
 - a) PG Diploma in Multimedia and Web Technology,
 - b) PG Diploma in Risk Management and Financial Engg.
- 7 Distance Mode
 - a) M.A. in Environment and Development Distance Mode
- 8 School of Energy Studies :
 - a) M. Tech. in Energy Science and Technology,
- 9 School of Material Science and Nanotechnology :
 - a) M.Tech. in Nanoscience and Technology.
- 10 School of Mobile Computing and Communication :
 - a) M. Tech in Distributed and Mobile Computing.
- 11 School of Nuclear Studies and Application :
 - a) Master of Engineering in Nuclear Engineering.
- 12 School of Water Resources Engg. :
 - a) Master of Engineering in Water Resources and Hydraulic Engg.
- 13 School of Environmental Studies :
 - a) M.Tech in Environmental Bio-Technology
 - b) Post-graduate Diploma in Environmental Management and Regulations
- 14 School of Oceanographic Studies :
 - a) M. Phil in Oceanography and Coastal Management,
 - b) PG Diploma in Remote Sensing,

Annual Report 2019-20

UNIVERSITY OFFICERS [AS ON 05.11.2018]

1.	Professor Suranjan Das	:	Vice-Chancellor (16.07.2015 - Continuing)
2.	Dr. Ashish S. Verma	:	Pro Vice-Chancellor (15.12.2014 - Continuing)
3.	Dr. Pradip Kr. Ghosh	:	Pro Vice-Chancellor (19.08.2017 - Continuing)
4.	Professor Subhasis Biswas	:	Dean, Faculty of Arts
5.	Professor Chiranjib Bhattacharjee	:	Dean, Faculty of Engineering and Technology
6.	Professor Subrata Nath Koner	:	Dean, Faculty of Science
7.		:	Dean, Faculty of Interdisciplinary Studies, Law & Management
8.	Dr. Partha Pratim Lahiri	:	Registrar (Officiating, w.e.f. 01.09.2017 for 6 months)
	Professor Chiranjib Bhattacharjee	:	Registrar (Acting, w.e.f. 05.03.2018 for 6 months & w.e.f. 19.09.2018)
	Dr. Pradip Kr. Ghosh	:	Registrar (Acting, w.e.f. 05.09.2018)
	Dr. Snehamanju Basu	:	Registrar (w.e.f. 05.11.2018)
9.		:	Joint Registrar
10.	Dr. Partha Pratim Lahiri	:	Joint Registrar
11.	Dr. Sanjay Gopal Sarkar	:	Joint Registrar
12.	Dr. Kaniska Sarkar	:	Sr. Asst. Registrar (Main Campus)
13.	Dr. Ujjwal Kumar Mondal	:	Asst. Registrar (Salt Lake Campus), Selection Grade
14.	Dr. Satyaki Bhattacharyya	:	Controller of Examinations
15.	Ms. Chandrani Dam	:	Asst. Controller of Examinations
16.		:	Asst. Controller of Examinations (Contractual)
17.	Sri Gour Krishna Pattanayak	:	Finance Officer
18.	Sri Debasish Pal	:	Joint Finance Officer (On Lien)
19.	Sri Indrajit Banerjee	:	Accounts Officer, Sr. Scale
20.	Sri Shiladitya Chatterjee	:	Accounts Officer, Sr. Scale
21.		:	Accounts Officer (Contractual)
22.	Sri Dipanjan Raychaudhuri	:	Audit Officer, Selection Grade
23.	Dr. Shrabana Ghosh	:	Chief Librarian (Officiating)
24.	Dr. Shrabana Ghosh	:	Librarian
25.	Sri Sanku Bilas Roy	:	Librarian (Salt Lake Campus)
26.	Sri Samit Pahari	:	Information Scientist, Selection Grade
27.	Dr. Rajat Ray	:	Dean of Students
28.	Dr. Bappa Mullick	:	Sr. Director of Youth Welfare
29.	Sri Siddhartha Bhattacharyya	:	Chief Officer of Placement and Training
30.	Dr. Debabrata Saha	:	Principal Development Officer
31.	Prof. Gupinath Bhandari	:	Chief University Engineer (Look after)
32.	Sri Dinabandhu Tripathi	:	Asst. Engineer (Civil)
33.	Sri Badal Sarkar	:	Asst. Engineer (Electrical) Selection Grade
34.	Sri Indrajit Banerjee	:	Secretary, Faculty of Arts
35.	Dr. Bholanath Karmakar	:	Principal Secretary, Faculty of Engineering and Technology
36.	Dr. Atiskumar Chattopadhyay	:	Principal Secretary, Faculty of Science
37.	Sri Siddhartha Bhattacharyya	:	Secretary, Faculty of Interdisciplinary Studies, Law & Management (Additional Charge)

Annual Report 2019-20

38. Dr. Kamal Dutta	:	Chief Medical Officer
39. Dr. Aparup Konar	:	Director of Physical Instruction, Sr. Scale
40. Dr. Nandini De	:	Sr. Documentation Officer
41. Ms. Sarbani Goswami	:	Sr. Research Officer
42. Sri Abhijit Sen	:	Publication Officer, Sr. Scale
43.	:	Micro -Analyst
44. Sri Pranab Roy	:	Scientific Officer, Sr. Scale
45. Ms Samita Bhattacharya	:	OSD, Placement & Training
46. Sri Indranil Mukherjee	:	OSD, Admission & System Operation
47. Sri Shyamal Bose	:	OSD, System Administrator

**MEMBERS OF THE COURT
(As on 1st November, 2018)**

It is notified information of all concerned that in terms of the **West Bengal University Laws (Amendment) Act, 2011** , the **University Court** is formed with following members .

1. **Chancellor**
Sri Keshari Nath Tripathi
Hon'ble Governor of West Bengal
&
Chancellor, Jadavpur University
Raj Bhavan,
Kolkata-700 062.
2. **Vice-Chancellor**
Professor Suranjan Das
Vice-Chancellor
Jadavpur University
Kolkata-700 032.
3. **Pro-Vice-Chancellor**
Dr. Ashish S. Verma
Pro-Vice-Chancellor
Jadavpur University
Kolkata-700 032.
- 3(a). **Pro-Vice-Chancellor**
Dr. Pradip Kumar Ghosh,
Pro-Vice-Chancellor
Jadavpur University
Kolkata-700 032
4. **Dean, Faculty of Arts**
Prof. Subhasis Biswas
Jadavpur University
Kolkata-700 032.

5. **Dean, Faculty of Engg. & Technology**
Prof. Chiranjib Bhattacharjee
Jadavpur University
Kolkata-700 032.
6. **Dean, Faculty of Science**
Prof. Subrata Nath Koner
Jadavpur University
Kolkata-700 032.
7. **Dean, Faculty of Interdisciplinary Studies, Law & Management**
Prof. Samita Sen
Jadavpur University
Kolkata-700 032.
8. **Smt. Madhumita Roy, IAS**
Secretary,
Higher Education Department
Government of West Bengal
CS Branch
Bikash Bhavan
Salt Lake City
Kolkata-700 091.
9. **Financial Advisor**
Higher Education Dept.
Government of West Bengal
Bikash Bhavan
Salt Lake City
Kolkata-700 091.
10. **Nominee of Chairman**
Sri Manojit Mandal, Dept. of English, JU
West Bengal State Council of Higher Education
147-A, Rash Behari Avenue
Kolkata-700 029
11. **President**
West Bengal Council of Higher Secondary Education
9/2, Block – DJ, Sector-II
Salt Lake, Kolkata-700 091.
12. **Md. Fazle Rabbi**
President
West Bengal Board of Madrasa Education
'Begum Rokeya Bhavan'
19, Haji Md. Mohsin Square
Kolkata-700 016.
13. **President**
West Bengal Board of Secondary Education
DJ-8, Sector-III
Nivedita Bhawan
Salt Lake, Kolkata.

Annual Report 2019-20

14. **Prof. Sabyasachi Basu Ray Chaudhury**
Vice-chancellor,
Rabindra Bharati University
Kolkata-700 050
15. **Prof. A. K. Ray, Director**
Indian Institute of Engineering Science & Technology, Shibpur
P.O. Botanical Garden, Shibpur, Howrah, West Bengal, India - 711103
16. **Prof. Anil Sukla**
Deputy Secretary
NCTE, HQS, Wing II Hans Bhawan
1, Bahadurshah Zafar Marg
New Delhi-110002

REPERESENTATIVES OF THE DEPARTMENTS

17. **Adult Continuing Education & Extension**
Prof. Tandra Mitra, [Head]
Jadavpur University
Kolkata-700 032.
18. **Architecture**
Prof. Sanjib Nag [Head]
Jadavpur University
Kolkata-700 032.
19. **Chemical Engg.**
Prof. Debashis Roy [Head]
Jadavpur University
Kolkata-700 032.
20. **Civil Engg.**
Prof. Arup Guha Niyogi [Head]
Jadavpur University
Kolkata-700 032.
21. **Computer Sc. & Engg.**
Prof. Mahantapas Kundu [Head]
Jadavpur University
Kolkata-700 032.
22. **Construction Engg.**
Prof. Debasish Bandyopadhyay [Head]
Jadavpur University
Kolkata-700 032.
23. **Electrical Engg.**
Prof. Subrata Paul [Head]
Jadavpur University
Kolkata-700 032.
24. **Electronics & Telecommunication Engg.**
Prof. Sheli Sinha Chaudhury, [Head]
Jadavpur University
Kolkata-700 032.

25. **Food Tech. & Bio-Chemical Engg.**
Prof. Uma Ghosh [Head]
Jadavpur University
Kolkata-700 032.
26. **Information Technology**
Dr. Bhaskar Sardar [Head]
Jadavpur University
Kolkata-700 032.
27. **Instrumentation & Electronics Engg.**
Dr. Runu Banerjee Roy [Head]
Jadavpur University
Kolkata-700 032.
28. **Mechanical Engg.**
Prof. Goutam Majumdar [Head]
Jadavpur University
Kolkata-700 032.
29. **Metallurgical & Material Engg.**
Prof. Pravash Chandra Chakraborti [Head]
Jadavpur University
Kolkata-700 032.
30. **Pharmaceutical Technology**
Prof. Pulak K. Mukherjee [Head]
Jadavpur University
Kolkata-700 032.
31. **Power Engg.**
Prof. Amitava Datta [Head]
Jadavpur University
Kolkata-700 032.
32. **Printing Engg.**
Dr. Soumen Basak [Head]
Jadavpur University
Kolkata-700 032.
33. **Production Engg.**
Prof. Arunanshu Sekhar Kuar [Head]
Jadavpur University
Kolkata-700 032.

FACULTY COUNCIL OF ARTS

REPERESNTATIVES OF THE DEPARTMENTS

34. **Bengali**
Prof. Barendu Mondal [Head]
Jadavpur University
Kolkata-700 032.

35. **Comparative Literature**
Prof. Samantak Das [Head]
Jadavpur University
Kolkata-700 032.
36. **Economics**
Prof. Malabika Roy [Head]
Jadavpur University
Kolkata-700 032.
37. **Education**
Dr. Bishnupada Nanda [Head]
Jadavpur University
Kolkata-700 032.
38. **English**
Prof. Nandini Saha [Head]
Jadavpur University
Kolkata-700 032.
39. **Film Studies**
Prof. Madhuja Mukherjee [Head]
Jadavpur University
Kolkata-700 032.
40. **History**
Prof. Rup Kumar Barman [Head]
Jadavpur University
Kolkata-700 032.
41. **International Relations**
Prof. Om Prakash Misra [Head]
Jadavpur University
Kolkata-700 032.
42. **Library & Information Science**
Prof. Udayan Bhattacharya [Head]
Jadavpur University
Kolkata-700 032.
43. **Philosophy**
Prof. Atashee Chatterjee Sinha [Head]
Jadavpur University
Kolkata-700 032.
44. **Physical Education**
Dr. Gopal Chandra Saha [Head]
Jadavpur University
Kolkata-700 032.
45. **Sanskrit**
Prof. Tapan Sankar Bhattacharyya [Head]
Jadavpur University
Kolkata-700 032.

46. **Sociology**
Prof. Dalia Chakrabarti [Head]
Jadavpur University
Kolkata-700 032.

FACULTY COUNCIL OF SCIENCE
REPERESNTATIVES OF THE DEPARTMENTS

47. **Chemistry**
Prof. Kalyan Kumar Das [Head]
Jadavpur University
Kolkata-700 032.
48. **Geography**
Dr. Lakshmi Sivaramakrishnan [Head]
Jadavpur University
Kolkata-700 032.
49. **Geological Sciences**
Dr. Sanjay Sanyal [Head]
Jadavpur University
Kolkata-700 032.
50. **Instrumentation Science**
Dr. Sankar Narayan Patra [Head]
Jadavpur University
Kolkata-700 032.
51. **Life Science & Bio-Tech.**
Dr. Biswadip Das [Head]
Jadavpur University
Kolkata-700 032.
52. **Mathematics**
Prof. Shamik Ghosh [Head]
Jadavpur University
Kolkata-700 032.
53. **Physics**
Prof. Debasish Lohar [Head]
Jadavpur University
Kolkata-700 032.
54. **Vacant**
Five teachers elected by the teachers
of the Departments under the
Faculty Council for Post Graduate and
Under Graduate Studies in
Engineering and Technology from
amongst themselves as may be
prescribed by Statutes
55. **Vacant**
Five teachers elected by the teachers
of the Departments under the Faculty Council
for Post Graduate and Under Graduate
Studies in Arts from amongst themselves
as may be prescribed by Statutes

Annual Report 2019-20

56. **Vacant**
Five teachers elected by the teachers of the Departments under the Faculty Council for Post Graduate and Under Graduate Studies in Science from amongst themselves as may be prescribed by Statutes
57. **Vacant**
One representative of the Officers of the University.
58. **Vacant**
One representative of Non-teaching Employees
59. **Representative: National Council of Education, Bengal**
Sri Himendu Biswas
National Council of Education, Bengal
Jadavpur University
Kolkata-700 032.

NOMINATED MEMBERS

60. **Prof. Bimal Roy**
Head of R.C. Bose Centre for Cryptology and Security
Indian Statistical Institute,
201, B.T. Road,
Kolkata-700 108.
61. **Prof. Bikash Sinha**
Emeritus INSA Scholar
1/AF, Bidhannagar
Kolkata -700064
62. **Prof. H Devaraj**
UGC BSR Scientist
Dr. A. L.Mudaliar Centre for Basic Science Development
University of Madras
63. **Prof. Goverdhan Mehta**
National Research Professor &
Jubilant - Bhartia Chair Professor
Hyderabad University,
Hyderabad-500 046
64. **Prof. M.C. Chattapadhyay**
Retired Professor of Chemistry
Allahabad University
264-A, Allenganj,
Allahabad-211002

SPECIAL INVITEE

65. **Dr. Snehamanju Basu**
Registrar
Jadavpur University
Kolkata-700 032.
66. **Dr. Partha Pratim Lahiri**
Joint Registrar
Jadavpur University
Kolkata-700 032.

67. **Sri G.K. Pattanayak**
Finance Officer
Jadavpur University
Kolkata-700 032.
68. **Vacant**
Any official of Expert in
any field or eminent
educationist, whom the
University may require
for advice , consultation
or assistance, may be
invited to attend the meeting

MEMBERS OF THE EXECUTIVE COUNCIL
(As on 1st November, 2018)

1. **Vice-Chancellor [Ex-Officio Member]**
Professor Suranjan Das
Jadavpur University
2. **Pro-Vice-Chancellor [Ex-Officio Member]**
Dr. Ashish S. Verma
Jadavpur University
3. **The Pro-Vice-Chancellor [Ex-Officio Member]**
Prof. Pradip Kumar Ghosh,
Jadavpur University
Kolkata-700 032
4. **Smt. Madhumita Ray, [IAS]**
Secretary,
Higher Education Department
Government of West Bengal
CS Branch
Bikash Bhavan, 6th Floor, Salt Lake
Kolkata-700 091
5. **Fianacial Advisor**
Government of West Bengal
Higher Education Dept.
Bikash Bhavan ,
Salt Lake
Kolkata-700 091
6. **Sri Manojit Mandal**
Nominee, Chairman of
West Bengal State Council of Higher Education
147-A, Rashbehari Avenue,
Kolkata-700 029
(Dept. of English)
Jadavpur University
7. **Prof. Subhasis Biswas**
Dean, Faculty Council of Arts
Jadavpur University
Kolkata-700 032

Annual Report 2019-20

8. **Prof. Chiranjib Bhattacharjee**
Dean, Faculty Council of Engg. & Technology
Jadavpur University
Kolkata-700 032
9. **Prof. Subrata Nath Koner,**
Dean, Faculty Council of Science
Jadavpur University
Kolkata-700 032
10. **Prof. Samita Sen**
Dean, Faculty Council of Interdisciplinary Studies, Law & Management
Jadavpur University
Kolkata-700 032
11. **Prof. Tapan Sankar Bhattacharya**
Head, Dept. of Sanskrit
Jadavpur University
Kolkata-700 032
12. **Prof. Dalia Chakrabarti**
Head, Dept. of Sociology
Jadavpur University
Kolkata-700 032
13. **Prof. Tandra Mitra**
Head, Dept. of Adult and Continuing Education & Extension
Jadavpur University
Kolkata-700 032
14. **Prof. Sanjib Nag**
Head, Dept. of Architecture
Jadavpur University
Kolkata-700 032
15. **Prof Barendu Mandal**
Head, Dept. of Bengali
Jadavpur University
Kolkata-700 032
16. **Prof. Debashis Roy**
Head, Dept. of Chemical Engg.
Jadavpur University
Kolkata-700 032
17. **Prof. Kalyan Kumar Das**
Head, Dept. of Chemistry
Jadavpur University
Kolkata-700 032
18. **Prof. Arup Guha Niyogi**
Head, Dept. of Civil Engg.
Jadavpur University
Kolkata-700 032
19. **Prof. Samantak Das**
Head, Dept. of Comparative Literature
Jadavpur University
Kolkata-700 032

20. **Prof. Mahantapas Kundu**
Head, Dept. of Computer Science & Engg.
Jadavpur University
Salt Lake Campus

21. **Prof. Debasish Bandyopadhyay**
Head, Dept. of Construction Engg.
Jadavpur University
Salt Lake Campus
Kolkata

22. **Prof. Malabika Roy**
Head, Dept. of Economics
Jadavpur University
Kolkata-700 032

** Tenure of Membership in Executive Council for members belongs to S.L. No. 11 to 22 is one year for each department.

23. **Vacant**
Three teachers, of whom at least one shall be Professor, elected by the teachers of the Department under the Faculty Council for Post-Graduate and Under-Graduate Studies in Engg. & Tech. from amongst themselves.

24. **Vacant**
Three teachers, of whom at least one shall be Professor, elected by the teachers of the Department under the Faculty Council for Post-Graduate and Under-Graduate Studies in Arts from amongst themselves.

25. **Vacant**
Three teachers, of whom at least one shall be Professor, elected by the teachers of the Department under the Faculty Council for Post-Graduate and Under-Graduate Studies in Science from amongst themselves.

26. **Vacant**
One Teacher not below the rank of Associate Professor, elected by the teachers of the Schools under the Faculty Council of Interdisciplinary Studies Law & Management from amongst themselves

Nominated Members (Chancellor's Nominee)

27. **Prof. Suva Sankar Sarkar**
Vice Chancellor,
Netaji Subhas Open University, DD-26, Sector-1,
Salt Lake City
Kolkata-700 064

Annual Report 2019-20

28. **Prof. Narendra Kumar Singh Gaur,**
Ex-Professor of Physics
Allahabad University
Former Minister of Higher Education,
15/3 Stanley Road, Tashkhand Marg,
Civil Line,
Allahabad-211 001
29. **Dr. Snehamanju Basu**
Registrar
Jadavpur University
Kolkata-700 032.
30. **Dr. Partha Pratim Lahiri**
Jont Registrar
Jadavpur University
Kolkata-700 032.
30. **Sri G. K. Pattanayak**
Finance Officer
Jadavpur University
Kolkata-700 032.

DAY CARE CENTRE

Int. : 2457-2950

Coordinator : Prof. Nilanjana Gupta

Jadavpur University Day Care Centre (JUDCC) began its operations on 1 September, 2011. In 2017 the renovation work for the additional space of the Centre on the ground floor of Multi-Storey building in the residential area of the main campus of the university was completed and furniture and other accessories were purchased. It was inaugurated on 17 November, 2017. This additional space was required for accommodating children whose parents applied for registration but had been waiting for a long time.

Children aged between one and twelve stay at the centre. There are 15 wards registered as 'regular' and 3-5 wards using the Centre on 'casual' basis. Some of the children come from their schools and some from home. They engage in games as well as various creative activities daily.

Round the year, the Day Care Centre organizes various programmes including recitation, singing, painting, dance, plays, story-reading, creative writing and sports. The Centre celebrated 'Rabindra Jayanti' on 17 June, 2017. The Annual Cultural Programme was organized on 17 March, 2018. The children rehearsed for each of these programs enthusiastically and put up performances that were enjoyed by all. The Annual Sports including a Carom competition was organized on 16 December, 2017. The wall magazine of JUDCC was published on 26 August, 2017.

Annual Report 2019-20

MEMORANDUM OF UNDERSTANDING

(April 2017 to March 2018)

Sl.No	Name of Organisation	Date of Execution	Contact Person(s)	Details
G-01	THE ENERGY AND RESOURCES INSTITUTE (TERI) AND JU,	01.04.2017	12 months	Dr. Tuhin Ghosh School of Oceanographic Studies TERI and JU agree to enter into a SUB-GRANT AGREEMENT for JU to provide technical and other inputs to TERI in the execution of the overall project sponsored by IDRC
F-02	UNIVERSITY OF FLORENCE AND JU,	06.04.2017	77 years	Dr. Shivashish Bose Department of Architecture Cultural and Scientific Cooperation
P-03	Alphabet Books And JU,	12.04.2017		Mahua Sarkar, Dept. of History Publication of Book entitled "A COLLEGE OF ENVIRONMENTAL HISTORY".
G-04	National Institute of Traditional Medicine, BELAGAVI And JU,	02.05.2017,		Dr. Pulok K. Mukherjee Joint research activities
G-05	LPG Equipment Research Centre And JU,	02.05.2017		Prof. Amitava Dutta, Power Engg. Design and development of High Efficiency LPG Stoves for the domestic use
F-06	NORTH SOUTH UNIVERSITY & JU,	03.05.2017	72 years	Short courses, collaborative research projects and mutual provision of services like staff development, programme support, joint workshops, joint PhD etc.
G-07	ST. THOMAS' TECHNICAL TRAINING CENTRE AND JU,	08.05.2017		Four Months' Full Time Technician Training Courses on "Basic Networking"
F-08	SAPIENZA UNIVERSITY OF ROME (ITALY) AND JU,	16.05.2017	75 years	Prof. Subrata Mukhopadhyay Agreement of Cultural and Scientific Cooperation
G-09	LAKE TERRACE MAMTA WELFARE SOCIETY AND JU,	21.05.2017		To provide the employees and regular full-time students of JU with the facility of keeping their children under good care during the day time inside the University campus
F-10	SAPIENZA UNIVERSITY OF ROME (ITALY) AND JU,	05.06.2017		Prof. Siddhartha Mitra Executive protocol of the general agreement for cooperation
G-11	DBT AND JU,	06.06.2017		Mining the genome and metagenome of marine microbiome for PKS-NRPS biosynthetic gene clusters and bioactive small molecules
G-12	SRI AUROBINDA ENGINEERING INSTITUTE AND JU	06.06.2017		Santwan Chattopadhyay One year advanced certificate course on "Civil Construction Engineering" and "A.C. & Refrigeration Engineering"
G-13	MCKV Institute of Engineering and JU,	06.06.2017	73 yrs	Prof. Subir Kumar Sarkar Dept. of Electronics and Telecommunication engg. Certificate course in VLSI Design and Microelectronics Technology
G-14	IICP And JU	07.06.2017		Two years Course in B.Ed. Special Education (Multiple Disabilities) 2017-2019 for one Academic Session
G-15	THE CRICKET ASSOCIATION OF BENGAL (CAB) AND JU,	4.06.2017		
G-16	AMRI HOSPITALS, KOLKATA AND JU,	16.06.2017		Prof. Amalesh Samanta, M. Pharm in "Clinical Pharmacy and Pharmacy Practice"
F-17	MAE FAH LUANG UNIVERSITY, THAILAND AND JU,	19.06.2017,		Pulok Mukherjee Facilitating mutual friendship, academic research and educational cooperation
G-18	OPTM HEALTH CARE PVT. LTD. AND JU,	19.06.2017	79 months	9 month certificate course in "Clinical Research in Phytomedicine & Phytotherapy"
G-19	LAKE TERRACE MAMTA WELFARE SOCIETY AND JU,	01.07.2017	72 years	Prof. Nilanjana Gupta The main objective is to provide the employees and regular full-time students of Jadavpur University with the facility of keeping their children under good care during the day time inside the University campus.

Annual Report 2019-20

- G-20 **Dr. Anamika Ray Memorial Trust And JU**, 03.07.2017 Skill development and awareness programme
- F-21 **SERGUSA SOLUTIONS PVT. LTD. AND UNIVERSITE JEAN MONNET SAINT-ETIENNE AND CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE AND JU**, 05.07.2017 Intellectual Property management plan for Industry-Academia Research & Development Programme
- F-22 **ZHAW ZURICH UNIVERSITY OF APPLIED SCIENCES, WINTERTHUR, SWITZERLAND AND JU**, 11.07.20 175 years Promote cooperation between both Universities
- F-23 **SAPIENZA UNIVERSITY OF ROME (ITALY) AND JU** 11.07.20 175 YEARS Extension of the general cultural and scientific co-operation agreement. Agreement signed on 3rd April 2006 and expired on 3rd April 2012 renewed at 2017
- G-24 **NUVOCO VISTAS CORPORATION LIMITED AND JU**, 12.07.2017 Tarit Roychowdhury Diploma in industrial safety and environmental management
- G-25 **TMC INSTITUTE OF LEARNING AND JU**, 19.07.2017 Santwan Chattopadhyay Part time technician training course on “Industrial Practices”
- G-26 **DIRECTORATE GENERAL OF COMERCIAL INTELLIGENCE AND STATISTICS (DGCIS) AND JU** 25.07.2017, Rajat Acharyya, Dept. of Eco., Academic Collaboration Regarding Data Analytics Cell
- G-27 **SAGE PUBLICATIONS AND JU**, 11.08.2017, Dr. Shibashis Chatterjee HoD, Department of international relations, JU Addendum to the MoA made on 2013
- G-28 **BHABHA ATOMIC RESEARCH CENTRE (BARC) AND JU**, 17.08.2017 Sandip Das Project title “Critical Flow Behavior Study of Water at PHWR Condition for Flow through Cracked Pipes under Bending Moment”
- F-29 **CAMBRIDGE UNIVERSITY PRESS & JU**, 29.08.2017 Sivaji Bandyopadhyay CSE Code of Conduct for International Conference on Natural Language Processing (ICON) 2017 at JU
- F-30 **TOTAL MARKETING SERVICES AND JU**, 06.09.2017 Dr. Sudeshna Saha Dept. of Chemical Engineering Contract for the Provision of Consulting Services Study and consultancy services in the field of: “Emulsion Study for Textile”
- G-31 **AMRI HOSPITALS, KOLKATA AND JU**, 13.09.2017 Prof. T.K. Chatterjee CRC Pharma covigilance in Clinical Research
- G-32 **SRI AUROBINDA ENGINEERING INSTITUTE AND JU** 14.09.2017 Santwan Chattopadhyay Two year Dipoma Course in ‘Automobile Engineering’ for better employment
- G-33 **ST. THOMAS’ TECHNICAL TRAINING CENTRE (STTTC) AND JU** 14.09.2017 Santwan Chattopadhyay Six Months’ full time technician training course on “Computer Hardware”
- G-34 **BOSE INSTITUTE AND JU**, 15.09.20 173 years Environmental Radiation and Archaeological Sciences (SSEERAS)andCentre for Astroparticle Physics and Space Science
- G-35 **CHILDLINE INDIA FOUNDATION AND JU**, 26.09.2017 Amendment and extension of agreement
- G-36 **ST. THOMAS’ TECHNICAL TRAINING CENTRE AND JU** 16.10.2017 Santwan Chattopadhyay One year full time technician training course on “Air-Conditioning and Refrigeration”
- G-37 **NATIONAL BIODIVERSITY AUTHORITY AND INDIAN COUNCIL OF MEDICAL RESEARCH AND JU**, 16.10.2017 Prof. Ratan Gachhui Life Sc. & Biotechnology Dept. Agreement for access benefit sharing
- G-38 **CDSL VENTURES LIMITED (CVL) AND JU**, 26.10.2017 Controler To lodge the academic awards of its students/awardees from the current academic year and also for previous academic years in the NAD Portal.
- G-39 **INDIAN INSTITUTE OF CEREBRAL PALSY (IICP) AND JU**, 16.11.2017 Trandra Mitra 8 months certificate course in “Caregivers for persons with disabilities”
- G-40 **FORTIS HOSPITALS LIMITED AND JU**, 16.11.2017 Prof. Dr. T.K.Chatterjee Director, CRC 9 months certificate course in “Respiratory Therapy Technician”.
- G-41 **NATIONAL MEDICINAL PLANTS BOARD AND JU** 20.11.2017 Asis Mazumdar Director, School of Water Resources Engineering. Establishing REGIONAL CUM FACILITATION CENTRE
- G-42 **NITI AAYOG AND JU**, 15.12.2017 V.C. Collating the best-practices, especially but not limited to innovative measures taken by government entities

Annual Report 2019-20

- G-43 **DBT AND JU** 19.12.2017 Prof. Dr. Subhash C Mandal Dept. of Pharmaceutical Technology Chemical profiling of Joha and black rice of NER for Nutritional, Nutraceutical Parameters and Aromatic Compounds
- G-44 **VISION CARE HOSPITAL AND JU** 27.12.2017, T.K.Chatterjee Director CRC Parties have agreed to offer the **9 months** certificate course in Clinical Research in Hospital for the Academic Session 2017-18
- G-45 **BSNL AND JU**, 01.01.2018 Execution of an agreement for further extension of 15 years of existing RSU Exchange
- F-46 **UNIVERSITY OF EXETER AND JU**, 09.01.20 183 years Dr. S.G.Sarkar Joint Registrar Parties have intention to cooperate with each other in order to explore the possibility of developing and furthering the mutually beneficial Common objectives.Through the University of Exeter College of Humanities and the English Department of JU, the parties wish to explore the development of education and research activities
- F-47 **THE UNIVERSITY COURT OF THE UNIVERSITY OF EDINBURGH AND JU**,09.01.20 183 years The parties intend to promote co-operation in teaching, research and service to the community by working together on activities and projects where there is alignment of strategy and objectives
- F-48 **FOLGER SHAKESPEARE LIBRARY AND JU**, 25.01.2018 Parties will work to accomplish 5 items 1. Making the material of 'Shakespeare in Bengali' 2. Preparing a general catalog of printed material in Indian languages relating to Shakespeare 3. Preparing a specific catalog of Bengali print material on Shakespeare in the National Library. 4. Preparing transcripts of 3 texts in Bengali 5. Using materials from the first three items to craft a modest-scale digital exhibition, highlighting a subset of materials
- G-49 **NATIONAL MEDICINAL PLANTS BOARD (NMPB) AND JU**, 09.02.2018 Rajib Bandyopadhyay Dept. of IEE, JU, Development of sensor probes for quantification of active constituents in *Andropogon paniculata* and *Piper nigrum* using Near infrared Spectroscopy (NIRS)
- F-50 **THE RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITY OF BONN, GERMANY AND JU** 07.03.2018, Prof. Pulok K. Mukherjee Director School of Natural Product Studies The parties endeavour to establish scientific and scholarly cooperative projects in the fields of fundamental principles and models of synergy as well as preclinical and clinical research on synergistic interactions and effects of compounds and drugs
- G-51 **Memorandum of Grant Conditions Between IDRC/CRDI (International Development Research Centre) & Jadavpur University**, 09.03.2018, Prof. Tuhin Ghosh Amendment to the Grant Agreement
- G-52 **ENDOWMENT BETWEEN DR. CHITRALEKHA MALLIK AND JU** 12.03.2018, Deed for endowment to be named after "LATE HAIMABATI BHATTACHARYYA MEMORIAL SCHOLARSHIP FUND"
- G-53 **ENDOWMENT BETWEEN DR. CHITRALEKHA MALLIK AND JU** 12.03.2018 Deed for endowment to be named after "LATE PANDIT BIDHUBHUSAN BHATTACHARYYA MEMORIAL RESEARCH FELLOWSHIP FUND"
- G-54 **DIPHU GOVERNMENT COLLEGE AND JU**, 13.03.2018 Argha Deb carry out joint research and promote collaboration between researchers working in the field of studies on Geochemical/Geophysical Precursors for Earthquakes
- F-55 **TOKYO UNIVERSITY OF FOREIGN STUDIES AND JU**, 19.03.20 185 Years Dr. Rajeshar Sinha Dr. Payel Basu Agreement for academic exchange and cooperation
- F-56 **TOKYO UNIVERSITY OF FOREIGN STUDIES AND JU**, 19.03.2018 Dr. Rajyeswar Sinha, Dr. Payel Basu, Memorandum on student exchanges
- P-57 **ALPHABET BOOKS & JU**, 29.03.2018 Prof. Mahua Sarkar Glimpses of Environment History

[G - General, P - Publisher, F - Foreign]

Annual Report 2017-18

NEW PROJECTS
April 2017 - March 2018

Sl No.	Funding Agency	Faculty	Title	Co-Ordinator	Starting Date	Cost	Sanc. No.	Sanc. Date	Status
1.	CSIR	ENGG	Time Dependent Nonlinear Structure in Plasmas in the Frame Work of Lagrangian Fluid Description	Monoranjan Khan	4/7/2017	990000	CSIR/01/E11 /002/0874	12/1/2016	R
2.	BWS	SC	Hydro Geological Investigation for Assessing Sub Surface Ground Water Potential in Selected Blocks of Bankura District West Bengal	Tarit Roychowdhury	4/7/2017	1437750	BWS/01/S06/008/0877	4/3/2017	R
3.	CSIR	SC	Metalion Sensors Synthesis Recognitions and Protein Binding Studies	Mahammad Ali	5/1/2017	1000000	CSIR/01/S01 /013/0881	5/1/2017	R
4.	CSIR	SC	Rhodamine Inspired Sulfonamides Structure Chemosensor and Exploration of Their Biomaterial Activity	Chittaranjan Sinha	5/3/2017	950000	CSIR/01/S01 /017/0878	5/3/2017	R
5.	DST	SC	Modelling of Electro Osmotic Flow and Heat Transfer in a Micro Channel for Microfluidic Applications	Gopal Ch Shit	5/11/2017	2032000	DST/01/S04 /018/0886	5/3/2017	R
6.	DST	ENGG	Removal of Pharmaceutical Derivatives Present in Waste Water by Advanced Oxidation Integration with Microstructure and Rotating Packed Bed of Grapheme(G)/Go-Metal Nanocomposites	Papita Das	5/24/2017	0	DST/01/E03 /014/0887	3/14/2017	R
7.	LPG	ENGG	Development of a High Efficiency Domestic LPG Stove Through Numerical Simulation	Amitava Datta	7/1/2017	601450	LPG/01/E15 /004/0880	7/1/2017	R
8.	ICS	SC	Potentiality Assessment of Sericulture as a Climate Resilient Livelihood in Cyclone Afected Areas of Indian Sundarban	Subarna Bhattacharyya	8/1/2017	200000	ICSS/01/S06 /009/0914	8/18/2017	R
9.	DST	ENGG	Structural Properties and Astrophysical Applications of Quantum Fluids	Radha Ballav Bhar	8/17/2017	3264360	DST/01/E11 /004/0884	7/24/2017	R
10.	DST	SC	Vaccum Deposition of Fluorinated Zinc Phthalocyanine and Oligothiophene Based Plasmonic Tandem Solar Cell	Partha Pratim Roy	8/17/2017	4614417	DST/01/S05 /033/0885	7/24/2017	R
11.	INSA	Arts	Practice of Folk medicine. A Study on the Folk Medicine of the Rajbanshis of Sub Himalayan Bengal in Historical Perspective	Rup Kumar Barman	10/1/2017	228000	INSA/01/A07 /006/0896	5/18/2017	R

Annual Report 2017-18

SI No.	Funding Agency	Faculty	Title	Co-Ordinator	Starting Date	Cost	Sanc. No.	Sanc. Date	Status
12.	SIC	SC	Application of Membrane Distillation to Reduce the Cost of the Deslination Component of Polyhydroxybutyrate rate production by Haloferax Mediterranei Utilizing Rice Based Ethanol Industry Waste	Joydeep Mukherjee	11/10/2017	1000000	SICI/01/S06/007/0894	10/3/2017	R
13.	DGH	ENGG	Role of Carbonaceous Materials and Cellulose Nano Fibres Polymeric Composite for treatment of Multiple Pollutants Present in Waste Water	Papita Das	12/15/2017	1950000	DGH/01/E03/014/0897	12/15/2017	R
14.	DST	SC	Study of Thermoelectric Magnetocaloric Magneto resistive and Other Thermo Physical properties of Huesler Alloys	Papri Dasgupta	12/20/2017	2720000	DST/01/S05/051/0888	12/8/2017	R
15.	DAE	ENGG	Application of QSARs for the Design of PET and SPECT Imaging Agents	Kunal Roy	1/5/2018	2792350	DAE/01/E14	11/29/2017	R
16.	ICSS	Arts	The Dwellers of Indo Bangladeshi Enclaves and Their Struggle for survival. A Study on the Indo Bangladesh Enclave Dwellers From 1947 to 2017	Rup Kumar Barman	2/16/2018	367500	ICSS/01/A07/006/0893	2/23/2017	C
17.	DST	ENGG	Novel Solutions Using Innovations on the Proposed LTE A D2D Communication Model for Smart Governance in the 5G Era	Bhaskar Sardar	3/19/2018	3656000	DST/01/E10/002/0898	3/16/2018	C
18.	DST	SC	Synthesis of Bismuth Oxyhalides and its Composites for Enhanced Photocatalytic Activity A Little Step Towards a Pollution free Environment	Subrata Sarkar	3/28/2018	3795000	DST/01/S05/053/0909	3/23/2018	C
			Total			31598827			
Status "R" indicates Running Status "C" indicates Current									

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Phone : + 91- 33 - 2414-6003/6004

Int. : 2457-2220

Controller of Examinations : Dr. Satyaki Bhattacharyya

E-mail : contollerexam@jadavpuruniversity.in

Major Achievement (1/4/2017-31/3/2018)

- Integrated Examination Management Module connecting all stakeholders of Examination process like students, faculties, staff, Exam Administrative Officer implemented through Jadavpur University Management system.
- Almost 6000 students, more than 500 faculties of Engineering, Arts, Science, ISLM including guest faculties, JU exam office staff (30 nos.) and officers have been brought into the system.
- Online marks uploading and result processing through automated hierarchical authorization system developed for JU Examinations.
- Various students' services like improved version of online grade card, student exam form fill-up, process of online provisional certificate developed.

OFFICE OF THE DEAN OF STUDENTS

Phone : + 91- 33 - 2414-6188

Int. : 2457-2279/2386

Dean of Students : Dr. Rajat Ray

E-mail : deanstudents@jadavpuruniversity.in

HOSTELS

Jadavpur University is not a residential university. However, we try our best to provide accommodation to needy students from areas outside Kolkata or from other parts of the country.

No. of Hostels:

(for Main Campus)	Total No:
• Boys Hostel (UG) – 04 Nos.	675 Boarders
• Boys Hostel (PG) – 03 Nos.	225 Boarders
• Boys Hostel (RS cum PG) – 01 No.	30 Boarders
• G.C. Sen Memorial Chhatrabas– 01 No. (Boys' Hostel) (Physical Education)	99 Boarders
• Women Hostel – 03 No.	540 Boarders

Annual Report 2019-20

(for Salt Lake Campus)

- Salt Lake Campus Hostel (Boys) – 01 No. 285 Boarders
- Salt Lake Campus Hostel (Girls) – 01 No. 47 Boarders

Name of the Hostel Superintendent as on 31/3/2018 :

Hostel	Superintendent
• A-1 Block Main Hostel	Sri. Tapan Jana
• A-2 Block Main Hostel	Sri. Tapan Jana
• B Block	Sri. Dipayan Datta
• C & D Block	Sri. Dipayan Datta
• New Block Hostel	Sri. Goutam Mukherjee
• Old P.G. Hostel	Sri. Goutam Mukherjee
• New P.G. cum R. S. Hostel	Dr. Tapan Ray
• New Boys Hostel	Dr. Tapan Ray
• G. C. Sen Memorial Hostel	Dr. Tapan Ray (Officiating)
• Women Hostel -1	Smt. Aparna Kar Chowdhury
• Women Hostel - 2	Smt. Gulsenara Khatun
• Women Hostel – 3	Smt. Keya Roy
• Salt Lake Campus Hostel (Boys)	Sri. Shibsankar Bhunia
• Salt Lake Campus Hostel (Girls)	Smt. Ashima Das
	Prof. Runu Bannerjee (Ray) (Part-Time)

FACILITIES AVAILABLE AT EACH HOSTEL:

T.T. Room, # Common Room, # Canteen, # Magazine & Newspapers, # Play Ground, # Television, # Visitors Room, # Security Arrangement, # Telephone, # Internet (Partial), # K.M.C. Drinking Water # Water Cooler cum Purifier .

• L.P.G. as Cooking Fuel at Hostel-Kitchens:

All the kitchens of the Jadavpur University Hostels have been equipped with Liquid Petroleum Gas (on subsidized rate) as cooking-fuel. So the cooking at the hostel has become very easy, instantaneous, hygienic, controlled with less time/effect in respect to earlier system (coal).

**Number of students applied for hostels and students allotted hostel seats in the year 2017-2018

U. G. (FRESHERS)

Category	Applied	Allotted
Boys	310	254
Girls	260	93

U. G. (NON-FRESHERS)

Category	Applied	Allotted
Boys	29	29
Girls	40	22

Annual Report 2019-20

P. G. (EXTERNAL)

Category	Applied	Allotted
Boys	125	68
Girls	90	49

P. G. (INTERNAL)

Category	Applied	Allotted
Boys	35	35
Girls	46	46

CONCESSION IN FEES

The concession in fees, in terms of full and half-free studentship, are awarded to needy students of the day – courses as well as evening courses (except Engg. evening students) on the recommendation of the University constituted Committee. After due notification by the Dean of Students, application forms, are issued at the beginning of the session, from the Office of the Dean of Students.

Following no. of students have been granted free-studentship in due year 2017-2018.

STATEMENT ON FREESHIP FOR THE SESSION 2017-2018

	Total App.	Full Free	Half Free	Total No. of Beneficiaries
ARTS				
1. Bengali	142	60	51	111
2. Comp. Lit.	02	02	-	02
3. Economics	07	03	-	03
4. Education	107	52	13	65
5. English	01	01	-	01
6. Film Studies	03	01	-	01
7. History	51	30	03	33
8. International Relations	31	29	-	29
9. Library Science & Info.	20	14	04	18
10. Philosophy	106	41	20	61
11. Physical Education	122	15	38	53
12. Sanskrit	189	57	42	99
13. Sociology	11	07	-	07
14. Linguistics	01	01	-	01
SCIENCE				
1. Chemistry	36	17	14	31
2. Geography	01	01	-	01
3. Geological Sciences	11	10	-	10
4. Instrumentation Science	02	02	-	02
5. Life Sc. & Bio-Tech.	06	04	01	05
6. Mathematics	53	42	03	45
7. Physics	58	51	02	53

Annual Report 2019-20

	Total App.	Full Free	Half Free	Total No. of Beneficiaries
ENGG. & TECH.(Main Campus)				
1. Adult Continuing	06	-	04	04
2. ACEE: (Journalism)	11	-	04	04
3. Architecture	04	03	-	03
4. Chemical Engg.	33	24	-	24
5. Civil Engg.	38	31	-	31
6. Comp. Sc. & Engg.	38	20	12	32
7. Electrical Engg.	34	28	-	28
8. E.T.C.E	16	15	-	15
9. F.T.B.E.	14	14	-	14
10. Mechanical Engg.	50	45	-	45
11. Metallurgical Engg.	11	11	-	11
12. Pharmaceutical Engg.	40	30	07	37
13. Production Engg.	20	19	-	19
ENGG. & TECH.(Salt Lake Campus)				
1. Construction Engg.	19	18	-	18
2. Information Technology	46	03	19	22
3. Instrumentation Engg.	18	17	-	17
4. Printing Engg.	18	17	-	17
5. Power Engg.	16	16	-	16

Free-Studentship Allotment -

(SC/ST/OBC/PH/ Minorities = 598

General Students = 390

Grand Total = 988 students)

FINANCIAL ASSISTANCE:

One time financial assistance has been given from University's Fund to the needy students for their continuity and effective study at Jadavpur University.

ARTS

19 students received financial assistance @Rs. 3000/- each.

35 students received financial assistance @Rs. 8000/- each.

SCIENCE

08 students received financial assistance @Rs. 3000/- each.

07 students received financial assistance @Rs. 8000/- each.

ENGG. & TECH.

22 students received financial assistance @Rs. 3000/- each.

09 students received financial assistance @Rs. 8000/- each.

Annual Report 2019-20

- In addition to granting free-ship and awarding Endowment Scholarship / Other Scholarship, few students were financially helped by the University for the Continuity of their study as special cases.

STUDENTS' UNION & ELECTION OF OFFICE BEARERS

As it is a unitary University with its teaching Departments, grouped into the three faculties of Arts, Science & Engineering & Technology, the university has three students' unions for the three faculties.

The Office Bearers of the three Students' Union on and from 01-02-2017.

ARTS FACULTY STUDENTS UNION

CHAIRPERSON

SOMASHREE CHOUDHURY,
INTERNATIONAL RELATIONS/B.A.-III/001400701060

GENERAL SECRETARY

DEBRAJ DEBNATH,
BENGALI/B.A.-II/001500101012

ASSISTANT GENERAL SECRETARY (DAY)

USHASI PAL,
PHILOSOPHY/B.A.-II/001500901004

ASSISTANT GENERAL SECRETARY (EVENING)

TAMAL MALLA,
SANSKRIT/M.A.-I/001601204041

FACULTY OF ENGINEERING & TECHNOLOGY STUDENTS' UNION

CHAIRPERSON

SOUGATA SINHA,
MECHANICAL ENGINEERING /B.E.-III/001411201060

GENERAL SECRETARY

AVIK DAS,
SCHOOL OF ENERGY SC. & TECH./M.TECH.-I/001630601014

ASST. GENERAL SECRETARY (MAIN CAMPUS - DAY)

ARUNASHIS MONDAL,
CIVIL ENGINEERING /B.E.-II/001510401017

ASST. GENERAL SECRETARY (SALT LAKE CAMPUS)

K. SRIDHAR (Pass Out)
CONSTRUCTION ENGINEERING /B.E.-III/001410601050

ASST. GENERAL SECRETARY (MAIN CAMPUS - EVENING)

SASWATA BANERJEE,
ELECTRICAL ENGINEERING/B.E.-II/001510803005

SCIENCE FACULTY STUDENTS UNION

CHAIRPERSON

AVIK DAS,
GEOLOGICAL SCIENCES/ M.SC.-I/001620402033

GENERAL SECRETARY

PUJA BARMAN,
PHYSICS/ B.SC.-II/001520701057

ASSISTANT GENERAL SECRETARY (DAY)

SOUMYADIP SEN,
CHEMISTRY/B.SC.-II/001520101061

ASSISTANT GENERAL SECRETARY (EVENING)

PAPI SARKAR,
PHYSICS/M.SC.-I/001620703024

ANTI-RAGGING ACTIVITIES

Jadavpur University has accepted all the directions / guideline issued by Hon'ble Supreme Court of India and regulatory bodies to eradicate ragging in the university campuses. Jadavpur University is working intensively from the very beginning of issue of such directions in the year 1998. Following activities (in brief) were taken up in the year 2016-17 to stop ragging in the campuses –

Actions taken for prevention of ragging in the year 2017-2018

1. The Anti-Ragging Committee and Anti-Ragging Squads (Departmental and Hostels) have been re-constituted as per the latest circular of the UGC on the title “UGC Regulation on Curbing the Menace of Ragging in Higher Educational Institutions, 2009.”
2. There are thirty-six departmental Anti-Ragging Squads, thirteen Hostel Anti-Ragging Squads and two Common Area Anti-Ragging Squads covering both the campuses.
3. The first Anti-ragging Committee meeting with the members of newly constituted body held on 23-06-2017, for taking actions for the year 2017-18.
4. Anti-Ragging Committee Meeting was organized inside the hostel premises on 21-07-2017.
5. First phase of Anti-Ragging Posters & Banners have been displayed in the month of June, 2017 to create awareness among the university community. Next phase of posterage was made in the month of July, 2017.
6. Issuance of ‘UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009’ in the form of booklet, to all the Head of the Departments was made on August, 2017.
7. Issue of ‘UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009’ in the form of booklet, to all the first year students (2017-18) of the University was made.
8. Circular has been issued by the Registrar of the University on 26-07-2017 about the constitution of the Anti-Ragging Committee and the Departmental & Hostel Anti-Ragging Squads with the names of the Anti-Ragging Committee members and their telephone numbers, wherein the responsibility and accountability of the university community towards curbing the menace of ragging was stated.
9. Registrar of the University has issued notice about the completion of the Freshers’ Welcome Programme within 15 days from the commencement (1st Semester) of UG (Freshers) classes and other allied items.
10. Letters have been issued to the affiliated colleges of the University for the Prevention and complete eradication of Ragging, if any, from the Institution with necessary documents.
11. Meeting was organized with all the hostels Anti-Ragging Squad Members for designing general step to stop ragging at the hostel premises at Main Hostel, Jadavpur Campus and Salt Lake Campus.
12. Interactive workshops on the issue of ragging was organized in association with Save (a NGO for Anti-Ragging Activities) held at the university.

Annual Report 2019-20

13. Interactive Workshop on the issue of Drug Abuse was conducted in association with Narcotics Department, Govt. of India to reduce the probability of incidence of ragging connected with drug addiction.
14. Dean of Students/University Authority addressed all the 1st Year students under the Faculty of Arts, Science and Engg. & Technology separately on the issue of Anti-Ragging measures during orientation programme held on the day of commencement of the classes.
15. Departmental Anti-Ragging Squads took necessary action on the issue of ragging at their respective department, under the chairmanship of Departmental Head.
16. Four numbers of big flex banners containing the names of Anti-Ragging Committee Members were posted in the months of June-July, 2017. Few more Anti-Ragging Banners, provided by Department of Higher Education, Govt. of West Bengal, were posted at the different places of the university campus.
17. Till date one complaint on ragging has been lodged and after due enquiry no one found guilty.

STUDENTS FOUND GUILTY OF RAGGING:

No Students found guilty of ragging as per the records.

OFFICE OF THE DIRECTOR OF PHYSICAL INSTRUCTION SPORTS BOARD

Int : 2457-2309

Director of Physical Instruction (Sr. Scale) : Dr. Aparup Konar

E-mail : dir.phy.ins@jadavpuruniversity.in

East Zone Level:

Name of the Competition	Sports Event	Position	Name of the Players	Present Class
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East Zone Inter-University Badminton (W) : Tournament 2017-18 . Badminton (Women)
3rdPlace : Sayani Paul Saheli Paul Smaranika Singh, PG-I (Econ) PG-II (Philo) UG-II (Hist)

East Zone Inter-University Chess (M) Championship 2017-18 : Chess (Men) **Runners Up** :
Arpan Das Kaustuv Kundu Raunak Mondal Satya Sekhar Mitra Aditya Chowdhury Sayan Mazumdar UG-I (Philo)UG-I (Geo.Sc) UG-I (Geography)UG-I (Philo) UG-II (Com.Sc.Eng) UG-II (Cheml Eng)

East Zone Inter-University Table Tennis (W) Tournament 2017-18 Table Tennis (Women)
4thPlace : Somali Sarkar Sangita Mistri Brototi Nandan, PG-II (I.R)PG-I (Eco)UG-I (Socio)

East Zone Inter-University Badminton (M) Tournament 2017-18 : Badminton (Men) **2nd Round**

East Zone Inter-University Basketball (M) Tournament 2017-18 : Basketball (Men) **Pre-Quarter Final**

East Zone Inter-University Basketball (W) Tournament 2017-18 : Basketball (Women)
Pre-Quarter Final

East Zone Inter-University Cricket (M) Tournament 2017-18 : Cricket(Men) **2nd Round**

East Zone Inter-University Kabaddi (M) Tournament 2017-18 : Kabaddi (Men) **Participation**
East Zone Inter-University Kho-Kho (W) Tournament 2017-18 : Kho-Kho (Women) **Participation**
East Zone Inter-University Table Tennis (M) Tournament 2017-18 : Table Tennis (Men) **3rd Round**
East Zone Inter-University Tennis (M) Tournament 2017-18 : Tennis (Men) **2nd Round**
East Zone Inter-University Volleyball (M) Tournament 2017-18 : Volleyball (Men) **Participation**

Inter Zonal Level:

Inter Zonal Inter-University Badminton (W) Tournament 2017-18 : Badminton (Women) **2nd Round**
Sayani Paul Saheli Paul Smaranika Singh PG-I (Econ) PG-II (Philo) UG-II (Hist)

Inter-Zonal Inter-University Chess (M) Championship 2017-18 : Chess (Men) **4th** Arpan Das Kaustuv
Kundu Raunak Mondal Satya Sekhar Mitra Aditya Chowdhury Sayan Mazumdar UG-I (Philo)UG-
I (Geo.Sc)UG-I (Geography)UG-I (Philo) UG-II (Com.Sc.Eng) UG-II (ChemlEng)

Inter-Zonal Inter-University Table Tennis (W) Tournament 2017-18 : Table Tennis (Women) **Q.Final**
Somali Sarkar Sangita Mistri Brototi Nandan PG-II (I.R)PG-I (Eco)UG-I (Socio)

All India Level:

World University Rowing (W) Championship 2018 held at Shanghai, China Rowing (Women)
2k.m Fours:7th Rank Shreyaa Brahmachari Shramana Saha Sweta Brahmachari Semanti Choudhury
PG-I (Chemistry)UG-I (English)UG-II (I.R)PG-II (Economics)

All India Inter-University Rowing (W) Championship 2017-18 : Rowing (Women) **2k.m Fours:Gold Medal**
500 m. Fours: Bronze Medal, Shreyaa Brahmachari Shramana Saha Sweta Brahmachari
Semanti Choudhury PG-I (Chemistry)UG-I (English) UG-II (I.R) PG-II (Economics)

All India Inter-University American Football (Flag Version-M) Championship 2017-18 : American
Football (Men) **3rd Position**, Subhodip Chatterjee Milind Khatiwada Poritosh Saini Anup Lepcha
Kunsang Bhutia Rigsum Tamang Dudh Kr. Malik Niang Yolmo Samir Roy Amit ManhasUG-IV
(B.E.Civil) UG-III (CL)UG-IV (Com.Sc.&Engg) UG-IV (Elec.) UG-III (IR) UG-III (IR) UG –
II (B.P.Ed.) UG-III (IR) UG-III (CL)UG-IV (Com.Sc.&Engg)

All India Inter-University Aquatics (M & W) Championship 2017-18 : Aquatics (Men & Women)
Participation

All India Inter-University Gymnastics (M & W) Championship 2017-18 : Gymnastics (Men & Women)
Participation

All India Inter-University Shooting (M) Championship 2017-18 : Shooting (Men) **Participation**

All India Inter-University Taekwondo (W) Championship 2017-18 : Taekwondo (Women)
Participation

All India Inter-University Yoga (W) Championship 2017-18 : Yoga (Women) **Participation**

Sports Achievements other than Inter-University for the session 2017-18:

Name of the Competition	Sports Event	Position	Name of the Players Present	Class
3 rd BRC Inter-College Rowing Championship 2018	Rowing (W) Indoor Rowing Fours	Gold Medal Silver Medal Gold Medal	Shramana SahaSweta Brahmachari Shreyaa Brahmachari Shramana Saha Sweta Brahmachari Semanti Choudhury,	UG-I (English) UG-II (I.R) PG-I (Chemistry) UG-I (English) UG-II (I.R) PG-II (Economics)

Annual Report 2019-20

2nd Interstate Challengers Sprint National Rowing Championship 2017 : Rowing (W) 'Double Scull' Rowing (W) 'Fours' **Gold Medal Gold Medal**, Shreyaa Brahmachari Shramana Saha PG-I (Chemistry) UG-I (English)

75th Amateur Rowing Association of East (ARAE) FEARA Regatta Madras-2017 : 'ARAE Open Women IX'. **Bronze Medal**, Sweta Brahmachari UG-II (I.R)

67th Senior National Basketball Championship 2017 'Basketball' (W) **Represented West Bengal** Swagata Dey PG-I (Bengali)

56th Senior Artistic Gymnastics National Championship 2018 : Gymnastics (W) Artistic Gymnastics Team Championship **1st Position Represented West Bengal** Debangana Ghosh UG-I (Philosophy)

Khel Samman Award 2018 presented by Hon'ble Chief Minister Smt. Mamata Banerjee Shooting (M) **50,000/- Cash under Khelashree** Subhankar Pramanick UG-II (IR)

RFYS Inter-College Athletics Meet 2017 Athletics (M&W) **Long Jump (M) : Silver Long Jump (W) : Silver Triple Jump (M) : Bronze High Jump (W) : Bronze 4x100m Relay Race (M) : Silver 4x100m Relay Race (W) : Silver** : Ayan Dhara Mousumi Hazra Ayan Dhara Babli Pal Debdas Sardar Sanjay Saren Buddhadeb Sarkar Sougata Patra Mousumi Hazra Babli Pal Lakshmi Priya Senapati Krishna Mandal : BPEd-I BPEd-I BPEd-I BPEd-I BPEd-I BPEd-I BPEd-I BPEd-II BPEd-I BPEd-I BPEd-II BPEd-I. **4x400m Relay Race (M) : Silver** : Ashish Bose Prodip Mondal Rahul Swarnakar Bibek Ghosh : BPEd-I BPEd-I BPEd-I BPEd-II

RFYS National Athletics Championship 2017 : Athletics (M) : **4x400m Relay Race (M) : 4th Position** Ashish Bose Suddhadeb Gharui Rahul Swarnakar Bibek Ghosh : BPEd-I BPEd-I BPEd-I BPEd-II

Ajoy Ghosh Memorial Trophy Cricket Tournament 2017-18 : Cricket (M) **Participation**

Inter-University T-20 Cricket Tournament 2017-18 : Cricket (M) **Quarter Final**

Inter-University Inter-College T-20 Cricket Tournament 2017-18 : Cricket (M) : **Participation**

Reliance Foundation Youth Sports (RFYS) Inter-College Football Tournament 2017 : Football (M) **Quarter Final**

Kawanabe Budokan Headquarters, Japan : Karate (W) **Black Belt** : Asmita Chaudhuri, PG-I (Bengali)

Co-curricular Activities 2017-18:

Karate Coaching Programme: Jadavpur University Karate coaching programme is running successfully under supervision of Karate Instructor and Lady Karate Instructor twice in a week at OAT for all the students including girls of JU with the aim to promote self-defense activity in the university under the aegis of Sports Board.

Multi-Gym & Fitness Training Centre: As a University with a vision, Sports Board encourages activities like Multi-Gym & Fitness Training with Weight & Power Lifting for the development and promotion of health & sports performance for all the students including girls of JU every Monday to Friday at the Main Campus under the guidance of Gym Trainer and Lady Gym Trainer.

OFFICE OF THE DIRECTOR OF YOUTH WELFARE

INT : 2457- 2247

Sr. Director of Youth Welfare : Dr. Bappa Mullick

diryw@admin.jdvu.ac.in

Jadavpur University students did well in the co-curricular areas in the year 2017-18. There was a steady growth in students' participations at various levels, including students clubs / societies, intra-murals, extra-murals etc. wherein they demonstrated their zeal for participation in cultural, literary, artistic and adventure sports' activities. Students also exhibited their competence, coordination and enthusiasm in organizing of major events independently and while assisting the university. It was heartening to see the camaraderie and understanding amongst the members of various clubs in organizing of events, assisting in finding sponsors, and in sharing of rooms for their sessions. The Science Club, JUMHC, JUPC, QFDS, Music Club, Drama Club, Art & Literary Society, Painting Club and the Chess Club attracted huge memberships, and were the most active clubs with overwhelming participation from the new entrants. Outreach activities of office were also well attended by the students of various clubs and JU students in general.

Details of major participations, achievements and events:

- A 27-member contingent of University students participated at the **33rd AIU Inter-University Youth Festival** at Guwahati University and Ranchi University respectively for the Zonals and Nationals. Taishi Nandi won the 1st position at Zonal and 2nd position at National in Light Vocal (solo) event. ArneshKhatua won the 3rd position both in Zonal and National in Western Instrumental (solo) event. Arunabho Banerjee, AnikDasgupta and Prattay Das won the 4th position in Quiz event.
- **The Jadavpur University Mountaineering and Hiking Club (JUMHC) organised an expedition to Mt. CB 13(6264 m)** and successfully summit it. The Summit members were JoydevBarui, Siddhartha Biswas, Keshavanand Singh, Satyam Kumar while the Base Camp members were Prashant Choudhary, Manish Das.
- **1st Foundry Photojournalism Workshop in JU:** Foundry Photojournalism Workshop is a globally reputed Organisation which conducts its workshops in different continents each year. They offer participants from across the globe to learn Photography and its nuances from the world's most reputed Photojournalists and professionals in the business. It was an honour for JUPC and the university that the Foundry, thought it apt to organize 2018's event in JU, in light of prolific involvement of JUPC in photographic domain. The Event consisted of 12 workshops being conducted by 12 World Famous Professional Photographers from around the world, simultaneously. Students who attended the Workshops came from different parts of the world along with members of JUPC participating in the workshop as well. The highly successful event got rich acclaim from all photographic circuits.

**33rd AIU INTER-UNIV. YOUTH FEST (ZONAL) AT GUWAHATI UNIVERSITY,
GUWAHATI, ASSAM , January 5-9, 2018**

Merit list

- Arunabho Banerjee, English – Group 4th in QUIZ
- Anik Dasgupta, Comp. Sc. – Group 4th in QUIZ
- Prattay Das, Comp. Sc. – Group 4th in QUIZ
- Arnesh Khatua, Prod. Engg. – 3rd in WESTERN INSTRUMENTAL SOLO (Spanish Guitier)
- Taishi Nandi, Comp. Litt. - 1st in LIGHT VOCAL(solo)

**33rd NATIONAL AIU YOUTH FEST(NATIONAL) VENUE – RANCHI UNIVERSITY,
RANCHI, February 16-20,2018**

Merit list

- Taishi Nandi, Comp. Litt.– 1st in LIGHT VOCAL (solo)
- Arnesh Khatua, Prod. Engg. – 3rd in WESTERN INSTRUMENTAL SOLO (Spanish Guitier)

JU STUDENTS CLUB/SOCIETIES ACTIVITIES

JU Photographic Club (JUPC)

- Jadavpur University Photographic Club (JUPC) provided students with photographs of their degree receiving moments on Annual Convocation Day, like in the previous years.
- JUPC organized Basic Training Course on Photography for the Freshers in the month of August, 2017 on the following dates:
- A course on Fundamentals of Photoshop was held, like every year, at the OPT Seminar Hall (Mrinmoyee Madhusudan Hall, 2nd floor, Amenities Centre Building). It was a three-day workshop on Adobe Photoshop, **conducted by JU Photographic Club (graphic Design group, JUGDG).**The introductory class was an introduction to the application of Photoshop tools. On the second class, the freshers were exposed to working with layers, blending options and creating a photo frame. The final class was on rendering. They were also taught to prepare a good CV and to use various individual elements to create a composition.The introductory class had a turnout of **43**freshers. The enthusiasm among them is a remarkable matter and it seems they have found JUGDG as a way to harness this passion. On completion of the course, certificates were distributed. Komal Shah (B.Architecture, UG V), Sk. Kamaluddin (B.Architecture, UG V), Sunandan Paul (B.Architecture, UG V) and Priyanka Chowdhury (B.Architecture, UG II) were the programmeconvenor of the above said event.

JU Painting Club

Jadavpur University Painting Club organized Picturesque which included a series of fine arts events like cartooning, collage making and rangoli, poster making, mehendi art, on spot painting, charcoal art, hand/ face painting, junk art as well as clay modelling and graffiti . All events were held on the second floor of the AC Canteen.

The event was held only for the Freshers and for the five days of Picturesque, many signed up for multiple events. Each event had three winners and their scores were automatically added

on the JuX app for the grand finale of the JU Journal Freshers'. Many of the participants later went on to register with the club, as permanent members.

Picturesque allowed the freshers from all departments to show their talents and produce some incredible pieces of art.

JU Mountaineering & Hiking Club (JUMHC)

Achievements / Participations of JUMHC

In June 2017, JUMHC student members participated in **Mt. Menthosa Expedition (6443 meters)**. 8 student members were a part of this expedition along with 4 senior passout members made their full efforts to climb, but due to adverse weather conditions they climbed down with only 300 metres away from summit point.

Also during June 2017, 4 students of Jadavpur University completed **Basic Mountaineering Course** from **ABVIMAS, Manali**.

During October, 2017, a team of 8 completed Sandakphu Trek in 4 days in which 3 were BMC members.

JUMHC conducted 3 Rock Climbing practices at Susunia Hills (1) and Mathaburu Hills (2) during the span of September to October, 2017. JUMHC conducted another Rock climbing course at Mathaburu Hills during January, 2018.

During February 2018, many students from JUMHC participated in the Annual Salt lake Artificial wall Climbing Competition. The final top ranks from club were 4, 9, 17 in top 20. Around 13 students participated in that event.

JU Science Club

IMAGINEER is the trademark workshop of **Jontro Tontro**, the official Tech-Fest of Jadavpur University Science Club (JUSC). It was first organised in 2016 and it is being held for the third consecutive time owing to the overwhelming response. The workshop aims at promoting the ideas of image processing which finds applications in various cutting edge technologies, ranging from detection of cancerous cells in medical scans to self-driving cars. The theoretical concepts are carefully woven with the hands on session in MATLAB to give the participants an immersive experience of this wonderful topic. Although it was specially designed for the freshmen, the workshop was open to all enthusiasts.

A total of **44** student members attended the workshop. 35 of them were from Jadavpur University, 6 from Techno India Salt Lake, 1 from AMITY University, 1 from IEM and 1 from Heritage Institute of Technology. The overall participation has increased notably from last year.

Professor Sanjoy Kumar Sarkar of Computer Science and Engineering Department, Jadavpur University was chief guest and opening speaker. The rest of the workshop was conducted by the senior members of Jadavpur University Science Club, Supratik Sarkar, 4th year, Electronics and Telecommunication engineering; Subhashis Bhowmik, 4th year, Electrical Engineering and Vivek Roy, 3rd year, Computer Science and Engineering.

The workshop was a great success with very good feedback from the participants. They put forward various suggestions on the topics for future workshops.

- **Innovision** is the most notable event of **Jontro Tontro**, the official Tech-Fest of Jadavpur University Science Club (JUSC). It has been organised regularly without fail every year since

Annual Report 2019-20

2013. The event had The Institution of Engineering And Technology (IET), UK, Kolkata Local Network as the title sponsor. Innovision is only event of Jadavpur University which is organized solely for the purpose of promoting robotics among the Freshmen. The event is of “Go As You Like” type with the main theme being Robotics and Technology. This year, the participants had to provide ideas and prototypes in the form of a presentation and/or a working demo.

A total of **12** teams participated for the event each comprising of an average of **3** members. Out of the 12 participating teams 10 were from Jadavpur University, 1 from AMITY University and 1 from Heritage Institute of Technology. The overall participation has increased notably from last year.

The event was a huge success. The ideas presented by every team were noteworthy.

Apart, from the participants, the audience comprised of students from different disciplines of Jadavpur University. The vast hall of TEQIP-209 was filled by more than half of its full capacity.

The judges for this event were Achintya Mukhopadhyay, Professor of Mechanical Engineering at Jadavpur University and Tapabrata Mondal, Research Scholar of Computer Science and Engineering at Jadavpur University.

The participants were marked according to the clarity of their presentation, Innovation and practicality of implementing the idea on a large scale.

Top three teams were declared by the judges all of which were from Jadavpur University with a cash prize of 1st place: 5,000 INR, 2nd place: 3,000 INR, 3rd place: 2,000 INR

- **MindSweeper** is the coding event of JontroTontro, the official Tech-Fest of Jadavpur University Science Club (JUSC). This event was introduced this year with the main aim of familiarising the freshers with the concept of competitive coding. The contest consisted of four ad-hoc based problem with varied difficulty. Each problem had a predetermined score according to their complexity. The total score was 200. Each contestant was given 2 hours to solve those questions. A participant's score depended on the number of test cases a participant's code submission successfully passed.

The moderators and problem setters for this event were Agniva Kolay and Dibyadip Chatterjee, both are from the department of Electronics and Telecommunication Engineering(second year), Jadavpur University.

Top three participants were declared by HackerRank, all of which were from Jadavpur University with a cash prizes of 1st place: 500 INR, 2nd place: 300 INR, 3rd place: 200 INR

JU Quiz Forum

Jadavpur University Quiz Club Achievements in 2017-2018

1. **FIRST** – General Quiz at Sanskriti 2018, Jadavpur University
2. **FIRST** – Inquizition 2017, Jadavpur University Freshers' Quiz

Annual Report 2019-20

3. **FIRST** – Question Mark 2018, RCCIIT
4. **SECOND** – Chembridge Quiz 2018, Department of Chemical Engineering, Jadavpur University
5. **SECOND** – Decades Quiz, Calcutta Medical College
6. **SECOND** – Exabyte Quiz by Department of Computer Science, St. Xavier's College, Kolkata
7. **SECOND** – Fandom Quiz at Milieu 2018, Presidency University
8. **SECOND** – General Quiz conducted by Catalyst Learning Services at Srijan 2018, Jadavpur University
9. **SECOND** – U-25 General Quiz, Gyandhara 2018, IEST Shibpur
10. **SECOND** – Xavotsav General Quiz, St. Xavier's College, Kolkata
11. **THIRD** – Amal Ghatak Memorial Quiz 2017, Loreto College, Kolkata
12. **THIRD** – Biz Tech Quiz at Spring Fest 2018, Indian Institute of Technology, Kharagpur
13. **THIRD** – Fandom Quiz, Kolkata Quiz Festival 2018
14. **THIRD** – General Quiz at Milieu 2018, Presidency University
15. **THIRD** – History, Art & International Relations Quiz, Heritage Quiz Festival 2018
16. **THIRD** – Instruo 2017, Indian Institute of Engineering Science and Technology, Shibpur
17. **THIRD** – Loreto Shield Quiz 2017, Loreto College, Kolkata
18. **THIRD** – M: The Movie Quiz 2017
19. **THIRD** – Pop Culture Quiz, Heritage Quiz Festival 2018
20. **THIRD** – Sports Quiz at FETSU Sanskriti 2018, Jadavpur University
21. **THIRD** – Tata Crucible Campus Quiz 2018, Kolkata Regional Round
22. **FOURTH** – Kolkata Quiz Festival 2018, Silver Plate (Open Quiz)
 - The quiz club of Heritage Institute of Technology, Kolkata in association with JU Quiz Forum hosted their Annual Quiz Festival, held on March, 2018 with a footfall of 100 pupil each day. The programme was held at TEQIP Building, JU, with a duration of 8 hours programme.
 - JU Quiz Forum organized annual inter-college Fresher's Quiz on September, 2017 with a footfall of more than 100 students. The prelims conducted on the 4th and followed by the finals on 5th.

Jadavpur University Chess Club

- JU Chess Club conducted regular sessions of chess almost on a daily basis throughout the year. The total membership of the club increased manifold.
- There was a training session for chess enthusiasts hosted by the JU Chess Club in January 2018 which was attended by 30 students.
- JU Chess Club organised intra-university chess tournament during the month of January, 2017,

with a participation of 40 students. The tournament was held up at OPT Seminar Hall, AC Canteen Building.

Jadavpur University Art and Literary Society (ALS)

In 2017 the JU Journal, the subsidiary of The Jadavpur University Arts and Literary society took a bold step of bringing together various clubs and societies of JU in an attempt to bring together the students of this vast university who barely know anyone beyond their own department. The result was the following list of events which took place under the banner of The JU Fresher's 2017.

The Jadavpur University Arts and Literary Society (JUALS)

The JUALS in collaboration with the JU Journal had their own event called INKREDIBLE. INKREDIBLE was trilingual creative writing competition. The Participants could write in English, Bengali or Hindi and in either prose or poetry style. The event was held at the Engineering Science Building. The two topic given on spot were 'Why JU?' And 'Why am I here?'

Jadavpur University Music Club

The JU Journal's collaboration with the Music Club for the event *Dial M for Music* lived up to it's hype. On 28th August, TEQIP was witness to a massive turnout of first year students from all departments of the university, eager to showcase their musical prowess.

Saptak Mondal with his powerful voice won the Vocals Section, followed by Arunava Sen, who came second.

Sushrita Ganguly bagged the first prize in Instrumental Section

Another part of Jadavpur University Music Club, i.e. Dance Wing conducted its first workshop on the 17th of August. The workshop was taken by the eminent dancer Samir Gore. With the huge proportion of participation from the dance enthusiasts and the dancers of the university, it witnessed an immense success. With the collaboration with JU Art and Literary Society, the Dance Wing witnessed its first event, Taal, on 1st September, 2017. The event saw amazing performance of solo, group duet.

The Dance Wing, part of JU Music Club, had gradually grown to become a fully functioning club in Jadavpur University. The club participated in the Goonj (a cultural fest organised by Xaviers' Clubs and Societies) and bagged the 1st position (both band and duet) in dance and music event

Jadavpur University Mountaineering and Hiking Club

In the spirit of connecting the new students which doesn't limit itself to just the main campus, the Mountaineering and Hiking Club of JU organized a rock climbing competition for fresher's at the artificial rock climbing wall situated at the Salt Lake Campus, "Rise".

Jadavpur University Drama Club

On 1st September 2017, JUDC had it's successful first inter departmental drama event, Natyabhabna. The event witnessed participation from department of Chemistry, Math, English, CL, Economics, IR, Sociology and a cross department team to represent the whole of Engineering. Eventually IR team took the trophy with English team in the second place and Economics team

in the third. Ritwika Pal from IR was given the award of best actress and Anutosh Singha from English, the best actor.

Jadavpur University Photographic Club (JUPC)

Unlike other clubs and societies, the Photography Club, Instead of organizing event or competitions had Basic Training Sessions' 17 (BTS' 17) which included Theoretical and Practical sessions. The freshers were asked to register themselves to be a part of JUPC and gradually participating in BTS' 17 made them a contestant in Freshers' 2017 by default.

JUPC organized three theoretical and three practical sessions as a part of BTS' 17.

They also had their first theory class on August 2017, 5:30 p.m onwards in KP Basu Memorial Hall. The topic was 'Introduction to Photography'. And gradually the theory class was followed by the first practical session of BTS' 17 which was organised in Victoria Memorial on August.

Second theoretical class was conducted on August, K.P Basu memorial hall, topic-Art movements and evolution of photography as an art form, second practical session at RabindraSaroar Lake, Third theoretical class was on Topic-Exposure and depth of field. Third practical session in Alipore Zoological garden

JUPC chose the rank holders on the basis of their participation in all the sessions. Thus, the points from this club were added to the leader board based on the participation of a particular fresher in all the six sessions/classes.

JU Music Club

Musical concerts Annual Convocation and Prof. G.C. Sen Memorial Ceremony

Student-participants of JU, led by **JU Music Club**, took part at the **Annual Convocation** and **Prof. G.C. Sen Memorial Ceremony** on 24th December 2017 and 30th December 2017, respectively. The participants were Smt. Ivy Adak, staff of Bengali Dept., Sutirtha Mazumdar, History Dept. Saptak Mondal, English, Rudra Sabarna Dutta, IR Dept., Dept. Soutik Roy, Mech. Engg. Dept. and Debajyoti Das, Chemical Engg. Dept.

JU Debating Society

The academic session 2017-18 was a very fruitful one for the Jadavpur University Debating Society (JUDS). Convened by Shaberi Das and Dibyajyoti Basak, the society participated in various debates, Model United Nations conferences and Parliamentary debates across the city. In addition, the society successfully organized several events with support from the office of the Director of Youth Welfare.

VoxPop, the annual fresher's debate, was organized on 16th and 18th of August 2017 at KP Basu Memorial Hall. Judged by the eminent Ms. Sudeshna Roy and Ms. Anuttama Banerjee, the event was well-attended and extremely competitive. The winners of the debate were Deepyaman Dey and Ritwika Pal (both IR UG-I). The runners-up were Emilia Henkel (IR-UGI) and Shubhangi Dutta (Economics-UGI).

The Intra-Model United Nations Conference (I-MUN) was yet another event of the society, aimed at providing freshers with an opportunity to learn about this format of debate. Held on August 2017 at TEQIP, was popularly received among participants from across the campus, with several interested students forming an MUN delegation to represent the university at the KIIT

International Model United Nations 2017, where they duly won the Best Delegation award for the third year running.

The Great Britain Debate was also organized by JUDS, in association with the British Deputy High Commission, on October, 2017. A high-profile, which was judged by eminent debating personalities of the city and participated in by 30 colleges, this event was a huge success. Prithviraj Tankha and Kritika Jalan of St.Xavier's College won the debate while Jadavpur University, represented by UjaanGanguly and Tannistha Sinha, came second. The British Deputy High Commissioner Bruce Bucknell was extremely appreciative of the society's efforts and even honoured the volunteers at a reception at his residence.

The fifth edition of the Jadavpur University Model United Nations Conference (JUMUN 2018), the annual Model United Nations conference hosted by JUDS, was held on the 29th-31st of March. Hosting 700 delegates from various parts of the country, as well as Bangladesh and Nepal, the event was most illuminating one for all involved. In the run-up to the event, the society organised MUN workshops in over 15 educational institutions in the city, such as Techno India, Loreto College, Dolna Day School, St. Lawrence High School, Our Lady Queen of the Missions School, Salt Lake, The Heritage School, Ashok Hall, The Future Foundation School and Apeejay School. The event had 8 committees which debated on issues ranging from gender equality to land degradation, from India's annual budgetary allocation for education to learning about the intricacies of the Security Council. Being the first opportunity for many school and college students to seriously engage in such relevant issues and bring about positive changes in the world. It was a grand success, the event boasted of an illustrious Executive Board comprising the very best debaters in the South Asian MUN circuit.

Overall, this year has seen JUDS establish itself as a debating and oratory institution in academic circles across the country, both by achieving consistent success in public speaking competitions and organising hugely successful public speaking events. The conveners would like to thank the members of JUDS who have won much acclaim for the university, as well as the office of the Director of Youth Welfare for their constant guidance and logistical support. We would also like to thank the staff in the university offices who have been integral to the society successfully hosting so many events.

Notable achievements of some JUDS members

Calcutta Medical College extempore- **3rd prize** - Prithwiraj Basu

Loreto College Ecolore debate- **Best team** - Prithwiraj Basu and Akash Choudhury

St Xavier's College Exabyte debate-**Best team** - Prithwiraj Basu and Akash Choudhury

Shyama Prasad College Spardha- **Runners-up** speaker against - Prithwiraj Basu

Indian Statistical Institute Contrapunto Debate 2018 - **Best Speaker** - Tannistha Sinha

Lions Club International Dare to Debate 2018 - **Best Team** - Reeswaj Chatterjee and Tannistha Sinha

Great Britain Debate 2017 - **Runners-up team** - Tannistha Sinha and Ujaan Ganguly

State Bank of India Extempore Debate - **Best Speaker** - Tannistha Sinha

Colloquium'17 Parliamentary Debate organized by Heritage Institute of Technology - **Winner** - Ujaan Ganguly

Best Speaker Award at Chemathlon Debate 2018 - Ananda Shankar Laha

3rd position at the Declamation Contest organized by Indian Railways for Vigilance Awareness Week in 2017 - Ananda Shankar Laha

KIIT International Model United Nation Conference 2017 - **Best Delegation**

BESC Assembly of Nations 2017 - **Best Delegation**

Ravenshaw University Model United Nation Conference 2017 - **Best Delegation**

IGIT Model United Nations 2018 - **Best Delegation**

Other Activities/Responsibilities towards promotion and welfare of students

Best All-Round Graduates and Post-Graduate Awards 2017

The processing and selection for the recipients of the Annual Best All-Round Graduates and Post-Graduate awards 2016 was carried out by the office. Following are the award winners:

Best All-Round Graduate Award for the year 2017

1. Prativamoyee Gold Centered Silver Medal for the Best All-Round Female Graduate (including all the Faculties): **Tannistha Sinha**
2. Alumni Association Gold Centered Silver Medal for the Best All-Round Graduate combining all the three faculties: **Amitrajit Sarkar**
3. Purna Chandra Laha Silver Medal for the Best All-Round Graduate including all the faculties: **Amitrajit Sarkar**
4. Prafulla Kanti Banerjee Silver Medal to be given to the Best All-Round Graduate from the remaining two faculties: **Tannistha Sinha**
5. Monibala Roy Gold Centered Silver Medal to be awarded to the Best All-Round Girl Graduate of the Engg. & Tech. Faculty only: **Mohar Bhattacharya**
6. Dipak Kumar Choudhury Memorial Gold Centered Silver Medal for the Best All-round Graduate combining all the three Faculties: **Amitrajit Sarkar**

Best All-Round Post-graduate Award for the Year 2017

1. B. D. Mukherjee Memorial Gold Centered Silver Medal for Best All-Round Post Graduate Award : **Sumanta Daw**

- **“Personal Accident-cum-Medical Insurance for students of Jadavpur University”**

Below is the list of students who got the claimed amount for the session 2017-18

1. Nazibul Gazi -	11,180.00/-
2. Pralay Kanti Sarkar -	25,000.00/-
3. Debjani Jana -	7,454.00/-
4. Md. Noor Alam -	25,000.00/-
5. Prodip Mondal -	330.00/-
6. Sayed Tahasinul Ahasan Rine -	2,055.00/-
7. Ruma Mondal -	6397.00/-
8. Debjani Bhanja -	25,000.00/-

SC/ST Cell

INT: 2457-2580/2632

Sr. Asst. Registrar & Member Secretary : Dr. Kaniska Sarkar

(JU Main Campus)

Scheduled Caste and Scheduled Tribes have been identified as the two most backward groups of Indian Society. They include all such castes, races or tribes which have been declared as scheduled castes and scheduled tribes by the Constitution of India under the provisions of Article 341 & 342. According to Census 2011 population of Scheduled Castes at 16.6 per cent and Scheduled Tribes at 8.6 per cent, together are forming a quarter of the total population in India.

Jadavpur University has established a SC/ST Cell in 2007 for the benefit of the University students and employees belonging to SC/ST community. Its function is also to help the students and employees belonging to SC/ST categories to integrate with the mainstream of the University community and to remove difficulties which they may be experiencing. The cell was constituted as a measure of strengthening the implementation machinery for planning, evaluation and monitoring of the policies of the Govt. of India as well as Govt. of West Bengal in the field of higher education and also the programmes of the University Grants Commission with the objective to improve the life style of SC/ST candidates and to lift up them to the general level as compared to the other communities. The cell is monitoring the reservation policies a laid down time to time by the Govt. of West Bengal. It also provides information on fellowship and other activates to the SC/ST candidates. The SC/ST Cell has taken up problems of the SC/ST students and employees with the university authorities and has solved some of them amicably. The cell has been a user friendly counsellor to all SC/ST employees and students. The cell is collecting and furnishing statistical date and other information which the Govt. Of India and UGC as well as other agencies like MHRD, SC/ST welfare and National Commission for SC/ST may seek pertaining to the welfare of the SC/STs allied matters. This cell also replies to the Parliamentary questions on reservation from Loksabha and Rajya Sabha in different time.

This year the University has reconstituted the administrative committee comprising the following persons for the purpose of monitoring the cell smoothly: -

Prof. Suranjan Das, Hon'ble Vice Chancellor, JU	CHAIRMAN.
Prof. Subarna Kumar Das,	Dept. of Lib. & Inf. Sc., LIASON OFFICER.
Prof. Debasish Lohar,	Dept. of Physics.
Prof. Priti Kumar Roy,	Dept. of Mathematics.
Prof. Sanjib Mridha,	Dept. of Physical Education.
Prof. Papita Das,	Dept. of Chemical Engg.
Dr. Sudhanbindu Roy,	Dept. of ETCE.

Annual Report 2019-20

Dr. Prokash Ch. Roy,

Dr. Ratan Mondal,

Dr. Kaniska Sarkar,

Dept. of Mechanical Engg.

School of Energy Studies.

Member Secretary.

This year the Cell organised the following free coaching for the students.

- 1) COMMUNICATIVE ENGLISH AND SOFT SKILL DEVELOPMENT.
- 2) REMEDIAL COACHING AT DIFFERENT DEPARTMENTAL LEVEL.
- 3) ENTRY IN SERVICE LIKE SSC, WBCS Etc.
- 4) COACHING FOR NET/ SET / GATE.

A large number of students were benefited by acquiring the special knowledge of English language, communicative skill, NET, SET as well as GATE and got job in different sectors.

Hon'ble Vice Chancellor suggested constituting a committee with at least one external expert to look after and implement the reservation policy especially in student admission and recruitment of staffs of the University. Thus the new committee is constituted with following panel of members:

1. External expert member
2. Prof. Debasish Lohar, Dept. of Physics, Faculty of Science
3. Prof. Sanjib Mridha, Dept. of Physical Education, Faculty of Arts
4. Dr. Prokash Ch Roy, Dept. of Mechanical Engg. FET
5. Dr. Ratan Mandal, School of Energy Studies. Faculty of ISLM
6. Dr. Kaniska Sarkar, Asst. Registrar. (Convener)

Responsibilities of this new committee: -

- i. The committee will crucially check all notices and merit lists for the admission of students.
- ii. The aforementioned committee will crucially check all notices and lists/panel of successful/ unsuccessful candidates for the recruitment of university employees.
- iii. SC/ST cell may refer any related tasks which comes under the purview of the cell to the aforesaid committee where expert opinions are required.
- iv. The convener of this committee will call for a meeting when it is required/requested by the SC/ST Cell.

Annual Report 2019-20

SECTION A
[As ON 31.03.2019]

ANNEXURE I

Annual Report 2017-18

FACULTY PROFILE

(As on 31.03.2018)

ARTS & ISLM

SL.	Department	Name	Present Desg.
Bengali			
1	Bengali	Dr. Achinta Biswas	Professor
2	Bengali	Dr. Udaya Chakraborty	Professor
3	Bengali	Dr. Gopa Datta	Professor
4	Bengali	Dr. Sekhar Kumar Samaddar	Professor
5	Bengali	Dr. Sampa Chaudhuri	Professor
6	Bengali	Dr. Ananya Baruya	Professor
7	Bengali	Smt. Sutapa Sengupta	Asso. Professor
8	Bengali	Sri Saswata Bhattacharya	Asst. Professor
9	Bengali	Dr. Abdul Kafi	Asst. Professor
10	Bengali	Dr. Barendu Mandal	Asso. Professor
11	Bengali	Dr. Rajayeswar Sinha	Asso. Professor
12	Bengali	Dr. Joydeep Ghosh	Asst. Professor
13	Bengali	Dr. Payel Basu	Asst. Professor
Comparative Literature			
14	Comparative Literature	Dr. Ipshita Chanda	Professor
15	Comparative Literature	Dr. Suchorita Chattopadhyay	Professor
16	Comparative Literature	Dr. Kavita Panjabi	Professor
17	Comparative Literature	Dr. Kunal Chattopadhyay	Professor
18	Comparative Literature	Dr. Samantak Das	Professor
19	Comparative Literature	Dr. (Smt.) Sucheta Bhattacharya	Professor
20	Comparative Literature	Sri Aveek Majumder	Asst. Professor
21	Comparative Literature	Dr. Sujit Kr. Mandal	Asso. Professor
22	Comparative Literature	Dr. Sayantan Dasgupta	Asso. Professor
23	Comparative Literature	Dr. (Smt.) Debashree Datta Ray	Asst. Professor
24	Comparative Literature	Smt. Epsita Halder	Asst. Professor
25	Comparative Literature	Dr. Partha Sarathi Bhowmik	Asst. Professor
26	Comparative Literature	Dr. Sumit Kumar Barua	Asst. Professor
Economics			
27	Economics	Dr. Goutam Gupta	Professor
28	Economics	Dr. Asim Kumar Karmakar	Asso. Professor
29	Economics	Dr. Ajitava Raychaudhuri	Professor
30	Economics	Dr. Joyashree Roy	Professor
31	Economics	Dr. Rajat Acharyya	Professor
32	Economics	Dr. Ambar Nath Ghosh	Professor
33	Economics	Dr. Siddhartha Mitra	Professor
34	Economics	Dr. Malabika Roy	Professor
35	Economics	Dr. Arpita Ghose (nee Dhar)	Professor
36	Economics	Dr. Jugaratan Barman	Asso. Professor

Annual Report 2017-18

37	Economics	Dr. Saikat Sinha Roy	Professor
38	Economics	Dr. Vivekananda Mukherjee	Professor
39	Economics	Dr. Sushil Kr. Haldar	Professor
40	Economics	Dr. Amit Kundu	Professor
41	Economics	Dr. Tanmoyee Banerjee Chatterjee	Professor
42	Economics	Dr. Swapnendu Bandyopadhyay	Professor
43	Economics	Smt. Soma Mondal	Asst. Professor
44	Economics	Dr. Sanmitra Ghosh	Asso. Professor
45	Economics	Dr. Vikas Dixit	Asst. Professor
46	Economics	Dr. Bidisha Chakraborty	Asso. Professor
47	Economics	Dr. Poulomi Roy	Asst. Professor
48	Economics	Dr. Simontini Das	Asst. Professor
49	Economics	Dr. Rilina Basu (Banerjee)	Asst. Professor

English

50	English	Dr. Ananda Lal	Professor
51	English	Dr. Amlan Das Gupta	Professor
52	English	Dr. Nilanjana Gupta	Professor
53	English	Dr. Prodosh Bhattacharya	Professor
54	English	Dr. Santanu Biswas	Professor
55	English	Dr. Chandreyee Niyogi	Professor
56	English	Dr. Abhijit Gupta	Professor
57	English	Dr. Paromita Chakravarti	Professor
58	English	Dr. Nandini Saha	Professor
59	English	Dr. Rimi Barnali Chatterjee	Professor
60	English	Dr. Nilanjana Deb	Asso. Professor
61	English	Dr. Saswati Halder	Asso. Professor
62	English	Dr. Monojit Mondal	Asso. Professor
63	English	Dr. Rafat Ali	Asst. Professor
64	English	Smt. Sonia Sahoo	Asso. Professor
65	English	Dr. (Sm.) Sutanuka Ghosh	Asst. Professor
66	English	Dr. Ramit Samaddar	Asst. Professor
67	English	Dr. Abhishek Sarkar	Asst. Professor
68	English	Dr. Kaustav Bakshi	Asst. Professor
69	English	Sri Ishan Chakraborty	Asst. Professor
70	English	Dr. Doyeeta Majumder	Asst. Professor

Education

71	Education	Dr. Bishnupada Nanda	Professor
72	Education	Dr. Muktipada Sinha	Asso. Professor
73	Education	Sri Debashis Mirdha	Asst. Professor
74	Education	Dr. Lalit Lalitav Mohakud	Asst. Professor
75	Education	Sri Prokash Biswas	Asso. Professor

Film Studies

76	Film Studies	Dr. Moinak Biswas	Professor
77	Film Studies	Dr. Moinak Biswas	Professor
78	Film Studies	Dr. Abhijit Roy	Professor
79	Film Studies	Dr. Madhuja Mukherjee	Asso. Professor

Annual Report 2017-18

80	Film Studies	Sri Anindya Sengupta	Asst. Professor
81	Film Studies	Dr. Shradhanjali Tamang	Asst. Professor
82	Film Studies	Sri Arijeet Mandal	Asst. Professor

History

83	History	Dr. Ranjan Chakrabarti	Professor
84	History	Dr. Mahua Sarkar	Professor
85	History	Dr. Anuradha Roy	Professor
86	History	Dr. Nupur Dasgupta	Professor
87	History	Dr. Kaushik Roy	Professor
88	History	Dr. Sudeshna Banerjee	Asso. Professor
89	History	Dr. Subhashis Biswas	Professor
90	History	Dr. Rup Kumar Barman	Professor
91	History	Dr. Suchetana Chattopadhyay	Asst. Professor
92	History	Dr. Maroona Murmu	Asso. Professor
93	History	Sri Samir Das	Asst. Professor
94	History	Dr. Tilottoma Mukherjee	Asso. Professor
95	History	Dr. Chandrani Banerjee Mukherjee	Asst. Professor
96	History	Dr. Samarpita Mitra	Asst. Professor
97	History	Dr. Debajit Dutta	Asst. Professor
98	History	Dr. Utsa Ray	Asst. Professor

International Relation

99	International Relation	Dr. Goutam Kumar Basu	Professor
100	International Relation	Dr. Rabindra Sen	Professor
101	International Relation	Sri Om Prakash Mishra	Professor
102	International Relation	Dr. Sumita Sen	Professor
103	International Relation	Dr. Partha Pratim Basu	Professor
104	International Relation	Dr. Anindya Jyoti Majumdar	Professor
105	International Relation	Dr. Shibashis Chatterjee	Professor
106	International Relation	Mrs. Rochona Das Poddar	Asso. Professor
107	International Relation	Dr. Kanak Chandra Sarkar	Professor
108	International Relation	Dr. Kakoli Sengupta	Asso. Professor
109	International Relation	Dr. Imankalyan Lahiri	Asst. Professor
110	International Relation	Dr. Herken Neadan Toppo	Asst. Professor
111	International Relation	Dr. Bijaya Kr. Das	Asst. Professor
112	International Relation	Dr. Kaushik Sen	Asst. Professor
113	International Relation	Dr. Bhagaban Behera	Asst. Professor
114	International Relation	Sri Arup Bhattacharyya	Asst. Professor
115	International Relation	Sri Subhajit Naskar	Asst. Professor

Library and Information Sc

116	Library and Information Sc.	Dr. Sunil Kumar Chatterjee	Professor
117	Library and Information Sc.	Dr. Sunil Kumar Chatterjee	Professor
118	Library and Information Sc.	Dr. Udayan Bhattacharjya	Professor
119	Library and Information Sc.	Dr. Goutam Maity	Professor
120	Library and Information Sc.	Dr. Subarna Kr. Das	Professor
121	Library and Information Sc.	Dr. Tarun Kumar Mondal	Asst. Professor

School of Languages & Linguistics

122	School of Languages	Dr. Mahidas Bhattacharya	Professor
123	School of Languages	Dr. Atanu Saha	Asst. Professor
124	School of Languages	Dr. Samir Karmakar	Asst. Professor

Philosophy

125	Philosophy	Dr. Ratna Dutta Sharma	Professor
126	Philosophy	Dr. Rupa Bandyopadhyay	Professor
127	Philosophy	Dr. Madhumita Chattopadhyay	Professor
128	Philosophy	Dr. Sadhan Chakraborti	Professor
129	Philosophy	Dr. Soumitra Basu	Asso. Professor
130	Philosophy	Dr. Gangadhar Kar	Professor
131	Philosophy	Dr. Atashee Chatterjee (Sinha)	Professor
132	Philosophy	Dr. Lopamudra Choudhury	Professor
133	Philosophy	Dr. Proyash Sarkar	Professor
134	Philosophy	Dr. Sashi Nungla	Professor
135	Philosophy	Dr. Aparajita Mukhopadhyay	Professor
136	Philosophy	Dr. Jhuma Chakraborty	Asso. Professor
137	Philosophy	Dr. Dipayan Pattanayak	Asso. Professor
138	Philosophy	Dr. Maushumi Guha	Asso. Professor
139	Philosophy	Shri Arun Mahata	Asso. Professor
140	Philosophy	Dr. (Smt.) Maitreyee Datta	Asso. Professor
141	Philosophy	Dr. Preetam Ghoshal	Asso. Professor
142	Philosophy	Mrs. Rubai Saha	Asst. Professor
143	Philosophy	Dr. Gopi Nath Mondal	Asst. Professor
144	Philosophy	Dr. Samar Kumar Mondal	Asso. Professor
145	Philosophy	Dr. Gargi Goswami	Asst. Professor
146	Philosophy	Dr. Madhucchanda Sen	Asso. Professor

Physical Education

147	Physical Education	Dr. Sudip Sundar Das	Professor
148	Physical Education	Dr. Ashoke Kumar Biswas	Professor
149	Physical Education	Dr. Gopal Chandra Saha	Professor
150	Physical Education	Dr. Sanjib Mridha	Professor
151	Physical Education	Dr. Asish Paul	Asst. Professor
152	Physical Education	Dr. Atanu Ghosh	Asst. Professor
153	Physical Education	Dr. Papan Mondal	Asst. Professor

Sanskrit

154	Sanskrit	Dr. Rita Chattopadhyay	Professor
155	Sanskrit	Dr. Lalita Sengupta	Professor
156	Sanskrit	Dr. Debarchana Sarkar	Professor
157	Sanskrit	Dr. Piyali Praharaj	Professor
158	Sanskrit	Dr. Tapan Sankar Bhattacharya	Professor
159	Sanskrit	Dr. Ashok Kumar Mahata	Asso. Professor
160	Sanskrit	Dr. Shiuli (Ghosh) Basu	Asst. Professor
161	Sanskrit	Dr. Kakali Ghosh	Asso. Professor
162	Sanskrit	Dr. Debdas Mandal	Asst. Professor

Annual Report 2017-18

163 Sanskrit Dr. Chinmay Mandal Asst. Professor

Sociology

164 Sociology Dr. Ruby Sain Professor
 165 Sociology Dr. Dalia Chakraborty Professor
 166 Sociology Dr. Amites Mukhopadhyay Professor
 167 Sociology Smt. Nutan Marian Tigga Asst. Professor
 168 Sociology Dr. Piyali Sur Asso. Professor

School of Women's Studies

169 School of Women's Studies Dr. Samita Sen Professor
 170 School of Women's Studies Dr. Aishika Chakraborty Asso. Professor
 171 School of Women's Studies Dr. Nandita (Banerjee) Dhawan Asst. Professor

School of Cognitive Sc.

172 School of Cognitive Sc. Dr. Amrita Basu Asst. Professor

ENGINEERING & TECHNOLOGY

SL	Dept.	Name	Designation	DoJ at JU	DoR 60	DoR 62
1	Mechanical	Dr. Sujit Ghoshal	Professor	20 4 1985	31 1 2016	
2	Mechanical	Dr. Sankar Dhar	Professor	8 7 1985	31 1 2016	
3	Mechanical	Dr. Simul Banerjee	Professor	30 9 1981	31 3 2016	
4	S. Ener Stud	Dr. Subhasis Neogi	Professor	17 12 1990	30 6 2016	
5	Chemical	Dr. Chandan Guha	Professor	6 7 1988	31 8 2016	
6	Comp. Sc.	Dr. Avijit Kar	Professor	1 10 1988	30 9 2016	
7	Civil	Dr. Somnath Ghosh	Professor	19 11 1982	31 1 2017	31 1 2019
8	Mechanical	Sri Goutam Nandi	Associate Professor	19 10 1982	28 2 2017	28 2 2019
9	Comp. Sc.	Dr. Mita Nasipuri	Professor	26 10 1987	28 2 2017	28 2 2019
10	ACEE	Dr. Tandra Mitra	Professor	4 6 1999	28 2 2017	28 2 2019
11	IEE	Dr. Bhaswati Goswami	Professor	8 11 1995	31 3 2017	31 3 2019
12	Civil	Dr. Sibapriya Mukherjee	Professor	2 4 1984	31 7 2017	31 7 2019
13	Comp. Sc.	Dr. Atal Chaudhuri	Professor	19 8 1985	30 9 2017	30 9 2019
14	Mechanical	Dr. Sadhan Kr. Ghosh	Professor	31 3 1984	31 10 2017	31 10 2019
15	Mechanical	Dr. Asish Bandyopadhyay	Professor	16 11 1987	30 11 2017	30 11 2019
16	Pharmacy	Dr. Tanmoy Bera	Professor	5 6 1992	31 12 2017	31 12 2019
17	FTBE	Dr. Uma Ghosh	Professor	13 12 2005	31 12 2017	31 12 2019
18	S.I.S.E.D.	Dr. Kamalika Ghosh	Assistant Professor	26 5 2014	31 12 2017	31 12 2019
19	Electrical	Dr. Abhijit Mukherjee	Professor	16 4 1984	31 1 2018	31 1 2020
20	Electrical	Dr. Sugata Munshi	Professor	11 9 1990	31 1 2018	31 1 2020
21	ETCE	Dr. Chayanika Bose	Professor	31 5 1999	31 1 2018	31 1 2020
22	ETCE	Dr. Subir Kumar Sarkar	Professor	10 8 1999	31 1 2018	31 1 2020
23	Electrical	Dr. Subrata Paul	Professor	28 6 1985	28 2 2018	28 2 2020
24	Mechanical	Dr. Tarun Kanti Naskar	Professor	19 10 1982	31 5 2018	31 5 2020
25	Electrical	Dr. Swapan Kumar Goswami	Professor	9 9 1987	30 6 2018	30 6 2020

Annual Report 2017-18

SL	Dept.	Name	Designation	DOJ at JU	DoR 60	DoR 62
26	Power	Dr. Bireswar Majumdar	Professor	5 12 1995	30 6 2018	30 6 2021
27	IEE	Dr. Subhankar Bandyopadhyay	Professor	19 8 1985	31 7 2018	31 7 2020
28	Chemical	Dr. Prasanta Kumar Banerjee	Associate Professor	12 1 1990	31 7 2018	31 7 2020
29	Met & Mat	Dr. Subir Pal	Professor	16 9 1986	31 8 2018	31 8 2020
30	Civil	Dr. Somnath Mukherjee	Professor	10 7 1993	30 9 2018	30 9 2020
31	Production	Dr. Bijoy Bhattacharyya	Professor	5 3 1991	31 10 2018	31 10 2020
32	Pharmacy	Dr. Tarun Jha	Professor	5 6 1992	31 1 2019	31 1 2021
33	S. Ener Stud	Dr. Tushar Jash	Associate Professor	18 4 2002	31 1 2019	31 1 2021
34	IEE	Dr. Ardhendu Ghosal	Professor	3 4 1986	29 2 2019	29 2 2021
35	Pharmacy	Dr. Mrs. Jasmina Khanam	Professor	5 6 1992	29 2 2019	29 2 2021
36	Mechanical	Dr. Goutam Majumder	Professor	2 11 1989	31 3 2019	31 3 2021
37	Mechanical	Dr. Goutam Pohit	Professor	2 7 1990	31 3 2019	31 3 2021
38	Comp. Sc.	Dr. Chitrita Chaudhuri	Associate Professor	24 8 2001	31 3 2019	31 3 2021
39	Mechanical	Dr. Prabir Kumar De	Professor	31 3 1984	30 6 2019	30 6 2021
40	Electrical	Dr. (Mrs.) Saswati Mazumdar	Professor	8 6 1987	30 9 2019	30 9 2021
41	Architect	Dr. Shubhrajit Das	Professor	1 7 2008	31 10 2019	31 10 2021
42	Comp. Sc.	Dr. Chandan Majumdar	Professor	19 8 1985	30 11 2019	30 11 2021
43	Electrical	Dr. (Mrs.) Mita Dutta	Professor	28 6 1985	31 12 2019	31 12 2021
44	Mechanical	Dr. Dipak Laha	Professor	10 7 1987	31 12 2019	31 12 2021
45	Electrical	Sri Palash Kumar Kundu	Associate Professor	14 7 2001	31 12 2019	31 12 2021
46	Comp. Sc.	Dr. Debesh Kumar Das	Professor	31 7 1993	28 2 2020	Voluntary retd. W.e.f. 30.06.2018
47	ETCE	Dr. Bhaskar Gupta	Professor	19 8 1985	31 3 2020	31 3 2022
48	Mechanical	Sri Ranajit Kumar Chakraborti	Associate Professor	2 3 1990	30 4 2020	30 4 2022
49	Mechanical	Dr. Dipten Misra	Assistant Professor	20 4 1985	30 6 2020	30 6 2022
50	Electrical	Dr. Kesab Bhattacharya	Professor	1 9 1990	30 6 2020	30 6 2022
51	Production	Sri Subir Kr. Debnath	Associate Professor	14 9 1985	31 12 2020	31 12 2022
52	Production	Dr. Bijan Sarkar	Professor	19 7 1985	31 1 2021	31 1 2023
53	Mechanical	Dr. Abhijit Mukhopadhyay	Associate Professor	1 7 1987	28 2 2021	28 2 2023
54	Construc	Dr. Subhajit Saraswati	Professor	14 6 1990	28 2 2021	28 2 2023
55	Mechanical	Dr. Kashinath Saha	Associate Professor	7 8 1987	31 3 2021	31 3 2023
56	S.W. R. Engg	Dr. Asis Majumder	Professor	4 10 1989	30 6 2021	30 6 2023
57	Pharmacy	Dr. Amallesh Samanta	Professor	2 5 2007	31 7 2021	31 7 2023
58	Comp. Sc.	Dr. Anupam Sinha	Professor	10 7 1989	31 8 2021	31 8 2023
59	Production	Dr. Ajoy Kumar Dutta	Professor	14 12 1989	30 9 2021	30 9 2023

Annual Report 2017-18

SL	Dept.	Name	Designation	DOJ at JU	DoR 60	DoR 62
60	IEE	Dr. Rajib Bandyopadhyay	Professor	19 3 1990	30 9 2021	30 9 2023
61	Comp. Sc.	Dr. Mahantapas Kundu	Professor	5 7 1988	31 10 2021	31 10 2023
62	Civil	Sri Shibnath Chakrabarty	Professor	1 3 1991	31 10 2021	31 10 2023
63	Mechanical	Dr. Amit Karmakar	Associate Professor	31 12 1987	28 2 2022	28 2 2024
64	Architect	Dr. Jayita Guha Niyogi	Professor	1 7 2008	31 5 2022	31 5 2024
65	Civil	Dr. Arup Guha Niyogi	Professor	8 8 1990	31 7 2022	31 7 2024
66	Mechanical	Dr. Samar Chandra Mandal	Professor	31 5 1995	31 7 2022	31 7 2024
67	Electrical	Dr. Sivaji Chakravorti	Professor	28 6 1985	30 9 2022	30 9 2024
68	Civil	Dr. Amit Dutta	Professor	25 11 2009	30 11 2022	30 11 2024
69	Printing	Dr. Arun Kiran Pal	Professor	17 11 1990	31 11 2022	31 11 2024
70	Mechanical	Dr. Sandip Das	Assistant Professor	20 4 1985	31 12 2022	31 12 2024
71	ETCE	Dr. Amit Konar	Professor	19 8 1985	31 1 2023	31 1 2025
72	Architect	Dr. Tapas Kumar Bhattacharyya	Professor	1 12 1989	31 1 2023	31 1 2025
73	Mechanical	Dr. Dipankar Sanyal	Professor	17 8 1991	31 1 2023	31 1 2025
74	Mechanical	Dr. Snehangshu Mandal	Associate Professor	1 1 1996	31 1 2023	31 1 2025
75	Comp. Sc.	Dr. Nirmalya Chowdhury	Professor	26 7 2001	31 1 2023	31 1 2025
76	Mechanical	Dr. Snehamoy Majumder	Professor	15 7 1992	28 2 2023	28 2 2025
77	Pharmacy	Dr. Lakshmi Kanta Ghosh	Professor	5 6 1992	30 4 2023	30 4 2025
78	Civil	Dr. Ramendu Bikash Sahu	Professor	20 8 1990	31 5 2023	31 5 2025
79	FTBE	Dr. (Ms.) Runu Chakraborty	Professor	30 7 1991	31 5 2023	31 5 2025
80	Chemical	Dr. Ranjana Chowdhury	Professor	19 6 1993	30 6 2023	30 6 2025
81	Comp. Sc.	Dr. Sivaji Bandyopadhyay	Professor	11 7 1989	31 8 2023	31 8 2025
82	Mechanical	Dr. Sumanta Neogi	Professor	1 11 1989	31 8 2023	31 8 2025
83	Architect	Dr. Shivashish Bose	Professor	2 8 2004	31 8 2023	31 8 2025
84	Mechanical	Dr. Goutam Sutradhar	Professor	24 2 2005	31 8 2023	31 8 2025
85	Chemical	Dr. Ujjaini Sarkar	Professor	1 12 2000	30 9 2023	30 9 2025
86	Met & Mat	Dr. Pravash Chandra Chakraborti	Professor	24 1 1990	31 12 2023	31 12 2025
87	IEE	Dr. Bivas Dam	Professor	2 4 1990	31 12 2023	31 12 2025
88	Civil	Dr. Saroj Mondal	Professor	13 7 1991	31 12 2023	31 12 2025
89	Chemical	Dr. Debasish Putatunda	Associate Professor	11 8 1988	31 1 2024	Exp. On 12.01.18
90	Mechanical	Dr. Rajat Shubra Sen	Professor	15 3 1994	28 2 2024	28 2 2026
91	IEE	Dr. Kalyan Majumdar	Associate Professor	13 8 1990	31 7 2024	31 7 2026
92	Production	Dr. Shankar Chakraborty	Professor	6 9 1993	31 7 2024	31 7 2026
93	Power	Dr. Niladri Chakraborty	Professor	1 3 1990	31 8 2024	31 8 2026
94	ETCE	Dr. Iti Saha Misra	Professor	19 3 1997	30 9 2024	30 9 2026
95	Electrical	Dr. (Mrs.) Suparna Kar Choudhury	Professor	31 8 1990	31 10 2024	31 10 2026
96	Printing	Dr. Swati Bandyopadhyay	Associate Professor	17 11 1990	31 10 2024	31 10 2026

Annual Report 2017-18

SL	Dept.	Name	Designation	DOJ at JU	DoR 60	DoR 62
97	IEE	Dr. Kumardeb Banerjee	Professor	11 6 1993	31 10 2024	31 10 2026
98	IT	Dr. Samiran Chattopadhyay	Professor	16 8 1989	31 12 2024	31 12 2026
99	Power	Dr. Kamal Krishna Mondal	Professor	13 5 2002	31 12 2024	31 12 2026
100	IEE	Dr. Rajanikanta Mudi	Professor	1 12 1992	31 1 2025	31 1 2027
101	Mechanical	Dr. Buddhadev Oraon	Professor	9 5 1996	31 1 2025	31 1 2027
102	Construc	Dr. Gokul Ch. Mondal	Associate Professor	11 9 2001	31 1 2025	31 1 2027
103	Architect	Dr. Sanjib Nag	Professor	1 7 2008	28 2 2025	28 2 2027
104	Comp. Sc.	Dr. Sarmistha Neogy	Professor	9 10 2001	31 5 2025	31 5 2027
105	Construc	Dr. Debasish Bandyopadhyay	Professor	27 12 1997	30 6 2025	30 6 2027
106	Construc	Dr. Partha Pratim Biswas	Professor	21 1 1993	31 7 2025	31 7 2027
107	Mechanical	Dr. Sanjib Acharyya	Professor	9 9 1991	31 8 2025	31 8 2027
108	Pharmacy	Dr. Tapan Kumar Maity	Professor	4 12 2001	31 8 2025	31 8 2027
109	Comp. Sc.	Dr. Ujjwal Maulik	Professor	1 8 2003	31 8 2025	31 8 2027
110	Mechanical	Dr. Debasish Roy	Professor	23 9 1989	30 9 2025	30 9 2027
111	Production	Dr. Souren Mitra	Professor	6 9 1993	30 9 2025	30 9 2027
112	S. Edn Tech	Dr. Smt. Matangini Chatopadhyay	Professor	17 4 2002	30 9 2025	30 9 2027
113	Comp. Sc.	Dr. Nandini Mukhopadhyay	Professor	1 1 1992	31 10 2025	31 10 2027
114	Pharmacy	Dr. Biswajit Mukherjee	Professor	12 3 2002	31 10 2025	31 10 2027
115	Pharmacy	Dr. Subhash Chandra Mondal	Professor	4 8 1997	31 12 2025	31 12 2027
116	Mechanical	Dr. Somnath Bhattacharjee	Associate Professor	13 8 1993	31 1 2026	31 1 2028
117	Construc	Dr. Kaushik Bandyopadhyay	Professor	6 11 1995	31 1 2026	31 1 2028
118	ETCE	Dr. Mrinal Kanti Naskar	Professor	29 5 1999	28 2 2026	28 2 2028
119	Mechanical	Dr. Swarnendu Sen	Professor	1 11 1989	31 3 2026	31 3 2028
120	Mechanical	Dr. Arunava Chanda	Professor	2 9 1991	31 3 2026	31 3 2028
121	Power	Dr. Amitava Datta	Professor	16 8 1990	30 4 2026	30 4 2028
122	Electrical	Sri Madhab Roy	Associate Professor	1 7 1995	31 5 2026	31 5 2028
123	S. Edn Tech	Dr. Ranjan Parekh	Associate Professor	15 12 2000	31 7 2026	31 7 2028
124	Mechanical	Dr. Titas Nandi	Professor	10 9 2008	31 7 2026	31 7 2028
125	Mechanical	Dr. Debabrata Nag	Associate Professor	2 12 2002	31 8 2026	31 8 2028
126	Chemical	Dr. Chiranjib Bhattacharjee	Professor	24 6 1991	30 9 2026	30 9 2028
127	Electrical	Dr. Madhubanti Maitra	Professor	22 9 1993	30 9 2026	30 9 2028
128	Electrical	Dr. Arabinda Das	Professor	7 1 1999	30 9 2026	30 9 2028
129	Mechanical	Dr. Sudipta De	Professor	23 9 1991	31 10 2026	31 10 2028
130	Chemical	Dr. Kajari Kar Gupta	Professor	7 12 2007	30 11 2026	30 11 2028
131	Mechanical	Dr. Himadri Chattopadhyay	Professor	16 4 2007	31 1 2027	31 1 2029
132	Chemical	Dr. Debashis Roy	Professor	16 9 1998	30 6 2027	30 6 2029
133	Construc	Dr. Sayan Nandi	Assistant Professor	25 2 1994	31 11 2027	31 11 2029
134	Mechanical	Dr. Dulal Krishna Mandal	Associate Professor	4 9 2000	31 11 2027	31 11 2029

Annual Report 2017-18

SL	Dept.	Name	Designation	DOJ at JU	DoR 60	DoR 62
135	Chemical	Dr. Avijit Bhowal	Professor	12 6 1991	31 12 2027	31 12 2029
136	Met & Mat	Dr. Akshay K. Pramanick	Professor	11 6 1999	31 1 2028	31 1 2030
137	Mechanical	Dr. Balaram Kundu	Professor	20 1 2003	31 1 2028	31 1 2030
138	Mechanical	Dr. Achintya Mukhopadhyay	Professor	2 12 1991	30 4 2028	30 4 2030
139	Comp. Sc.	Dr. Sanjoy Kumar Saha	Professor	17 8 2001	30 4 2028	30 4 2030
140	Power	Dr. Amitava Gupta	Professor	31 7 1997	30 6 2028	30 6 2030
141	Comp. Sc.	Dr. Susmita Ghosh (Nee De)	Professor	14 2 1997	31 7 2028	31 7 2030
142	Architect	Dr. Madhumita Roy	Professor	7 3 2001	31 7 2028	31 7 2030
143	Mechanical	Dr. Saikat Mookherjee	Professor	7 3 1994	30 9 2028	30 9 2030
144	Civil	Dr. Dipankar Chakraborty	Professor	16 1 1995	30 9 2028	30 9 2030
145	Civil	Dr. Gupinath Bhandari	Associate Professor	29 10 2009	30 9 2028	30 9 2030
146	Production	Dr. Biswanath Doloi	Professor	6 9 1993	31 10 2028	31 10 2030
147	Electrical	Dr. Biswanath Roy	Professor	17 11 2000	31 10 2028	31 10 2030
148	Electrical	Dr. Amitava Chatterjee	Professor	26 3 1997	30 11 2028	30 11 2030
149	Architect	Dr. Smt. Suchandra Bardhan	Professor	1 3 2001	31 11 2028	31 11 2030
150	Mechanical	Dr. Arghya Nandi	Professor	15 7 1993	31 12 2028	31 12 2030
151	Electrical	Dr. Mrs. Smita Sadhu (Ghosh)	Professor	2 12 1998	31 12 2028	31 12 2030
152	Pharmacy	Dr. Pulok Kr. Mukherjee	Professor	11 12 2001	31 12 2028	31 12 2030
153	Power	Dr. Apurba Kumar Santra	Professor	8 10 2002	31 12 2028	31 12 2030
154	Electrical	Dr. Debashis Chatterjee	Professor	24 4 2002	30 1 2029	30 1 2031
155	Mechanical	Dr. Abhijit Chanda	Professor	29 9 2000	31 1 2029	31 1 2031
156	Electrical	Dr. Nikhil Mondal	Associate Professor	27 12 2000	31 1 2029	31 1 2031
157	Power	Dr. Mousumi Basu	Professor	30 10 1995	31 3 2029	31 3 2031
158	ETCE	Dr. Palanikndavar Venkateswaran	Professor	15 10 2001	30 4 2029	30 4 2031
159	Mechanical	Dr. Prasanta Sahoo	Professor	16 9 1995	31 7 2029	31 7 2031
160	IEE	Dr. Ratna Ghosh	Professor	21 7 1997	31 10 2029	31 10 2031
161	ETCE	Dr. Sudipta Chattopadhyay	Professor	31 8 2006	30 11 2029	30 11 2031
162	Production	Dr. Debmalya Banerjee	Professor	12 3 1999	31 11 2029	31 11 2031
163	Printing	Dr. Pradip Kundu	Assistant Professor	29 12 2001	31 12 2029	31 12 2031
164	Printing	Dr. Kanai Ch. Paul	Professor	12 3 1999	31 1 2030	31 1 2032
165	Printing	Dr. Soumen Basak	Associate Professor	26 3 2001	28 2 2030	28 2 2032
166	Comp. Sc.	Dr. Jamuna Kanta Sing	Professor	10 3 1997	31 5 2030	31 5 2032
167	Production	Dr. Soumya Sarkar	Professor	6 3 1999	31 5 2030	31 5 2032
168	Civil	Dr. Partha Bhattacharya	Professor	28 2 2006	31 5 2030	31 5 2032
169	Mechanical	Sri Susenjit Sarkar	Associate Professor	10 12 2002	30 6 2030	30 6 2032
170	Chemical	Dr. Chanchal Mondal	Associate Professor	11 9 1998	30 9 2030	30 9 2032

Annual Report 2017-18

SL	Dept.	Name	Designation	DoJ at JU	DoR 60	DoR 62
171	Electrical	Dr. Biswajit Bhattacharyya	Associate Professor	19 12 2000	30 9 2030	30 9 2032
172	Mechanical	Dr. Nirmal Kumar Manna	Associate Professor	7 2 2007	28 2 2031	28 2 2033
173	Comp. Sc.	Dr. Debotosh Bhattacharjee	Professor	1 3 2007	31 5 2031	31 5 2033
174	Pharmacy	Dr. Kunal Roy	Professor	15 1 2002	30 6 2031	30 6 2033
175	Pharmacy	Dr. Sanmoy Karmakar	Professor	1 3 2007	30 6 2031	30 6 2033
176	Comp. Sc.	Dr. Mridul Sankar Barik	Assistant Professor	22 8 2006	31 12 2031	31 12 2033
177	Electrical	Dr. Ranjit Kr. Barai	Professor	18 1 1999	31 1 2032	31 1 2034
178	Met & Mat	Dr. Rajib Dey	Professor	1 3 2005	31 1 2032	31 1 2034
179	Civil	Sri. Pritam Aitch	Associate Professor	9 2 2005	31 3 2032	31 3 2034
180	Electrical	Dr. (Ms.) Sudipta Debnath	Professor	7 3 2014	31 3 2032	31 3 2034
181	Production	Dr. Arunansu Sekhar Kuar	Professor	22 3 1999	30 4 2032	30 4 2034
182	Civil	Dr. Anupam Deb Sarkar	Associate Professor	20 4 1999	30 4 2032	30 4 2034
183	FTBE	Dr. Paramita Bhattacharjee	Associate Professor	22 9 2009	31 7 2032	31 7 2034
184	Mechanical	Dr. Koushik Ghosh	Professor	4 2 2002	31 10 2032	31 10 2034
185	Comp. Sc.	Dr. Diganta Saha	Professor	17 8 2001	31 1 2033	31 1 2035
186	Electrical	Dr. Biswendu Chatterjee	Associate Professor	11 7 2008	28 2 2033	28 2 2035
187	ETCE	Dr. Sheli Murmu (Sinha Chaudhuri)	Professor	15 5 1999	30 4 2033	30 4 2035
188	Mechanical	Dr. Rana Saha	Professor	14 1 2002	31 7 2033	31 7 2035
189	ACEE	Dr. Partha Sarathi Chakraborty	Associate Professor	10 1 2005	31 10 2033	31 10 2035
190	Civil	Dr. Subhasish Roy Choudhury	Assistant Professor	28 12 2006	31 10 2033	31 10 2035
191	ETCE	Dr. Sudhabindu Ray	Professor	25 11 2009	31 12 2033	31 12 2035
192	Power	Dr. Ranjan Ganguly	Professor	23 5 1997	31 1 2034	31 1 2036
193	Chemical	Dr. Rajat Chakraborty	Professor	8 6 2007	31 1 2034	31 1 2036
194	Electrical	Dr. Arindam Kumar Sil	Assistant Professor	28 8 2009	31 1 2034	31 1 2036
195	ACEE	Sri Santwan Chattopadhyay	Assistant Professor	5 7 2004	31 5 2034	31 5 2036
196	Met & Mat	Dr. Sathi Banerjee (Nee Mallick)	Assistant Professor	14 3 2007	31 8 2034	31 8 2036
197	FTBE	Dr. Dipankar Halder	Associate Professor	5 1 2007	30 11 2034	30 11 2036
198	Comp. Sc.	Dr. Kamal Sarkar	Professor	24 8 2001	31 1 2035	31 1 2037
199	IT	Dr. Parama Bhaumik	Associate Professor	14 11 2005	31 1 2035	31 1 2037
200	S.W. R. Engg	Dr. Pankaj Kumar Roy	Professor	13 1 2014	31 1 2035	31 1 2037
201	ETCE	Dr. Ananda Shankar Chowdhury	Professor	29 12 2008	31 3 2035	31 3 2037
202	Power	Dr. Debashis Palit	Assistant Professor	18 7 2008	30 4 2035	30 4 2037

Annual Report 2017-18

SL	Dept.	Name	Designation	DOJ at JU	DoR 60	DoR 62
203	FTBE	Dr. Prasanta Kumar Biswas	Associate Professor	29 1 2016	30 4 2035	30 4 2037
204	Pharmacy	Dr. Pallab Kanti Halder	Associate Professor	2 3 2007	31 7 2035	31 7 2037
205	Electrical	Dr. Gautam Sarkar	Assistant Professor	8 4 2002	30 9 2035	30 9 2037
206	Electrical	Dr. Smt. Sunita Halder nee Dey	Professor	9 4 2002	30 9 2035	30 9 2037
207	Power	Dr. Gargi Konar	Assistant Professor	1 9 2006	30 11 2035	30 11 2037
208	IEE	Smt. (Ms.) Runu Banerjee	Professor	29 7 2005	31 11 2035	31 11 2037
209	Mechanical	Dr. Subhas Chandra Panja	Professor	15 9 2009	31 12 2035	31 12 2037
210	FTBE	Dr. Debabrata Bera	Assistant Professor	23 12 2015	31 12 2035	31 12 2037
211	S. Ener Stud	Dr. Ratan Mondal	Associate Professor	12 5 2003	28 2 2036	28 2 2038
212	IT	Dr. Bibhas Ch. Dhara	Professor	14 11 2005	31 3 2036	31 3 2038
213	Chemical	Dr. Papita Das (Saha)	Professor	12 11 2013	30 4 2036	30 4 2038
214	ETCE	Dr. Jaydeb Bhaumik	Associate Professor	23 11 2017	30 6 2036	30 6 2038
215	Comp. Sc.	Dr. Subhadip Basu	Associate Professor	13 7 2006	30 9 2036	30 9 2039
216	Production	Sri Biplab Ranjan Sarkar	Assistant Professor	22 6 2005	31 10 2036	31 10 2038
217	ETCE	Dr. Manotosh Biswas	Professor	30 7 2010	31 10 2036	31 10 2038
218	IEE	Dr. Bipan Tudu	Professor	5 12 2001	31 11 2036	31 11 2038
219	IT	Dr. Uttam Kumar Roy	Assistant Professor	14 3 2005	31 1 2037	31 1 2039
220	Electrical	Dr. Sovan Dalai	Associate Professor	1 8 2006	31 1 2037	31 1 2039
221	Comp. Sc.	Dr. Sarbani Roy	Associate Professor	13 7 2006	30 4 2037	30 4 2039
222	Civil	Dr. Sumit Kr. Biswas	Associate Professor	24 2 2005	31 8 2037	31 8 2039
223	S.Bio-Sc.Engg	Dr. Monisha Chakraborty	Associate Professor	10 3 2005	30 9 2037	30 9 2039
224	Chemical	Dr. Ratna Dutta	Assistant Professor	18 12 2009	31 12 2037	31 12 2039
225	Chemical	Dr. Parama Ghoshal	Assistant Professor	30 12 2009	31 1 2038	31 1 2040
226	Chemical	Dr. Shyamal Roy	Assistant Professor	30 10 2013	31 1 2038	31 1 2040
227	Mechanical	Sri Nipu Modak	Assistant Professor	10 1 2007	28 2 2038	28 2 2040
228	IT	Dr. Bhaskar Sardar	Associate Professor	6 12 2006	30 4 2038	30 4 2040
229	Mechanical	Dr. Prokash Chandra Roy	Associate Professor	15 9 2009	30 4 2038	30 4 2040

Annual Report 2017-18

SL	Dept.	Name	Designation	DOJ at JU	DoR 60	DoR 62
230	S.Bio-Sc.Engg	Dr. Piyali Basak	Assistant Professor	11 1 2010	30 4 2038	30 4 2040
231	Construc	Dr. Partha Ghosh	Associate Professor	22 6 2005	30 6 2038	30 6 2040
232	Comp. Sc.	Dr. Ram Sarkar	Assistant Professor	30 4 2008	30 6 2038	30 6 2040
233	Comp. Sc.	Dr. Chintan Kumar Mandal	Assistant Professor	18 3 2014	30 6 2038	30 6 2040
234	Mechanical	Dr. Debabrata Das	Associate Professor	10 9 2009	30 9 2038	30 9 2040
235	Chemical	Dr.Mehabub Rahaman	Assistant Professor	21 12 2009	30 11 2038	30 11 2040
236	Comp. Sc.	Dr. Sudip Kumar Naskar	Assistant Professor	26 8 2013	31 12 2038	31 12 2040
237	Power	Sri Subrata Mondal	Assistant Professor	1 2 2016	31 12 2038	31 12 2040
238	Comp. Sc.	Dr. Anasua Sarkar	Assistant Professor	17 2 2016	31 12 2038	31 12 2040
239	S.Mob. Comp	Dr. Punyasha Chatterjee	Assistant Professor	1 11 2012	31 1 2039	31 1 2041
240	Architect	Dr. Debashish Das	Associate Professor	25 7 2005	31 3 2039	31 3 2041
241	Printing	Dr. Arpitam Chatterjee	Assistant Professor	24 6 2008	31 5 2039	31 5 2041
242	IEE	Dr. Prolay Sharma	Assistant Professor	12 4 2008	30 6 2039	30 6 2041
243	Pharmacy	Dr. Ketousetuo Kuotsu	Assistant Professor	16 5 2008	30 6 2039	30 6 2041
244	Pharmacy	Dr. Saikat Dewanjee	Assistant Professor	23 2 2007	31 8 2039	31 8 2041
245	FTBE	Dr. Sunita Adhikary (nee Pramanik)	Assistant Professor	18 2 2016	31 12 2039	31 12 2041
246	Civil	Dr. Sreyashi Das (nee Pal)	Assistant Professor	29 12 2006	31 1 2040	31 1 2042
247	ETCE	Dr. Sayan Chatterjee	Associate Professor	17 12 2009	2 2 2040	2 2 2042
248	S.Mat.Sc.& Nanotech	Sri Sourav Sarkar	Assistant Professor	25 10 2017	29 2 2040	29 2 2042
249	Electrical	Dr. Debanghsu Dey	Assistant Professor	18 8 2009	30 4 2040	30 4 2042
250	Mechanical	Dr. Anindya Sundar Das	Assistant Professor	16 5 2014	30 4 2040	30 4 2042
251	Comp. Sc.	Dr. Chandreyee Chowdhury	Assistant Professor	20 9 2006	31 5 2040	31 5 2042
252	Civil	Sri Santosh Kr. Das	Assistant Professor	21 1 2016	30 6 2040	30 6 2042

Annual Report 2017-18

SL	Dept.	Name	Designation	DOJ at JU	DoR 60	DoR 62
253	Architect	Dr. Mainak Ghosh	Associate Professor	11 8 2017	30 6 2040	30 6 2042
254	Civil	Dr. Tumpa Hazra	Assistant Professor	4 1 2010	31 10 2040	31 10 2042
255	Electrical	Dr. Susanta Ray	Assistant Professor	7 10 2009	31 12 2040	31 12 2042
256	S.W. R. Engg	Mr. Subhasish Das	Assistant Professor	13 1 2014	31 12 2040	31 12 2042
257	S.Mat.Sc.& Nanotech	Dr. Chandan Kumar Ghosh	Assistant Professor	20 9 2017	31 12 2040	31 12 2042
258	Mechanical	Sri Sudip Simlandi	Assistant Professor	29 4 2008	28 2 2041	28 2 2043
259	Electrical	Dr. Sayantan Chakraborty	Assistant Professor	17 11 2017	28 2 2041	28 2 2043
260	Comp. Sc.	Dr. Nibaran Das	Assistant Professor	14 7 2006	30 4 2041	30 4 2043
261	S.Mob. Comp	Smt. Arpita Sarkar	Assistant Professor	29 8 2012	30 6 2041	30 6 2043
262	Mechanical	Dr Tapan Kr. Barman	Associate Professor	9 4 2008	31 10 2041	31 10 2043
263	Electrical	Dr. Suddhasatwa Chakraborty	Assistant Professor	22 8 2008	31 3 2042	31 3 2044
264	Civil	Dr. Kalyan Kr. Mondal	Associate Professor	2 4 2007	30 4 2042	30 4 2044
265	Chemical	Dr. Sudeshna Saha	Assistant Professor	9 12 2013	30 9 2042	30 9 2044
266	Mechanical	Sri Tanmoy Bandyopadhyay	Assistant Professor	11 8 2017	31 10 2042	31 10 2044
267	Power	Sri Bhimsen Tudu	Assistant Professor	3 7 2008	30 11 2042	30 11 2044
268	Met & Mat	Dr. Amrita Kundu	Assistant Professor	1 2 2014	31 12 2042	31 12 2044
269	Comp. Sc.	Dr. Dipankar Das	Assistant Professor	1 4 2014	31 3 2043	31 3 2045
270	Construc	Dr. Manoj Kumar Sahis	Assistant Professor	11 9 2009	30 6 2043	30 6 2045
271	Electrical	Sri Dipten Maity	Assistant Professor	14 3 2014	30 6 2043	30 6 2045
272	Mechanical	Dr. Anirban Mitra	Assistant Professor	5 5 2014	31 7 2043	31 7 2045
273	IT	Dr. Kartick Chandra Mondal	Assistant Professor	24 2 2014	31 8 2044	31 8 2046
274	S.I.S.E.D.	Parthasarathi Satvaya	Assistant Professor	10 3 2016	28 2 2045	28 2 2047
275	Electrical	Sri Arpan Kumar Pradhan	Assistant Professor	3 5 2018	28 2 2045	28 2 2047
276	Mechanical	Dr. Suman Kalyan Das	Assistant Professor	16 4 2014	31 8 2045	31 8 2047

Annual Report 2017-18

SL	Dept.	Name	Designation	DOJ at JU	DoR 60	DoR 62
277	ETCE	Dr. Chandrima Mondal	Assistant Professor	20 11 2013	30 11 2045	30 11 2047
278	Mechanical	Mr.Pranibesh Mandal	Assistant Professor	20 1 2014	31 1 2046	31 1 2048
279	Mechanical	Dr. Shouvik Ghosh	Assistant Professor	1 8 2017	28 2 2046	28 2 2048
280	Civil	Sri. Amit Shiuly	Assistant Professor	28 1 2016	30 4 2046	30 4 2048
281	Printing	Smt. Shilpi Naskar	Assistant Professor	23 7 2008	31 5 2046	31 5 2048
282	IEE	Mr. Abhijit Chandra	Assistant Professor	6 8 2014	31 8 2046	31 8 2048
283	Mechanical	Sri Siddhartha Patra	Assistant Professor	10 4 2014	31 10 2046	31 10 2048
284	Electrical	Dr. Ayan Kumar Tudu	Assistant Professor	26 7 2010	30 4 2047	30 4 2049
285	IEE	Mr. Ravi Kumar Pandit	Assistant Professor	21 4 2014	31 7 2047	31 7 2049
286	Architect	Ms Sanghamitra Sarkar	Assistant Professor	9 11 2015	31 7 2047	31 7 2049
287	Civil	Sri Narayan Roy	Assistant Professor	23 2 2016	31 7 2047	31 7 2049
288	Architect	Ms.Dechen Donka Bhutia	Assistant Professor	14 11 2017	30 11 2047	30 11 2049
289	Chemical	Ms. Sujata Sardar	Assistant Professor	28 10 2015	29 2 2048	29 2 2050
290	Electrical	Sri Mihir Hembram	Assistant Professor	15 12 2017	30 4 2048	30 4 2050
291	IT	Tohida Rehman	Assistant Professor	21 2 2018	30 6 2048	30 6 2050
292	ETCE	Smt. Pratyusha Rakshit	Assistant Professor	27 11 2015	30 9 2048	30 9 2050
293	Printing	Ms. Mahasweta Mandal	Assistant Professor	25 8 2015	31 1 2049	31 1 2051
294	Electrical	Ms. Madhumita Mandal	Assistant Professor	28 2 2014	28 2 2049	28 2 2051
295	Mechanical	Sri Sourav Sarkar	Assistant Professor	29 6 2017	30 9 2049	30 9 2051
296	Mechanical	Sri Hareram Lohar	Assistant Professor	7 8 2017	30 4 2050	30 4 2052

Annual Report 2017-18

SCIENCE

Sl. No.	Department	Name of the Faculty Members	Present Designation
1	Chemistry	Dr. Asok Kumar Mallik	Professor
2	Chemistry	Dr. Subhash Ch. Bhattacharyya	Professor
3	Chemistry	Dr. Somnath Ghosh	Professor
4	Chemistry	Dr. Ambikesh Mahapatra	Professor
5	Chemistry	Dr. Chittaranjan Sinha	Professor
6	Chemistry	Dr. Kalyan Kumar Das	Professor
7	Chemistry	Dr. Mahammad Ali	Professor
8	Chemistry	Dr. Nitin Kumar Chattopadhyay	Professor
9	Chemistry	Dr. Rina Ghosh	Professor
10	Chemistry	Dr. Samaresh Bhattacharya	Professor
11	Chemistry	Dr. Subrata Mukhopadhyay	Professor
12	Chemistry	Dr. Swapam Kumar Bhattacharya	Professor
13	Chemistry	Dr. Biplab Bhattacharjee	Associate Professor
14	Chemistry	Dr. Gourhari Maiti	Professor
15	Chemistry	Dr. Jnan Prakash Naskar	Professor
16	Chemistry	Dr. Kajal Krishna Rajak	Professor
17	Chemistry	Dr. Kausikisankar Pramanik	Professor
18	Chemistry	Dr. Pradip Kr. Mahapatra	Associate Professor
19	Chemistry	Dr. Sanjay Bhar	Professor
20	Chemistry	Dr. Subrata Nath Koner	Professor
21	Chemistry	Dr. Sujay Baitalik	Professor
22	Chemistry	Dr. Soumen Ghosh	Professor
23	Chemistry	Dr. Umasish Jana	Associate Professor
24	Chemistry	Dr. Umesh Chandra Halder	Professor
25	Chemistry	Dr. Chandan Kumar Mondal	Professor
26	Chemistry	Dr. Arup Gayen	Assistant Professor
27	Chemistry	Dr. Suman Das	Associate Professor
28	Chemistry	Dr. Partha Pratim Parui	Assistant Professor
29	Chemistry	Dr. Tanurima Bhaumik	Assistant Professor
30	Chemistry	Dr. Saubhik Haldar	Assistant Professor
31	Chemistry	Dr. Debajyoti Ghoshal	Assistant Professor
32	Chemistry	Dr. Saurabh Das	Professor
33	Chemistry	Dr. Partha Ray	Associate Professor
34	Chemistry	Dr. Shouvik Chattopadhyay	Assistant Professor
35	Chemistry	Dr. Amrita Saha	Assistant Professor
36	Chemistry	Dr. Tapan Kr. Mondal	Associate Professor
37	Chemistry	Dr. Bhibhuti Bhusan Show	Assistant Professor
38	Chemistry	Dr. Arunabha Thakur	Assistant Professor
39	Chemistry	Dr. Amit Saha	Assistant Professor
40	Chemistry	Dr. Samit Guha	Assistant Professor
41	Chemistry	Dr. Mohabul Alam Mondal	Assistant Professor
42	Chemistry	Dr. Partha Mahata	Assistant Professor
43	Physics	Dr. Sujata Tarafder	Professor
44	Physics	Dr. Tapas Ranjan Midya	Professor

Annual Report 2017-18

Sl. No.	Department	Name of the Faculty Members	Present Designation
45	Physics	Dr. Argha Deb	Professor
46	Physics	Dr. Ajay Kumar Ghosh	Professor
47	Physics	Dr. Asim Kumar Ghosh	Professor
48	Physics	Dr. Avijit Mukherjee	Associate Professor
49	Physics	Dr. Mridul Bose	Professor
50	Physics	Dr. Basudev Ghosh	Professor
51	Physics	Dr. Brajadulal Chattopadhyay	Professor
52	Physics	Dr. Debasish Biswas	Professor
53	Physics	Dr. Debasish Lohar	Professor
54	Physics	Dr. Kalyan Kr. Chattopadhyay	Professor
55	Physics	Dr. Mridul Bose	Professor
56	Physics	Dr. Ruma Ray	Professor
57	Physics	Dr. Subhankar Ray	Associate Professor
58	Physics	Dr. Sukhen Das	Professor
59	Physics	Dr. Sulava Bhattacharyya	Associate Professor
60	Physics	Dr. Tapas Kr. Ballabh	Associate Professor
61	Physics	Dr. Nabin Baran Manik	Professor
62	Physics	Dr. Dhruva Banerjee	Assistant Professor
63	Physics	Dr. Dipankar Mandal	Assistant Professor
64	Physics	Dr. Puspendu Sahu	Associate Professor
65	Physics	Dr. Subrata Sarkar	Assistant Professor
66	Physics	Mr. Abiral Tamang	Assistant Professor
67	Physics	Dr. Sk. Saiyad Ali	Assistant Professor
68	Physics	Dr. Bharati Tudu	Assistant Professor
69	Physics	Dr. Subhadipta Mukhopadhyay	Associate Professor
70	Physics	Dr. Jayoti Das	Associate Professor
71	Physics	Dr. Pabitra Kumar Paul	Associate Professor
72	Physics	Dr. Partha Pratim Ray	Associate Professor
73	Physics	Dr. Sanjoy Kumar	Associate Professor
74	Physics	Dr. Sarmistha Mandal	Assistant Professor
75	Physics	Dr. Sanat Karmakar	Associate Professor
76	Physics	Dr. Joydeep Chowdhury	Associate Professor
77	Physics	Dr. Abhijit Samanta	Assistant Professor
78	Physics	Dr. Saikat Kumar Seth	Assistant Professor
79	Physics	Dr. Mitali Mondal	Associate Professor
80	Physics	Sri Soumen Mondal	Assistant Professor
81	Mathematics	Dr. Ashis Kr. Sarkar	Professor
82	Mathematics	Dr. Sudeshna Banerjea	Professor
83	Mathematics	Dr. Prabir Kumar Kundu	Professor
84	Mathematics	Dr. Prakash Chandra Mali	Professor
85	Mathematics	Dr. Shamik Ghosh	Professor
86	Mathematics	Dr. Subenoy Chakraborty	Professor

Annual Report 2017-18

Sl. No.	Department	Name of the Faculty Members	Present Designation
87	Mathematics	Dr. Abhijit Lahiri	Professor
88	Mathematics	Dr. Anup Bandyopadhyay	Professor
89	Mathematics	Dr. Arindam Bhattacharyya	Professor
90	Mathematics	Dr. Bibhas Ch. Giri	Professor
91	Mathematics	Dr. Dipak Kr. Kesh	Professor
92	Mathematics	Dr. Farook Rahaman	Professor
93	Mathematics	Dr. Kallol Paul	Professor
94	Mathematics	Dr. Nandadulal Bairagi	Professor
95	Mathematics	Dr. Narayan Chandra Majee	Associate Professor
96	Mathematics	Dr. Pratulananda Das	Professor
97	Mathematics	Dr. Priti Kumar Roy	Professor
98	Mathematics	Dr. Sagnik Sinha	Professor
99	Mathematics	Dr. Subhas Ch. Mondal	Professor
100	Mathematics	Dr. Sujit Kumar Sardar	Professor
101	Mathematics	Dr. Swapna Debnath	Professor
102	Mathematics	Sri. Buddhadeb Sau	Professor
103	Mathematics	Dr. Manasi Mandal	Assistant Professor
104	Mathematics	Dr. Sukhendu Kar	Associate Professor
105	Mathematics	Dr. Nilanjana Mahata	Associate Professor
106	Mathematics	Sri Santosh Biswas	Assistant Professor
107	Mathematics	Dr. Alaka Das	Professor
108	Mathematics	Dr. Gopal Chandra Shit	Associate Professor
109	Geological Sciences	Dr. Sisir Kanti Nag	Professor
110	Geological Sciences	Dr. Debasish Shome	Professor
111	Geological Sciences	Dr. Nibir Mondal	Professor
112	Geological Sciences	Dr. Pulak Sengupta	Professor
113	Geological Sciences	Dr. Subir Mukhopadhyay	Professor
114	Geological Sciences	Dr. Dipak Ch Pal	Professor
115	Geological Sciences	Dr. Sanjoy Sanyal	Professor
116	Geological Sciences	Dr. Sisir Kanti Mondal	Professor
117	Geological Sciences	Dr. Subir Sarkar	Professor
118	Geological Sciences	Dr. Subrata Karmakar	Professor
119	Geological Sciences	Dr. Supriya Mondal	Associate Professor
120	Geological Sciences	Dr. Anupam Ghosh	Assistant Professor
121	Geological Sciences	Dr. Sadhana M. Chatterjee	Assistant Professor
122	Geological Sciences	Dr. Susanta Kr. Samanta	Professor
123	Geological Sciences	Dr. Babar Ali Shah	Assistant Professor
124	Geological Sciences	Dr. Sunipa Mandal	Assistant Professor
125	Geological Sciences	Dr. Tridib Kumar Mondal	Assistant Professor
126	Geological Sciences	Dr. Susanta Chaudhuri	Assistant Professor
127	Geological Sciences	Dr. Soumik Mukhopadhyay	Assistant Professor

Annual Report 2017-18

Sl. No.	Department	Name of the Faculty Members	Present Designation
128	Life Science and Bio-Technology	Dr. Ratan Gachhui	Professor
129	Life Science and Bio-Technology	Dr. Parimal Karmakar	Professor
130	Life Science and Bio-Technology	Dr. Biswadip Das	Professor
131	Life Science and Bio-Technology	Dr. Paltu Kumar Dhal	Assistant Professor
132	Instrumentaion Science	Dr. Anup Kr. Ghosh	Assistant Professor
133	Instrumentaion Science	Dr. Sankar Narayan Patra	Assistant Professor
134	Instrumentaion Science	Dr. Sachindranath Das	Assistant Professor
135	Instrumentaion Science	Dr. Radhaballabh Bhar	Professor
136	Geography	Dr. Lakshmi Sivaramakrishnan	Professor
137	Geography	Dr. Debajit Dutta	Assistant Professor
138	School of Oceanographic Studies	Dr. Goutam Kumar Sen	Professor
139	School of Oceanographic Studies	Dr. Sugata Hazra	Professor
140	School of Oceanographic Studies	Dr. Tuhin Ghosh	Associate Professor
141	School of Environmental Studies	Dr. Joydeep Mukherjee	Associate Professor
142	School of Environmental Studies	Dr. Tarit Roychowdhury	Associate Professor

Annual Report 2017-18

STUDENT PROFILE

TOTAL STUDENT STRENGTH OF THE UNIVERSITY 2017-18 (CATEGORY-WISE)

CHART I

Faculty	Total Students Strength	General		SC		ST		OBC-A		OBC-B		Sports/ QIP		Total	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
FACULTY OF ARTS	3753	853	1504	463	455	92	88	76	57	58	78	7	13	1556	2197
FACULTY OF ENGG. & TECH.	5531	3218	487	992	152	204	47	212	12	142	19	7	1	4813	718
FACULTY OF ISLM	481	225	138	55	26	4	1	7	5	12	6	0	0	306	175
FACULTY OF SCIENCE	1461	656	307	213	95	34	17	44	11	45	19	5	5	1006	455
TOTAL	11226	4934	2436	1723	728	334	153	339	85	257	122	19	19	7681	3545

CHART I : CONTD.

PD		Muslims		Christians		Others		Foreign*		Other State*	
M	F	M	F	M	F	M	F	M	F	M	F
20	7	55	41	2	3	7	13	8	11	93	164
33	5	183	7	19	1	2	0	28	18	912	88
2	0	7	2	0	1	0	0	0	1	13	4
9	1	61	16	1	0	4	4	0	1	43	28
64	13	306	66	22	5	13	17	36	31	1061	284

* NOTE :- The figures appearing in PD, Minority, Foreign and Other State are already included in the total column.

* NOTE :- No Third Gender has been admitted in the session 2017-18.

Annual Report 2017-18

CHART II : Faculty of Arts (Session : 2017-18) Total no. of students (Category wise)

Departments ARTS	Courses	Total Students Strength	General		SC		ST		OBC-A		OBC-B		Sports/ QIP		Total	
			M	F	M	F	M	F	M	F	M	F	M	F	Male	Female
Bengali	UG	188	35	75	22	25	4	5	4	8	1	5	1	0	70	118
Bengali	PG	131	26	56	15	23	2	2	0	2	1	3	0	0	44	87
Bengali	M.Phil	36	12	8	4	5	2	0	1	1	1	1	0	0	21	15
Bengali	PG (EVE.)	93	23	36	16	9	1	1	0	4	0	2	1	0	43	50
Comparative Literature	UG	179	34	83	22	15	4	6	4	1	5	4	1	0	70	109
Comparative Literature	PG	93	15	61	6	6	0	3	0	0	2	0	0	0	23	70
Comparative Literature	M.Phil	33	4	17	2	4	1	1	0	2	0	1	0	0	7	26
Economics	UG	209	50	79	20	33	5	3	1	1	6	10	1	0	83	126
Economics	PG	93	28	44	3	12	1	2	0	1	1	0	0	1	33	60
Economics	M.Phil	19	7	10	0	1	0	0	1	0	0	0	0	0	8	11
English	UG	188	29	82	17	26	5	8	3	4	5	6	0	1	60	128
English	PG	127	28	62	4	22	4	0	0	3	0	3	0	0	37	90
English	M.Phil	42	15	14	2	7	0	1	1	1	1	0	0	0	19	23
Philosophy	UG	185	49	62	24	20	4	6	8	2	3	3	0	3	88	97
Philosophy	PG	116	25	48	17	12	2	2	4	1	1	2	0	0	50	66
Philosophy	M.Phil	39	5	19	6	4	1	0	1	1	1	0	0	0	15	24
Sanskrit	UG	164	34	62	22	29	1	7	3	1	1	3	0	1	61	103
Sanskrit	PG	101	18	30	21	24	1	1	0	0	4	2	0	0	44	57
Sanskrit	M.Phil	31	7	7	8	1	2	0	1	2	1	1	0	0	19	12
Sanskrit	PG (EVE.)	96	23	32	23	11	1	0	1	2	2	1	0	0	50	46
International Relations	UG	195	48	70	21	24	7	6	8	1	1	5	0	3	87	108

Annual Report 2017-18

CHART II Contd. : CHART II : Faculty of Arts (Session : 2017-18)

Departments ARTS	Courses	Total Students Strength	General		SC		ST		OBC-A		OBC-B		Sports/ QIP		Total	
			M	F	M	F	M	F	M	F	M	F	M	F	Male	Female
International Relations	PG	120	26	58	13	8	3	6	2	1	2	1	0	0	46	74
International Relations	M.Phil	33	4	14	2	5	0	3	4	0	0	1	0	0	10	23
History	UG	187	36	74	27	18	7	4	4	6	1	7	2	0	78	109
History	PG	97	27	42	12	5	2	1	1	2	0	1	0	0	46	51
History	M.Phil	38	10	13	5	3	1	1	3	0	1	0	0	0	21	17
History	PG (EVE.)	43	17	6	8	6	1	0	3	0	1	1	0	0	30	13
Sociology	UG	126	17	68	5	17	1	6	1	4	2	2	0	3	26	100
Sociology	PG	63	4	40	3	8	2	2	1	1	1	1	0	0	11	52
Sociology	M.Phil	34	3	17	4	3	0	2	1	2	0	2	0	0	8	26
Education	UG	191	39	82	25	27	7	4	1	0	2	1	0	0	77	114
Education	PG	96	17	40	14	12	4	1	1	0	3	1	1	0	42	54
Education	M.Phil	36	12	9	3	4	2	0	3	0	1	1	0	0	19	17
Lib. & Inf. Science	UG	56	11	29	4	9	0	0	0	1	0	2	0	0	18	38
Lib. & Inf. Science	PG	17	4	7	2	2	0	0	0	0	0	1	0	1	7	10
Lib. & Inf. Science (Digital Library)	PG	33	11	12	4	2	2	0	0	0	1	1	0	0	18	15
Film Studies	PG	59	33	16	5	2	1	0	1	0	1	0	0	0	41	18
Physical Education	UG	96	18	6	36	6	9	2	9	2	5	3	0	0	77	19
Yoga Therapy	PG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Education	PG	70	31	14	16	5	2	2	0	0	0	0	0	0	49	21
Total		3753	835	1504	463	455	92	88	76	57	58	78	7	13	1556	2197

Annual Report 2017-18

CHART II : CONTD.

PD		Muslims		Christians		Others		Foreign*		Other State*	
M	F	M	F	M	F	M	F	M	F	M	F
3	0	5	3	0	0	0	0	0	0	0	1
0	1	1	1	0	0	0	0	0	0	0	5
1	0	1	0	0	0	0	0	0	0	0	0
0	0	2	5	0	0	0	0	0	0	2	1
0	0	4	1	0	0	1	2	0	1	1	2
0	0	0	0	0	0	0	0	1	1	1	18
0	1	0	2	0	0	0	0	0	0	0	0
0	0	1	2	0	0	1	2	1	1	5	6
0	0	1	0	0	1	0	0	0	0	3	14
0	0	0	0	0	0	0	0	0	0	0	0
1	1	2	4	0	0	2	2	0	0	2	2
1	0	0	1	0	1	0	0	0	0	8	15
0	0	0	0	0	0	0	0	0	1	0	2
0	1	3	2	0	0	0	0	1	1	2	2
1	1	3	1	0	0	0	0	0	0	8	13
1	0	0	0	0	0	0	0	0	0	0	0
0	0	4	0	0	0	0	0	0	0	0	2
0	0	0	0	0	0	0	0	0	0	15	25
0	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	2	3
1	0	4	1	1	0	3	1	1	2	5	8
0	0	2	1	0	0	0	1	2	2	16	14

Annual Report 2017-18

CHART II : CONTD.

PD		Muslims		Christians		Others		Foreign*		Other State*	
M	F	M	F	M	F	M	F	M	F	M	F
0	0	0	1	0	0	0	0	0	0	1	1
1	0	3	7	0	0	0	0	1	1	3	0
4	0	1	2	0	0	0	0	0	0	5	6
1	0	0	0	0	0	0	0	0	0	1	1
0	0	1	0	0	0	0	0	0	0	1	0
0	0	1	2	0	0	0	2	1	0	1	3
0	0	1	1	1	1	0	1	0	1	1	5
0	0	0	0	0	0	0	1	0	0	1	1
3	0	1	1	0	0	0	1	0	0	3	2
2	0	3	2	0	0	0	0	0	0	1	4
0	1	2	0	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	1	0
0	0	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	3
0	0	1	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	6	1	0	0	0	0	0	0	2	5
20	7	55	41	2	3	7	13	8	11	93	164

* NOTE :- The figures appearing in PD, Minority, Foreign and Other State are already included in the total column.

* NOTE :- No Third Gender has been admitted in the session 2017-18.

Annual Report 2017-18

CHART III : FACULTY OF ENGG. & TECH. (2017-18) Total no. of students (Category wise)

Departments Engg. & Tech.	Courses	Total Students Strength	General		SC		ST		OBC-A		OBC-B		Sports/ QIP		Total	
			M	F	M	F	M	F	M	F	M	F	M	F	Male	Female
Architecture	UG	155	58	50	24	10	3	1	3	1	2	1	0	0	92	63
Architecture	PG	14	6	6	0	2	0	0	0	0	0	0	0	0	6	8
Chemical Engg.	UG	385	214	28	63	17	20	5	16	1	9	1	1	0	329	56
Chemical Engg.	PG	25	16	3	4	1	1	0	0	0	0	0	0	0	21	4
Bioprocess Engg.	PG	15	2	9	1	3	0	0	0	0	0	0	0	0	3	12
Civil Engineering	UG	489	304	11	104	5	23	2	24	0	9	2	0	0	469	20
Civil Engineering	PG	36	25	3	7	0	1	0	0	0	0	0	0	0	33	3
Civil Engineering	UG (Eve.)	189	116	19	36	3	2	0	3	1	7	2	0	0	164	25
Computer Sc.& Engg.	UG	291	173	11	53	3	17	4	17		10	0	2	0	273	18
Computer Sc. & Engg.	PG	46	25	6	10	3	0	1	0	0	0	1	0	0	35	11
Computer Sc. & Engg. (MCA)	PG	91	41	29	11	4	2	1	0	0	3	0	0	0	58	33
Computer Sc. & Engg. (M.Tech)	PG	72	31	28	8	3	0	0	1	0	0	1	0	0	40	32
Construction Engg.	UG	149	95	2	31	2	5	0	8	0	6	0	0	0	145	4
Construction Engg.	PG	55	34	9	9	3	0	0	0	0	0	0	0	0	43	12
Electrical Engineering	UG	469	271	26	98	4	22	7	22	1	12	1	1	0	430	39
Electrical Engineering	PG	36	27	2	4	0	1	0	0	1	1	0	0	0	33	3
Electrical Engg. (Control System)	PG	9	4	3	0	2	0	0	0	0	0	0	0	0	4	5
Electrical Engg. (Illumination)	PG	36	27	2	4	0	1	0	0	1	1	0	0	0	33	3
Electrical Engineering	UG (Eve.)	132	87	15	18	1	3	0	1	0	7	0	0	0	115	17
ETCE	UG	291	158	20	52	9	15	6	14	1	10	1	1	1	253	38
ETCE	PG	25	16	2	5	2	0	0	0	0	0	0	0	0	21	4
ETCE (VLSI)	PG	43	21	16	2	3	0	0	1	0	0	0	0	0	24	19
ETCE (Robotics)	PG	47	20	14	7	4	0	0	0	0	1	1	0	0	28	19
FTBE (B.E)	UG	119	64	15	22	6	4	1	3	0	3	0	0	0	97	22

Annual Report 2017-18
CHART III : CONTD.

FTBE	PG	11	3 6	0 1	1 0	0 0	0 0	0 0	0 0	3 8
Information Technology	UG	292	170 24	49 10	13 3	14 0	8 1	0 0	0 0	254 38
Information Tech.(Software Engg.)	PG	42	22 9	6 1	1 0	2 0	1 0	0 0	0 0	32 10
Information Technology (Software Engg.) TCS	PG	37	27 4	5 1	0 0	0 0	0 0	0 0	0 0	32 5
IEE (B.E)	UG	177	104 11	34 5	7 4	8 0	3 1	0 0	0 0	156 21
IEE	PG	11	7 2	1 1	0 0	0 0	0 0	0 0	0 0	8 3
IEE (B.Tech.)	UG	42	28 10	2 1	0 0	1 0	0 0	0 0	0 0	31 11
Mechanical Engineering	UG	467	296 1	99 0	24 1	26 0	14 0	0 0	0 0	465 2
Mechanical Engineering	PG	39	29 3	4 0	1 0	0 0	2 0	0 0	0 0	39 0
Mechanical Engg. (Automobile Engg.)	PG	8	5 1	1 0	0 0	0 1	0 0	0 0	0 0	7 1
Mechanical Engineering	UG (Eve.)	161	105 7	36 3	1 0	3 0	6 0	0 0	0 0	151 10
Metallurgical Engineering	UG	138	86 6	27 2	5 0	6 0	4 0	0 0	0 0	129 9
Metallurgical Engineering	PG	16	11 0	4 0	1 0	0 0	0 0	0 0	0 0	16 0
Metallurgical Engg.(Material Engg.)	PG	26	19 2	3 0	0 0	0 0	2 0	0 0	0 0	24 2
Pharmacy	UG	249	125 25	47 16	4 5	12 1	9 1	2 0	0 0	201 48
Pharmacy	PG	49	20 15	5 3	0 1	3 1	0 1	0 0	0 0	28 21
Pharmacy (Clinical Pharmacy)	PG	12	2 8	0 1	0 0	1 0	0 0	0 0	0 0	3 9
Power Engineering	UG	178	106 7	34 5	13 0	9 0	3 1	0 0	0 0	165 13
Power Engineering	PG	33	22 1	6 2	0 0	1 0	1 0	0 0	0 0	30 3
Printing Engineering	UG	111	60 8	19 5	6 1	6 1	4 1	0 0	0 0	95 16
Printing Engineering	PG	8	7 1	0 0	0 0	0 0	0 0	0 0	0 0	7 1
Production Engineering	UG	182	112 7	34 4	5 4	7 1	4 2	0 0	0 0	166 16
Production Engineering	PG	23	17 0	3 1	2 0	0 0	0 0	0 0	0 0	22 1
Total		5531	3218 487	992 152	204 47	212 12	142 19	7 1	4813 718	

Annual Report 2017-18

CHART III : CONTD. FACULTY OF ENGG. & TECH. (2017-18)

PD		Muslims		Christians		Others		Foreign*		Other State*	
M	F	M	F	M	F	M	F	M	F	M	F
2	0	2	0	0	0	0	0	1	3	11	15
0	0	0	0	0	0	0	0	1	0	2	0
6	4	6	2	0	0	0	0	0	1	31	5
0	0	0	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0
5	0	14	0	0	0	1	0	3	0	158	4
0	0	1	0	0	0	0	0	0	0	3	0
0	0	0	0	0	0	0	0	0	0	0	0
1	0	12	0	0	0	0	0	1	3	44	3
0	0	1	0	0	0	0	0	0	0	2	1
0	0	0	0	0	0	0	0	0	1	0	3
0	0	2	0	0	0	0	0	0	0	0	0
0	0	18	0	0	0	0	0	0	0	41	1
0	0	0	0	0	0	0	0	0	0	1	0
4	0	20	1	0	0	0	0	4	1	56	7
0	0	4	0	0	0	0	0	0	0	3	0
0	0	1	0	0	0	0	0	0	0	0	1
0	0	4	0	0	0	0	0	0	0	3	0
0	0	0	0	0	0	0	0	0	0	0	0
3	0	9	1	0	1	0	0	1	0	33	7
0	0	0	0	0	0	0	0	0	0	5	0
0	0	0	0	0	0	0	0	0	0	0	0

Annual Report 2017-18

CHART III Contd. :

M	F	M	F	M	F	M	F	M	F	M	F
0	0	0	0	0	0	0	0	0	0	0	0
1	0	4	0	0	0	0	0	0	1	45	7
0	0	0	1	0	0	0	0	0	0	1	0
0	0	23	1	0	0	0	0	3	1	63	5
0	0	2	0	0	0	0	0	0	0	2	0
0	0	0	0	0	0	0	0	0	0	2	0
0	0	11	0	0	0	0	0	0	0	39	2
0	0	2	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	2	0
6	0	0	0	19	0	0	0	8	0	126	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	0	0	0	1	0	3	0	48	0
0	0	0	0	0	0	0	0	0	0	3	0
0	0	2	0	0	0	0	0	0	0	5	0
2	0	8	0	0	0	0	0	2	4	80	17
0	0	2	0	0	0	0	0	0	1	1	2
0	0	2	0	0	0	0	0	0	0	0	0
0	0	14	0	0	0	0	0	0	0	36	4
0	0	1	0	0	0	0	0	0	0	1	0
0	0	12	1	0	0	0	0	0	0	18	2
0	0	0	0	0	0	0	0	0	0	1	0
2	0	1	0	0	0	0	0	1	2	42	2
0	0	0	0	0	0	0	0	0	0	3	0
33	5	183	7	19	1	2	0	28	18	912	88

* NOTE :- The figures appearing in PD, Minority, Foreign and Other State are already included in the total column.

* NOTE :- No Third Gender has been admitted in the session 2017-18.

Annual Report 2017-18

CHART IV : FACULTY OF ISLM (2017-18)

Total no. of students (Category-wise)

Faculty of Interdisciplinary Studies Law & Management (FISLM)	Courses	Total Students Strength	General		SC		ST		OBC-A		OBC-B		Sports/ QIP		Total	
			M	F	M	F	M	F	M	F	M	F	M	F	Male	Female
Adult Cont. Education (Mental Retardation)	UG	8	1	6	0	1	0	0	0	0	0	0	0	0	1	7
Adult Cont. Education (Multiple Disabilities)	UG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
School of Bioscience & Engineering	PG	18	9	5	2	1	0	0	0	1	0	0	0	0	12	6
School of Education Technology (MMD)	PG	12	9	2	1	0	0	0	0	0	0	0	0	0	10	2
School of Education Technology (IT Courseware)	PG	28	12	10	3	1	0	0	0	0	2	0	0	0	17	11
School of Energy Studies	PG	21	15	0	4	2	0	0	0	0	0	0	0	0	19	2
School of Nuclear Studies	PG	26	19	4	2	0	0	0	1	0	0	0	0	0	22	4
School of Laser Science and Engg.	PG	15	9	2	1	0	0	0	0	0	3	0	0	0	13	2
School of Environmental Studies (Environmental-Bio-Tech.)	PG	17	6	8	1	1	0	0	0	0	1	0	0	0	8	9
Water Resources Engg. (4th Sem)	PG	28	21	1	3	0	1	0	1	0	1	0	0	0	27	1
Water Resources Engg. (6th Sem.)	PG	53	30	12	9	0	0	0	0	0	2	0	0	0	41	12
School of Distributed Mobile Computing	PG	13	6	4	2	0	0	0	0	0	1	0	0	0	9	4
School of Illumination Engg.	PG	51	27	13	6	3	1	0	0	0	0	1	0	0	34	17
School of Nano Science and Tech.	PG	30	20	6	4	0	0	0	0	0	0	0	0	0	24	6
School of Cognitive Science	M.Phil	10	2	3	2	2	0	0	1	0	0	0	0	0	5	5
School of Languages and Linguistics	PG	48	16	24	3	4	0	0	0	0	0	1	0	0	19	29
School of Languages and Linguistics	M.Phil	15	2	6	3	1	0	0	1	0	1	0	0	0	8	7
School of Oceanographic Studies	M.Phil	12	4	4	2	0	0	0	1	1	0	0	0	0	7	5
School of Women's Studies	M.Phil	37	5	17	4	4	1	1	2	1	0	1	0	0	13	24
M.A. Journalism & Mass Comm.	UG	39	12	11	3	6	1	0	0	2	1	3	0	0	17	22
Total		481	225	138	55	26	4	1	7	5	12	6	0	0	306	175

Annual Report 2017-18

CHART IV Contd.

PD		Muslims		Christians		Others		Foreign*		Other State*	
M	F	M	F	M	F	M	F	M	F	M	F
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	2	0
0	0	0	0	0	0	0	0	0	0	1	0
0	0	1	0	0	0	0	0	0	0	2	0
0	0	0	0	0	0	0	0	0	0	3	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0	0	0
0	0	2	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	1	0
1	0	0	0	0	0	0	0	0	0	0	1
0	0	1	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	1	0	1
1	0	0	0	0	0	0	0	0	0	0	1
0	0	1	0	0	0	0	0	0	0	1	0
0	0	1	0	0	0	0	0	0	0	0	0
2	0	7	2	0	1	0	0	0	1	13	4

* NOTE :- The figures appearing in Minority, Foreign and Other State are already included in the total column.

* NOTE :- No Third Gender has been admitted in the session 2017-18.

Annual Report 2017-18

CHART V : FACULTY OF SCIENCE (2017-18) Total no. of students (Category wise)

Department SCIENCE	Courses	Total Students Strength	General		SC		ST		OBC-A		OBC-B		Sports/QIP		Total	
			M	F	M	F	M	F	M	F	M	F	M	F	Male	Female
CHEMISTRY	UG	159	55	42	24	12	4	3	7	2	4	1	0	1	97	62
CHEMISTRY	PG	84	33	25	11	8	1	0	2	0	2	1	0	1	49	35
CHEMISTRY	PG (EVE.)	62	35	18	3	0	0	0	2	1	3	0	0	0	43	19
GEOLOGICAL SC.	UG	118	58	16	16	11	2	1	2	2	4	4	2	0	84	34
GEOLOGICAL SC.	PG	68	37	12	4	9	1	0	2	0	2	1	0	0	46	22
GEOGRAPHY	UG	41	11	14	4	5	0	0	0	1	3	2	1	0	19	22
MATHEMATICS	UG	259	114	43	48	11	9	7	11	1	7	5	0	1	191	68
MATHEMATICS	PG	125	67	14	26	5	2	4	0	2	3	0	1	0	100	25
MATHEMATICS	PG (EVE.)	92	45	24	18	2	0	0	1	0	1	1	0	0	65	27
PHYSICS	UG	195	76	33	30	18	12	2	10	1	8	1	1	2	138	57
PHYSICS	PG	97	46	21	13	8	3	0	2	0	3	0	0	0	68	29
PHYSICS	PG (EVE.)	72	34	18	12	2	0	0	2	0	3	0	0	0	52	20
MEDICAL PHYSICS	PG Diploma	10	6	2	1	1	0	0	0	0	0	0	0	0	7	3
LIFE SCIENCE & BIO TECH.	PG	41	16	15	1	3	0	0	2	0	1	3	0	0	20	21
ELECTRONICS SC.	PG	15	8	3	1	0	0	0	1	1	1	0	0	0	11	4
INST. SCIENCE	PG	23	15	7	1	0	0	0	0	0	0	0	0	0	16	7
Total		1461	656	307	213	95	34	17	44	11	45	19	5	5	1006	455

Annual Report 2017-18

CHART V Contd.

PD		Muslims		Christians		Others		Foreign*		Other State*	
M	F	M	F	M	F	M	F	M	F	M	F
3	1	7	2	0	0	0	3	0	0	2	1
0	0	2	0	0	0	0	0	0	0	6	13
0	0	3	3	0	0	0	0	0	0	1	1
0	0	2	3	1	0	1	0	0	0	0	0
0	0	2	0	0	0	0	0	0	0	12	2
0	0	1	1	0	0	0	0	0	0	0	2
2	0	12	1	0	0	0	0	0	0	4	4
1	0	5	2	0	0	0	1	0	0	0	0
0	0	1	2	0	0	0	0	0	0	0	0
1	0	13	0	0	0	3	0	0	1	2	2
1	0	7	1	0	0	0	0	0	0	11	1
1	0	4	0	0	0	0	0	0	0	3	1
0	0	1	0	0	0	0	0	0	0	1	0
0	0	1	0	0	0	0	0	0	0	0	0
0	0	1	1	0	0	0	0	0	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0
9	1	61	16	1	0	4	4	0	1	43	28

* NOTE :- The figures appearing in Minority, Foreign and Other state are already included in the total column.

* NOTE :- No Third Gender has been admitted in the session 2017-18.

SECTION B

[ACADEMIC REPORT. 1.04.2017 TO 31.03.2018]

FACULTY COUNCIL OF ARTS

D E P A R T M E N T S

BENGALI

Phone : + 91-33-2414-6267
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Prof. Sekhar Kr. Samaddar (From 21.6.2016)
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Publications

Sampa Chaudhuri : Professor

1. 'Madhyabitter noitik sankat o Jyotirindra Nandir uponyase nari-purusher abasthan' (Published in *Golpomela*, December, 2017)
2. 'Biswayaner dharona o Ketakir kothonbiswa' (Published in *Bangla Bibhagiyo Patrika*, March, 2018)

Book Review

1. 'Kobir thriller o anyanyo' (Published in *Desh*, 2 October, 2017)

Publications

Sekhar Kumar Samaddar : Professor

1. 'Rajhans, Chaya Abong Mritya Hariner Natok', *Bangla Bibhagiya Patrika*, Department of Bengali, Jadavpur University, March, 2018 (Self edited)
2. 'Sundar Bibir Pala' (An original Bengali play), Lalmati Prakashan, Kolkata, 5th August, 2018
3. 'Girishchandra; Bango Natyer Swarup Sandhane; Pratham Parba', *Grish Kotha*, Edited by Bratya Basu, Minarva Natya Sanskriti Charcha Kendra, Kolkata, 26th September, 2018
4. 'Mancha sajjya'r nandyanikata', *Bangla Bibhagiya Patrika*, Jadavpur university, (In Print) (Self Edited)

Lecture Delivered:

1. Lecture delivered on 'Bitarka Sabha' (An Evening on Debate) Organized by Thealover's, 16th September, 2018

Publications

Dr. Barendu Mandal : Associate Professor

1. 'Amiobhashan: Swatantrer Sandhane Punorbar' (Published in *Alochona Chakra*, 2018)
2. "Prothom Biswajuddha, 'Balaka' O Rabindranath" (Published in *Ebong Musaera*, 2017)
3. 'Kayesh Ahomedar Galpa' (Published in *Shubhashree*, January, 2018)
4. 'Kalantare Bangladesher Chotogalpa' (Published in *Shubhashree*, January, 2018)
5. 'Belder, Korader O Sundarbaner Nadibadh', (Published in *Sudhu Sundarbancharccha*, January, 2018), ISSN— 2319-9733
6. 'Mrittur Nipun Shilpo: Prosongo Bangla Kabita' (Published in *Kobi*, February, 2018), ISSN— 2306-9481
7. 'Bangalir Atmoswaruper Sandhan O Bangladesher Kobita', (Published in *Swadhinota-Parabarti Bangla Kobitar Gotiprakriti* [Edited book], Edited by Sekh Rofikul Hossain, Rohini Nandan, 2018), ISBN— 978-81-936584-2-0

8. 'Jagadish Gupter Adhunikota' (Published in *Ujagar*, February, 2018), ISSN— 0976-7398
9. 'Amiobhashaner Koyekti Ochena Galpa' (Published in *Ebong Musaera*, January- March, 2018), ISSN— 0976-9307

Lecture Delivered:

1. Lecture delivered on 'Varotio Jatiotabad O Rabindranath' in a seminar Organized by Brihat Bangio Sahitya-Sangaskriti Samiti, 26th January, 2018
2. Lecture delivered on 'Bangalir Atmaswaruper Sandhan O Bangladesher Kobita' in a seminar Organized by Rabindrabharati University, Kolkata, 15th March 2018
3. Lecture delivered on 'Muktijuddher Sahitya O Samar-Sahitya: Ekti Tulonamulak Path' in a seminar Organized by Rajsahi University, Bangladesh, 6th April—7th April, 2018
4. Lecture delivered on 'Smakalin Purbabanga O Abul Mansur Ahomedar Kothasahitya' in a seminar Organized by Netaji Subhas Open University, Bangladesh, 21st April, 2018
5. Lecture delivered on 'Ekusher Chetona O Ajker Chatrosamaj' in a seminar Organized by Diamond Harbour Womens University, South 24 Pgs., 21st May, 2018
6. Lecture delivered on 'Ei Kalbela O Rabindranath' in a seminar Organized by Acharya Sukumar Sen Mahavidyalaya,, East Burdwan, 8th August, 2018

Dr. Rajyeswar Sinha : Associate Professor

1. Lecture delivered on 'Chotoder Kamakshiprasad Chattapadhyay' in a seminar Organized by Sahitya Academy, Kolkata, November, 2017
2. Lecture delivered on 'Antarjatic Matrivasa Divaser Tatparjya' in a seminar Organized by Bijoygarh Jyotish Roy College, Kolkata, 21st February, 2018
3. Lecture delivered on 'Bangalir Randhanshilpa' in winter school Organized by Dept. of Comparative Literature & the UGC-HRDC, Jadavpur University, Kolkata, 18th November, 2018

Publications

Dr. Joydeep Ghosh : Asst. Professor

1. 'Rabindranta O Chhapa Akkhorer Mokabila', *Bangla Bibhagiya Patrika*, Department of Bengali, Jadavpur University, March, 2018

Lecture Delivered

1. Lecture delivered on 'Abanindranather Kolkata' in a seminar Organized by Tagore Research Institute, Kolkata, 14th August, 2017
2. Lecture Delivered on 'Jibani Lekhar Samasya' in a seminar organized by Bangiya Sahitya Parishat, Kolkata, 27 January, 2018

Publications:

Dr. Payel Basu : Asst. Professor

1. '*Ujagar: Jagadish Gupta Sangkhar Somalochona*', (Published in *Ajkal*, Kolkata, June, 2017)
2. '*Anander Bhasha, Bohurupe Bhasha*', Edited by Shamashree Biswas Sengupta, (Published in *Pratibhas*, Kolkata, August, 2017), ISBN— 978-93-85393-99-0
3. '*Rabindranath O Gonomadhyam*', Edited by Ayantika Ghosh, (Published in *Bangiyo Sahitya Sangsad*, Kolkata, 20th September, 2017), ISBN— 978-93-83590-57-5

COMPARATIVE LITERATURE

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1. A. Courses Offered:

Name of the Course	Duration	No of Students Enrolled
B.A (Honours)	3 years; 6 semesters	178
B.A (ED/GE)	Semesters 1, 2, 3, 4	63
M.A.	2 years; 4 semesters	105
MPhil	2 years; 4 semesters 1 st and 2 nd year)	38(19 each in the
PhD Course Work	12	
Registered for PhD	32	
Certificate Course in Translation	6 months	30

1. B. Number of Faculty Members:

Permanent: Sanctioned posts: 15 (2 Professor; 3 Associate Professor; 10 Assistant Professor) In position: 11 (1 Professor; 2 Associate Professor; 8 Assistant Professor)

On lien: 1 (Assistant Professor)

Vacant: 3 (1 Professor; 1 Associate Professor; 1 Assistant Professor; of these 2 posts have been advertised, 1 each of Assoc Prof and Asst Prof, and 1 Professor's post has very recently been vacated by Ipshita Chanda)

Guest Faculty: 0

2. A. Area of Research Activities: (Broad Areas)

Areas identified by Board of Studies (BOS) and External Experts for research under the Centre of Advanced Study (CAS) Phase III are:

(a) *Comparative Literature: Texts, Contexts, Methods*

- Issues and aspects related to Comparative Literature pedagogy specifically keeping in mind the Indian context
- With the recent considerable growth of Comparative Literature Departments, as well as Centres and Schools:
- A demand is growing for text material for core courses on 'Comparative Literature: Definition, Scope, History,' which will be sought to be met.

(b) *Inter-literary Transactions: Indian and Asian Contexts*

- In today's globalized world, there is an ever greater need to find the right balance between opening the doors to the world and understanding Indian literatures in their multiplicity, and

the interconnections within India and among Asian languages, literatures and cultures, without shutting the doors on non-Asian language literatures.

(c) *Interactions between Literature and other Knowledge Systems*

- issues related to orality, oral history
- testimonial literature,
- the storytelling tradition,
- performance.

2. B. Major Research Project:

(Departmental/Individual, Name of the Project/Funding Agency)

Kavita Panjabi

- “Asian Cultures in Confluence & Transition: Tracing the Histories, Lore, and Cultural Memory of Baltistan”. Funded by the UGC – Centre for Advanced Study III, Dept of Comparative Literature, J.U.

Sayantan Dasgupta

- Project Anuvad (UGC UPE 2: CR&SS). Principal Investigator: Sayantan Dasgupta.

Parthasarathi Bhaumik

- Individual Project, ‘Soundscapes of Kolkata’, UPE Phase III, UGC.

Sumit Kumar Barua

- “Reception of Theravada Buddhist Tradition in Bengal in late 19th and early 20th century”, CAS, Phase – III, Department of Comparative Literature, Jadavpur University.

3. A. Invited Lectures Delivered/Sessions Chaired:

(Name of the Teacher, Type of Participants, Name of the Seminar / Conference etc. Place, Duration)

Suchorita Chattopadhyay

- Keynote address delivered at One Day workshop on Translation Studies at Bhairab Ganguly College, Kolkata, March 15, 2018.
- Refresher Course 2018, Department of Sociology, University of Calcutta on ‘Socio - Cultural Transformation: Issues and Insights, February 15, 2018.
- Refresher Course 2018, on “Research methodology in the field of Literature” organized by Department of South and South East Asian Studies, University of Calcutta, February 3, 2018.

Kunal Chattopadhyay

- The Russian Revolution and Its Lessons – Loreto College Kolkata – 25 November 2017.
- The Russian Revolution and its Aftermath – South Calcutta Girls’ College – 28 November 2017.
- The Russian Revolution – The Politics of Historiography – RKSM Vivekananda Vidyabhavan – 13 December 2018.
- Class Struggle, Party and United Front – Centre for Marxist Studies Residential School, Puducherry, 4 January 2018.

Annual Report 2016-17

- Chaired a session at the 34th Annual Conference, PaschimBanga Itihas Samsad, 24-26 January 2018, Sessions on Literary-Cultural History of Modern India.
- Chaired a session at the Commemorations: International Seminar, Department of History, Jadavpur University – Chaired the session on The Era of the Bolshevik Revolution, 2 February 2018.

Kavita Panjabi

- Invited Talk at the launch of the first Spanish Bengali bilingual edition of the classic Argentine epic poetic work *Martin Fierro* on 20th March 2018 at the Paschimbanga Bangla Academy, organized by the Embassy of Argentina in India.
- Keynote Address at Loreto College on *Women Achievers: Breaking the Glass Ceiling*, organized by the Women's Study Society Loreto College, in collaboration with Basanti Devi College. 9 March 2018.
- Invited Talk, 20th Shahid Pritilata Waddedar Memorial Lecture jointly organised by the School of Women's Studies and Biplabtirtha Chattagram Smriti Sanstha on 'Tebhaga O Nari Andolan' on 16 January 2018.
- Invited Plenary talk, entitled "South Asian Feminist Challenges to the Fictions of "Sectarian" Violence" delivered at the International Conference on Women and Sectarian Violence: Fiction and Reality, on 9-10 Nov, 2017 at Central University of Gujarat.
- Chaired a Session on 15 November 2017 at the International Conference 'Memories – Memorials – Memorializations, The Politics of Remembering and Forgetting' organized by the Goethe-Institut / Max Mueller Bhavan, New Delhi.
- Delivered a talk on "Literary Studies and Oral Narratives" on November 17, 2017 at the Winter School "Literature and the Other Arts" organized by the UGC – Human Resource Development Centre & the Department of Comparative Literature from November 6 – 25, 2017.

Sayantana Dasgupta

- "Travelling with Tintin" on November 15, 2017. UGC-HRDC, Jadavpur University, and Department of Comparative Literature, Jadavpur University, "Winter School on Literature and the Other Arts" (6 Nov to 25 Nov, 2017).
- Resource Person for CAS Phase III Workshop on "Comparative Literature: Tracing Journals in India and the World" (23-24 March, 2018).
- Chaired a session at the International Conference on 150 Years of Solitude: Narratives on Canada's Conflicts and Reconciliations, Centre for Canadian Studies, Jadavpur University, 9-11 January, 2018.
- "Comparative Literature in India". Invited paper at National Seminar on "Indian Comparative Literature", Presidency University, February 7, 2018.
- Keynote Lecture at "Stylistics and Translation" workshop at Adamas University, 20 February, 2018.
- Invited talk and presentations at the Workshop on Humanities in India at the University of East Anglia, UK, March 28 and 29, 2018.

Sujit Kumar Mandal

- Resource person, 65th Orientation Programme (17.07.2017 to 12.08.2017) organized by UGC-HRDC, JU, 9 August 2017.

Annual Report 2016-17

- Invited lecture on “Oral Traditions: Research Methodology”, Short-term Course (STC) on Research Methodology in Social Science and Humanities organized by Department of Economics and UGC-HRDC at Jadavpur University, 6 – 11 November 2017.

Epsita Halder

- “Ethnography as Anxiety and Intimacy”, 26 August 2017, as a part of the Exhibition titled “In-Between”, at the Korean Cultural Centre, New Delhi, 25 August – 25 September 2017, where my ethnographic findings on Muharram were installed.
- “*Never ignore your mother tongue Bangla, the goddess: Bangla as the jatiya language for the Bengal Muslims (1880s-1940s)*”, 4 July 2017, at the Brick Lane Circle, London.

Debashree Dattaray

- Invited Public Lecture on “Indigeneity and Northeast India: A Cinematic Vision” at the McGill Institute for the Study of Canada, McGill University, Montreal on 14 March, 2018.
- Invited Talk on “Borders and Indigeneity” at GE0398 “Geographies of Displacement” at the Department of Geography, Planning and Environment, Concordia University, Montreal on 13 March, 2018.
- Invited Seminar Talk on “Indigenous Communities from North East India” organized by the School of Physics and School of Education, University of Witwatersrand, Johannesburg, South Africa on 20 October, 2017
- Invited speaker for a panel discussion on “Indigenous Knowledge and Science Education” organized by the School of Physics and School of Education, University of Witwatersrand, Johannesburg, South Africa on 19 October, 2017.

Sumit Kumar Barua

- Presented a paper on “Unabinsa Sataker Prekkhite Bankimchander ‘Dampatya’ Bhabnar Biseshattwa” in an International Seminar titled “*Bankimchandra*” organized by Bankimchandra Centre for Comparative Indian Literature, Rabindra Bharati University, Kolkata on 28 June, 2017.
- Presented a paper on “Unabinsa Sataker Dwitiyardha o Bingsa Sataker Prathamardhe Buddhacharit Charchar Ekdik” in the *Third Annual International Conference 2017* jointly organized by Paschimbanga Anchalik Itihas O Loksanskriti Charcha Kendra and Bidhannagar College, Kolkata on 01 July 2017.
- Invited talk on “Unabingsa Sataker Dwitiyardha o Bingsa Sataker Prathamardhwe Bouddha-Sanskritir Punorutthane Bhahma-Sanskritir Avadna” in an International Seminar titled “*Role of Bengal in the Revival of Buddhism*”, organized by ICPR Center for Buddhist Studies, Department of Philosophy, Jadavpur University, Kolkata on 04 August 2017.
- Presented a paper on “*BaEgavâni Patrikay Koyekti ‘Bouddha’ Kabitar Paryalocona*” in an International Seminar titled “*Spread of Buddhism in Bengal and A Survey of the Buddhist Archaeological Sites: Past and Present*”, organized by ICPR Center for Buddhist Studies, Department of Philosophy, Jadavpur University, Kolkata on 12 August 2017.
- Presented a paper on “Ouponibeshikota, Bankimchandra aar *Abhijnân Úakuntalam: Ekti Anwasha*” in the International Seminar titled “*Unish Satak: Bangla Sahitya o Snskriti*” organized by Diamond Harbour Women’s University, South 24 Pgs. on 6, 7 March 2018.

- Presented a Paper on “Ouponibeshikota o Rabindranather *Úakuntalâ*” in the State Level Seminar titled “*Sanskrita Sammelan*” organized by Sanskrit Sahitya Parishat, Kolkata on 31 March 2018.

3. B. Seminar/Workshop/Conference/Symposium Attended:

(Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)

Kunal Chattopadhyay

- রুশ বিপ্লবের ইতিহাস চর্চাঃ এক শতাব্দীর রাজনীতি – Paper presented at seminar organised by Paschim Banga Itihas Samsad and Council for Political Studies, 11 November 2017, Indumati Sabhagriha, Jadavpur.
- ভারতীয় সাহিত্যে সাম্যবাদী প্রভাবে উর্দু সাহিত্যের ভূমিকাঃ আঙ্গারে ও তার উত্তরাধিকার – Paper presented at 34th Annual Conference of Paschim Banga Itihas Samsad, 25 January 2018, Jadavpur University, in collaboration with the School of Women’s Studies
- Marx , Human Freedom, and the Greek Legacy – in Commemorations: International Seminar, Department of History, Jadavpur University, 2 February 2018, session on Marx.

Sucheta Bhattacharya

- Presented a paper: The ‘Rogue Art’ of Hogarth and/vs the Print Culture of the Victorians. Name of the Seminar: From Queen Anne to Queen Victoria, Readings in 18th and 19th century British literature and culture. Place: Institute of English, University of Warsaw, Poland. Duration:27-29 September, 2017.
- The ‘rogue art’ of William Hogarth and the Victorian Novel. Winter School, JUCL, November 2017.

Debashree Dattaray

- Presentation of paper on “Elders and the Indigenous Space: Interrogating Cultural Conflicts and Glocal Transformations” at the national conference on “Ageing, Ageism and Cultures” organized by the Department of English, Centre of Advanced Studies, Jadavpur University, 21 – 22, September 2017.
- Presentation of paper on “A Sea for Encounters: Changing Epistemologies in T.S. Pillai’s *Chemmeen*” at the 2017 Annual International Colloquium of the Society of Activities and Research on Indian world (SARI) on “A Sea For Encounters: Precarity, Epistemology and Narrative” organized at the Villetaneuse campus of the University of Paris 13 with the support of the Universities of Paris 13, Paris Nanterre and Rouen Normandie on 29 – 30 June, 2017.

Sumit Kumar Barua

- Participated a Seminar on “One Hundred Years of the Publication of *Caryâgîtîkocâ*”, organized by The Asiatic Society, Kolkata, June 2017.
- Participated The Seventh World Buddhist Symposium on “The Way to Happiness”, organized by The World Youth Buddhist Society (China) and Mahachulalongkornrajavidyalaya University Chiang Mai Campus (Thailand), held on Chiangmai, Thailand, 30 July to 2 August 2017.
- Participated a One-day Symposium on “*Siddheswar Chattopadhyay (1918–1993): An Embodiment of Traditional and Innovation*”, organized by The Asiatic Society, Kolkata, 8 November 2017.
- Participated in the International Symposium on “*Buddhist Exchanges between China and India: Past and Future*”, organized by the Consul General of the People’s Republic of China, Kolkata, 15 March 2018.

3. C. Seminar/Workshop/Conference/Symposium Organized:

(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

Suchorita Chattopadhyay

- International Conference of the Centre for Canadian Studies on “150 Years of “Solitude”: Narratives on Canada’s Conflicts and Reconciliations” organised jointly with Dr. Debashree Dattaray, January 9 – 11, 2018.

Kavita Panjabi

- International Workshop, *Latin American and South Asian Cross-Cultural Transactions: From Text to Performance* at J.U. 8-11 January 2018.

Sayantana Dasgupta

- “National-Level Workshop for Literary Translation 2017”. Organised by CENTIL, Project Anuvad (UGC UPE2: CR&SS), and Salesian College. Siliguri: June 27 to 29, 2017.
- Coordinator, Two-day Translation Workshop on “Translating Rabindranath’s Essays on Sahitya” (*Adhunik Sahitya*). Project Anuvad (UGC UPE2: CR&SS) in collaboration with Centre for Comparative Literature, Visva-Bharati. March 16 and 17, 2018.
- Coordinator. Debrupa bal Memorial National Students’ Seminar 2018. March 20 and 21, 2018.
- Coordinator. “Literary Translation: An Orientation Workshop”. CAS Phase 3, Department of Comparative Literature, Jadavpur University, March 28, 2018.
- “Literary Translation Workshop on Contemporary Indian Bhasha Literatures”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS with Shri Shikshayatan College, Kolkata, August 25, 2017.
- CAS III Workshop on “Comparative Literatures: Texts, Contexts and Concepts”, CAS III with CENTIL, August 29-31, 2017.
- Workshop on “Contemporary Indian Nepali-Language Writings”, organized by the CENTIL under Project Anuvad, UGC-UPE 2: CR&SS on September 14, 2017 (for publication in *Bhashabandhan*).
- “Writing Places” Project, CENTIL with Writers’ Centre Norwich and BCLT, University of East Anglia, October 2 to December 11, 2017.
- “Translation: An Orientation Workshop for Nepali-Speaking Students of Jadavpur University”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, November 3, 2017.
- “*Chandrika* Preliminary Translation Workshop”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, November 28, 2017 – December 20, 2017.
- International Workshop on “Latin American and South Asian Cross Cultural Transactions: From Text to Performance”, CSLALC with CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, January 11, 2018.
- “*Chandrika* Translation Workshop II”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, January 15, 2018 – January 21, 2018.
- Translation Workshop on “Gandhi in Bangla Literature”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, March 9, 2018.

Sujit Kumar Mandal

- Organized a seminar in the memory of Late Kalikaprasad Bhattacharya as part of Project Palagaan, CR&SS, UGC-UPE-II, Jadavpur University, 27 April, 2017.
- Organized a Workshop on Translating Performance Texts, Organized by Project Palagaan, CR & SS, UGC-UPE-II, Jadavpur University in collaboration with CAS (Phase-III), Dept. of Comparative Literature, Jadavpur University, 13- 18 November, 2017.
- Organized: A performance by *Kanikadhara* on Rabindranath Tagore, CR&SS, UGC-UPE-II, JU on 8 August 2017 at Gandhi Bhavana, JU

Debashree Dattaray

- Joint Coordinator, International Conference on Canadian Studies entitled “150 Years of ‘Solitude’: On Canada’s Conflicts and Reconciliation,” organized by Centre for Canadian Studies Jadavpur University in collaboration with Shastri Indo-Canadian Institute at Jadavpur University Kolkata on January 9 – 11, 2018.

3. D. Orientation Courses/ Refresher Courses Attended:

(Name of the Teachers, Title of the Course, Duration, Place)

Sumit Kumar Barua

- Winter School titled “*Literature and the Other Arts*” organized by UGC-HRDC, Jadavpur University and Department of Comparative Literature, Academic Staff College, Jadavpur University, 06.11.2017 to 25.11.2017.

3. E. Orientation Courses/Refresher Courses Organized:

(Name of the Teachers, Title of the Course, if any, Duration, Place)

Sujit Kumar Mandal

- Joint Coordinator, Winter School on “Literature and Other Arts”, UGC-HRDC and Department of Comparative Literature, Jadavpur University, Kolkata, November 6 – 25, 2017.

Debashree Dattaray

- Joint Coordinator, Winter School on “Literature and Other Arts”, UGC-HRDC and Department of Comparative Literature, Jadavpur University, Kolkata, November 6 – 25, 2017.

4. A. Books/Monographs etc. Published:

(Name of the Teacher, Name of the Book, Name of the Publisher)

Sayantan Dasgupta

- Sayantan Dasgupta ed. (with Tapati Mukhopadhyay) April 2017. *Khristo (Christ): An Annotated Anthology (2nd edition)*. Kolkata: Grantham Vibhaga, Visva-Bharati.
- Sayantan Dasgupta ed. (with Nilanjana Bhattacharya). April 2017. *Pracin Sahitya by Rabindranath Tagore: Annotated English Translation and Critical Essays*. Kolkata: Grantham Vibhaga, Visva-Bharati.

Sujit Kumar Mandal

- *Education and Awareness among the Persons with Disability in the Sunderbans Region: a Survey Report* by Manojit Mandal and Sujit Kumar Mandal, Kolkata: Centre for Studies and Rehabilitation of Differently Aabled Persons, Jadavpur University, December 2017, ISBN: 978-93-83660-36-0

Parthasarathi Bhaumik

- Parthasarathi Bhaumik, Case Studies, British Library, <https://www.bl.uk/case-studies/parthasarathi-bhaumik>

Epsita Halder

- *Following Forkhead Paths: Discussions on the Narrative*. (Co-editor, Setu Publication, 2017, ISBN 978 93 80677 93 4)

Debashree Dattaray

- Joint Editor with Sarita Sharma. *Ecocriticism and Environment: Rethinking Literature and Culture* (Primus Books, New Delhi, 2018 – ISBN 9789386552754)
- Issue Editor for *Littcrit: An Indian Response to Literature* (A Special Number on Indigenous Studies, Issue 84, Volume 43, Number 2, December 2017, ISSN 0970 - 8049)

Sumit Kumar Barua

- Editorial Board Member. Chawdhury, Hemendu Bikash (Ed). *Jagajjyoti* (Anthology of selected essays from *Jagajjyoti*). Bauddha Dharmankur Sabha. Kolkata: October, 2017, ISBN-978-81-86551-76-9.
- Ed book: Das, Asha. *Bangla Sahitye Bauddhadharma o Sanskriti*, Vol: I. Chonnya. Kolkata: January, 2018. ISBN- 978-93-82879-48-0.
- Ed book: Das, Asha. *Bangla Sahitye Bauddhadharma o Sanskriti*, Vol: II. Chonnya. Kolkata: January, 2018. ISBN- 978-93-82879-99-2.
- Co-Edited with Bhikkhu, Sumanapal. *Baudhayan* (Anthology of Poetry on Buddhism). Bodhinidhi Publication. Kolkata: January, 2018.

4. B. Articles Published in Journals: (Including National/International & Peer-reviewed Journals)
(Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume)

Kunal Chattopadhyay

- Revolutionary Democracy in 1917 and the Bolsheviks – *EPW*, Vol 52., Issue 44, 4 Nov. 2017.
- রুশ বিপ্লবঃ প্রেক্ষাপট, গতিপ্রকৃতি ওচরিত্র মনতাজ নভেম্বর ২০১৭ – শতবর্ষে বলশেভিক বিপ্লব ও সোভিয়েত চলচ্চিত্র
- The Historic Lessons of the Russian Revolution – in Prithwiraj Biswas Ed: *The Russian Revolution: Historical Reflections*, Department of History, Ramakrishna Mission Vidyamandira, Belur Math, Howrah, 2017

Sayantana Dasgupta

- “Comparative Literature in India” in Dorothy Figueira and Chandra Mohan eds., *Literary Culture and Translation: New Aspects of Comparative Literature*. Primus, 2017.
- “Locating Krishnabhavini Das: From Bengal to England via France” in *Comparatism as a Critical Approach* Volume 5 (Anne Tomiche ed.), Paris. 2017.

Parthasarathi Bhaumik

- ‘Sixty Thousand Signatures against the Bengal Partition: Bengali Resistance in 1905’, Untold Lives, British Library, 14 December, 2017.
<http://blogs.bl.uk/untoldlives/2017/12/sixty-thousand-signatures-against-the-bengal-partition-bengali-resistance-in-1905.html>

- ‘Japanese and INA Propaganda in India: Anti-British Pamphlets and Leaflets of World War II’, South Asia Archive & Library Group Blog, 20 March 2018. <http://saalg.blogspot.com/2018/03/japanese-and-ina-propaganda-in-india.html>

Debashree Dattaray

- ”Rearticulating Bollywood: Through the Indigenous Lens of the North East” in *MZU Journal of Literature and Cultural Studies* (Volume IV, Issue 1, June 2017, ISSN 2348 – 1188), 39 – 51 pp.
- Book Review of Rajelakshmy: *A Path and Many Shadows & Twelve Stories*. Transl. R.K. Jayasree, 2016 & Bani Basu: *Gandharvi*. Transl. Jayita Sengupta, 2017, N. Delhi: Orient BlackSwan in *Jadavpur Journal of Comparative Literature*, Vol. 54, 2017-2018, 125-130 pp. ISSN 048-1143.
- Book Review of *From New Peoples to New Nations: Aspects of Métis History and Identity From the Eighteenth to the Twenty-First Centuries*. By Gerhard J. Ens and Joe Sawchuk. 2015. Toronto: University of Toronto Press. 704 pages. ISBN: 9781442649781 (hard cover), 9781442627116 (soft cover) in *Journal of Folklore Research Reviews*. September 2017. ISSN 1543-0413.

Sumit Kumar Barua

- “C. A. F. Rhys Davids er Grantha *Gotama The Man-er Anubad Manabputra Gautama ar Anuvadak Amal Barua*” in *Nalanda*. Dr. Amal Barua Commemorative Volume. Bhikkhu, Sumanapal (Ed). p. 54-60. ISSN No: 2320-7264. Kolkata: 2017.
- “Unabinsa Sataker Dwitiyardha o Bingsa Sataker Prathamardhe Buddhacharit Charchar Ekdik” in *Itihas O Sanskriti*. (Peer Reviewed Journal). Vol. III, Part 1. Das, Mayukh (Ed). p. 21-29. ISSN No: 2394-5737. Kolkata: July, 2017.
- “Haraprasad Sastri (1853-1931) Duti Oitihāsik Upanyas *Kanchanmala o Bener Meye*” in *Ūrubelâ*, International Meditation Centre, Bihar. Barua, Asish (Ed), p. 26-38. Bodh-Gaya: October-November 2017.
- “Jyotirindra Nandy Chotogolper Parisar o Rupabubhukha” in *Galpamela*. Annual Issue, Sarkar, Manas (Ed). p. 89-106, ISSN No: 2393-9311. Chandannagar: December, 2017.
- “Shyamal Gangopadhyer Dosorheen Kishor Charitra Sadhu Kalachand: Sadhutwer Nana Rang” in *Sahitya Srijani* titled *Saras Rachana Sambhar*. Bandopadhyay, Tapan. Panda, Biswajit & Mukhopadhyay, Anupam (Ed). p. 124-144. ISBN- 978-93-5288-934-1. Kolkata: January 2018.
- “Silpacharya Abanindranath Thakurer Bauddha Silpatattwa Bicar–Ekṭi Paryalochona” in *Bodhibharati*. Chowdhury, Hemendu Bikash (Ed). p. 30-35. Kolkata: 2017-18.
- “Bipradas Baruar Chotogolpo: Jiboner Vinnotaro Alochhayar Kathachitra”, in *Subhashree* (UGC Recognized Bengali Journal), 56 Issue, Sarkar, Santanu (Ed). p. 178-194. ISSN No: 2320-4141. Murshidabad: 2017-18.
- “Kalantarer Oponyasik Jagadish Gupta: Sangsaydirno Saraswat Sadhak”, in *Ujagar*, Jagadish Gupta Special Issue, 14 Year, 1st & 2nd Issue, Uttam Purokait (ed.), pp. 530-553, 2018, ISSN-0976-7398
- “Swadesher ‘Atmashakti’r Udbodhone Rabindrprayas: Sikh Itihaser Punornirman o ‘Hindutva’-er Dharona”. *Bangla Bibhagiya Patrika 2017-2018*. Samaddar, Sekhar (Ed). Department of Bengali, Jadavpur University. p. 65-88, March, 2018.

5. Collaborative Programmes:

Kunal Chattopadhyay

- MHRD-UGC ePathshala project for English – Paper on Reading ‘New’ Literatures in English. Modules contributed:
 - a) Digital Humanities and New Literature: Archiving and Digitization
 - b) English Science Fiction

Kavita Panjabi

- International Workshop, *Latin American and South Asian Cross-Cultural Transactions: From Text to Performance* – in collaboration with Cornell University, 8-11 January 2018

Sayantan Dasgupta

- With Salesian College, Siliguri, Shri Shikshayatan College, Kolkata, University of East Anglia, UK.

6. Major Achievements:

Sayantan Dasgupta

- Member, English Advisory Board, Sahitya Akademi, from 22 March, 2018.
- External Member of Board of Studies, Centre for Comparative Literature, Visva-Bharati (from August 2017).
- Elected Secretary, Comparative Literature Association of India.

Parthasarathi Bhaumik

- British Library – Chevening Fellowship, 2017-18

Epsita Halder

- Received the Charles Wallace Visiting Fellowship at the School of Oriental and African Studies, London, UK, 2017 – 2018.

Debashree Dattaray

- Shastri Indo-Canadian Institute’s Shastri Mobility Programme 2018, McGill Institute for the Study of Canada, McGill University, Montreal, Canada, March 2018.

ECONOMICS

Phone : + 91-33-2414-6328
Int. : 2457-2226
H.O.D. : Prof. Arpita Ghose
E-mail : hod@economics.jdvu.ac.in
 hod.economics@jadavpuruniversity.in

1. A. Courses Offered:

Bachelor of Arts, 3 years, 181 students

Master of Arts, 2 years, 91 students

M.Phil, 2 Years, 22 students

PhD, 13 students

1. B. Number of Faculty Members : 21

2. A. Area of Research Activities: (Broad Areas)

Prof. Ajitava Raychaudhuri

Development economics, International trade.

Prof. Joyashree Roy

Broad area of research is Resource and Environmental Economics. Focus of current research is more towards Economic and Social Dimensions of Climate Change, Water resource management and multidisciplinary research on sustainable development, social embedding of new innovation

Prof. Rajat Acharyya

International Economics, Economic Theory

Prof. Ambar Nath Ghosh

Current state of Economics, National and Global macroeconomic scenario.

Prof. Arpita Ghose

Econometrics, Macro Economics, Applied Economics, Economics of Social Sector and Regional Development.

Prof. Malabika Roy

Financial Economics, Industrial Organization, Development Economics.

Prof. Siddhartha Mitra

Behavioral Economics, Development Economics, Environmental Economics, Socioeconomics

Prof. Sushil Haldar

Economics of Social Sector, Human Vulnerability and Poverty.

Prof. Saikat Sinha Roy

Applied International Trade and Development, Open Economy Macroeconomics

Prof. Amit Kundu

Development Economics

Prof. Vivekananda Mukherjee

Applied Microeconomics, Public Economics

Prof. Tanmoyee Banerjee

Industrial Organisation , Microfinance, Micro econometrics

Prof. Swapnendu Bandyopadhyay

Behavioural Contract Theory, Industrial Organization Theory, Game Theory, Microeconomic Theory.

Dr. Bidisha Chakraborty

Growth theory, Development Economics, Socio Economics.

Dr. Jugatan Barman

Resource and Environment.

Dr. Poulomi Roy

Public Economics, Environment and Social sector .

Dr. Sanmitra Ghosh

Experimental Economics, Applied Econometrics.

Dr. Vikash Dixit

Macroeconomic Issues, Indian Economy, Social Sector and Public Finance.

Dr. Soma Mandal

Economics of Social Sector.

Dr. Simontini Das

International Economics, Applied Econometrics, Development Economics

Dr. RilinaBasu (Banerjee)

Macroeconomics, Financial Economics and Social Sector

- 2. B. Major Research Project :** (Departmental/Individual, Name of the Project/Funding Agency)

Prof. Joyashree Roy

“Assessment of Economic Cost of Impact of Heat Stress on Labour Productivity and Adaptation in Selected Building and Transport Sector”, funded by MOEFCC, Amount: 31,80,000/-INR, July 2017-December 2017

Prof. Malabika Roy

“Access to benefits from Gram Panchayat in West Bengal: The role of caste and neighborhood networks “funded by UPE-II , Rs 1,30,000/- .May 2017- January 2018 (jointly with Professor Vivekananda Mukherjee).

Prof. Arpita Ghose

“Economies of Education”, funded by UGC-UPE –II, Jadavpur University, Kolkata-700032

Prof. Sushil Haldar

“Incidence, Depth, Severity and Determinants of Multidimensional Poverty among Different Socio-Ethnic Groups: A Case Study of Selected Districts of Rural West Bengal” (jointly with Poulomi Roy) already completed during 2017-18, funded by CAS, department of Economics, Jadavpur University, Kolkata-700032

Prof. Vivekananda Mukherjee

Individual, Preparation of District Human Development Report of PurbaMedinipur District/ Government of West Bengal

Dr. Poulomi Roy

‘Impact of Government Rural Housing policy like Indira Awasojona on Indoor Air Pollution and Other Related Health Hazards’ (jointly with Professor Tanmoyee Banerjee), funded by UPE Programme, Jadavpur University, Kolkata-700032

“Incidence, Depth, Severity and Determinants of Multidimensional Poverty among Different Socio-Ethnic Groups: A Case Study of Selected Districts of Rural West Bengal” (jointly with Sushil haldar) already completed during 2017-18, funded by CAS, department of Economics, Jadavpur University, Kolkata-700032

Dr. Vikash Dixit

Role of Government in Financing Human Development: a Comparative Study of Meghalaya and West Bengal, Individual (PI: Vikas Dixit), Funded by CAS, Department of Economics, Jadavpur University.

Dr. RilinaBasu (Banerjee)

Rilina Basu (Banerjee),”Current Account Imbalances and Capital Flows: The Indian case study”, funded by CAS, department of Economics, Jadavpur University, Kolkata-700032

Dr. Simontini Das

“Ownership Pattern and Export Performance of the Firms in India”, (jointly with Professor Tanmoyee Banerjee), funded by CAS, department of Economics, Jadavpur University, Kolkata-700032

3. A. Invited Lectures Delivered/Sessions Chaired:

(Name of the Teacher, Type of Participants, Name of the Seminar / Conference etc. Place, Duration)

Prof. Joyashree Roy

- “IPCC WGIII report summary”, IPCC dissemination workshop HIMAP author meeting, Nepal, 11th April-13th April 2017 29th August -31st August 2017
- “Transitions: Challenges and Opportunities”, IPCC Ar6 Scoping Meeting, Ethiopia, 26th April-5th May 2017
- “Energy Sector in India”, Stanford Energy Forum, Breakthrough Dialogue 2017, USA, 8th May-10th May 2017 20th June-29th June 2017
- “Sustainable Development”, IPCC 1.5 Special Report author meeting, UK, 5th June-10th June 2017
- “Power Sector Transition in India: Challenges and Opportunities”, Global Carbon Project Meeting, Switzerland, 8th August-20th August 2017
- “Global stock take : National perspective”, Workshop on Global Stock Take, Japan, 1st October-3rd October 2017

Annual Report 2016-17

- “Power Sector Transition in India: Challenges and Opportunities”, IPCC 1.5 Report author meeting, Sweden, 23rd October-27th October 2017
- “Deep decarbonisation in Indian industries”, COP 23 Side event speaker, Germany, 6th November 2017-17th November 2017
- “Climate smart cities Heatstress in cities”, Cities and Climate Change Science Conference: Fostering new scientific knowledge for cities based on science, practice and policy, Canada, 5th March-11th March 2018

Prof. Arpita Ghose

- Delivered Special Lecture on “Education and Economic Growth”, in the National Seminar “Contemporary Issues of Development in India”, organized by the Department of Economics with Rural Development, Vidyasagar University on 21.9.2017
- Chaired a technical session in the 54th Annual conference of the Indian Econometric Society held at Shri Mata Vishnodevi University, Katra, Jammu, from 7th to 9th March, 2018.
- Chaired a technical session in the 38th Annual conference of the BangiyoArthanitiParishad held at Bijoy Krishna Girls College, Howrah from 17th to 18th March, 2018.
- Chaired a technical session in the 27th Annual conference of the Department of Economics, Jadavpur University held at Jadavpur University, on 21.12. 2017.
- Chaired a technical session in the National Workshop on “India’s New GDP Series and Recent Growth Performance” organized by UGC Centre for Advanced Studies, Department of Economics, Jadavpur University on 27th March, 2018.

Prof. Siddhartha Mitra

- Invited Lectures in *Workshop on Regulatory Impact Analysis* for Telecom Regulatory Authority of India (TRAI), April 16 and 17, 2018 (organized by *National Institute of Public Finance and Policy* in collaboration with *CUTS International*); Attendees: TRAI Officials and Research Staff
- Special Lecture entitled “Socio-Economic Nudges in the Alleviation of Terrorism” at the *International Conference on Globalisation and Development* at the Department of Economics and Politics, VisvaBharati, Santiniketan, February 24, 2018. Attendees: Faculty Members from various institutes and universities, undergraduate and graduate students
- Delivered the *IIndGiribalaKarmakar Memorial Lecture* at the Annual Conference of the Bengal Economic Association entitled “Contradictions and Complementarities between Neoclassical and Behavioural economics: An Exploration” on February 17, 2018. Attendees: Faculty Members from various institutes and universities, undergraduate and graduate students
- Spoke as a panelist on the topic, “Budget 2018: Impact on Economy and Quality of Life” in J.D Birla Institute, Kolkata on February 7, 2018. Attendees: Undergraduate students
- Special Lecture at Vidyasagar University, Midnapore (21st September, 2017) entitled “Measuring Inclusive Growth and the Inclusiveness of Growth”. Attendees: Faculty Members from various institutes and universities, undergraduate and graduate students

Prof. Sushil Haldar

- Key Note Address: Delivered a key note address on ‘Economics of Health and Nutrition’ at the 37th Annual Conference-BEA to be held during 15-16 Sept, 2017 at PrabhuJagatbandhu

Annual Report 2016-17

College, Andul. The title of the talk is: Demographic Dividend, Health Outcomes and Economic Growth in India: A Critical Analysis

- Delivered a lecture on ‘*Health Economics-Some Emerging Issues in Indian Context*’ as Resource Person at the 67th OP, UGC-HRDC, JU on 15.11.2017
- Delivered two lectures as Resource Person on ‘Gender and Development Issues in India’ at the RC on Women’ Studies organized by CU Women Studies Department on 9th March, 2017, as Resource Person at the 67th OP, UGC-HRDC, JU on 15.11.2017
- Delivered an invited lecture on “‘Human Deprivation in India: Where do North Eastern States stand?’” at the ICSSR Sponsored National Seminar titled as ‘Policy Issues for Economic Development With Special Reference to North-East’ organized by Govt. Degree College, Kamalpur, Tripura on 16-17 March, 2018.
- Performed as Discussant a paper titled as ‘Determinants of Stated Son Preference in the North-South divide of India’ and chaired a session on Social Sector at the Research Scholars’ Workshop organized by Economics Department, Calcutta University on 14th Feb, 2018.

Prof. Vivekananda Mukherjee

- University and College Teachers, Orientation Program, Human Resource Development Centre, Jadavpur University, Kolkata, Lecture delivered 1.30 hrs.
- Faculty, Research Scholars and Students, Ravenshaw University, Cuttack, National Seminar on “Federal Finance in India: Issues and Challenges”, Participated as Panelist, 30 minutes.
- Faculty, Research Scholars and Students, 27th Conference on Contemporary Issues in Development Economics, Jadavpur University, Kolkata, Chaired a Session, 1.30 hrs.
- Faculty, Research Scholars and Students, Conference Commemorating 200 years of David Ricardo, Centre for Advanced Studies, Jadavpur University, Kolkata, Chaired a Session, 1 hr.
- Faculty and Research Scholars, Indira Gandhi Institute of Development Research, Mumbai, 2hrs.
- Faculty and Research Scholars, Technical University, Freiberg, Germany, 2hrs.

Prof. Swapnendu Bandyopadhyay

- Delivered an Invited Lecture on ‘Behavioural Contract Theory’ at RabindraBharati University, at a workshop on Behavioural Economics on 5th January, 2018.
- Delivered a lecture on Game Theory at ViswaBharati University, at a workshop on Research Methodology on 5th January, 2018.
- Delivered the lecture ‘Fun and Games at the 65th Orientation Program Organized by the HRDC, JU.
- Delivered the lecture ‘Fun and Games at the 67th Orientation Program Organized by the HRDC, JU.
- Delivered the lecture ‘Fun and Games at the 68th Orientation Program Organized by the HRDC, JU.

Dr. Sanmitra Ghosh

- “Information Aggregation Through Voting: Experimental Evidence on Key Rationality Assumptions,” at *One Day International Workshop on Behavioral Economics* organized by Department of Economics, RabindraBharati University, Kolkata on January 5, 2018

- “Behavioral Voting Theory with Experimental Evidence,” at *Symposium on Experimental Methods for General Economists* organized by The Bhawanipur Education Society College, Kolkata on March 19, 2018.

Dr. Rilina Basu (Banerjee)

- Discussant for the paper “Reflection of recent Changes in Monetary Policy through Demonetization and Strategic Changes In Economic Policy Through GST on Indian Stock Market- A Critical Study” in Two-Day UGC-Sponsored Seminar on “ Contemporary Issues on Development Economics organized by Rabindra Bharati University held on 20-21 February 2018.
- Judged paper presentation on ‘Monetary Policy in a developing country’, in Confluence XII held on 18th September, 2017 organised by the Department of Economics, St. Xavier’s College (Autonomous), Kolkata.

Dr. Simontini Das

- Discussant for the paper “Factors Affecting Customers’ Adoption of Electric Payment: An Empirical Analysis” in Two-Day UGC-Sponsored Seminar on “ Contemporary Issues on Development Economics organized by Rabindra Bharati University held on 20-21 February 2018

3. B. Seminar/Workshop/Conference/Symposium Attended:

(Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)

Prof. Sushil Haldar

- Presented a paper titled as “Club Convergence among Major Indian States: 1982-2014: An Empirical Investigation” at the 7th WB Growth Conference, SOSU, ISI, Kolkata-26-27 Dec.2017 (jointly with Sulekha Hembram and Souparna Maji).

Prof. Vivekananda Mukherjee

- ‘Political Economy of Red Tape’, Silvaplana Workshop on Political Economy, Pontresina, Switzerland, 30 minutes.
- ‘Corruption and Distribution of Public and Private Investment across Indian States’, IEG-CSSS-Max Weber Workshop on ‘Politics, Economics and Democracy in India’, CSSS, Kolkata, 45 minutes.

Dr. Bidisha Chakraborty

- Attended Finance and Economics Conference (FINECON) 2017 at IMI Kolkata on December 28, 2017 and discussed the paper “Skill and Skill Premium” by Harshil Sharma; duration: 20 mins.

Dr. Poulomi Roy

- “Socio-Economic Determinants of Multidimensional Poverty in Rural West Bengal: A Household Level Analysis”, 54th TIES Conference, 2018, SMVDU, Jammu and Kashmir, 7-9, March, 2018

Dr. Vikash Dixit

- Attended One-Week Course on Contemporary Themes in India’s Economic Development and the Economic Survey, Delivered by Arvind Subramanian at IIT Delhi from June 11-17, 2017.

Dr. Rilina Basu (Banerjee)

- Presented ‘Macroeconomic Analysis of Demonetization: A short period Equilibrium’ at 2nd International Conference on Issues in Economic Theory and Policy organized by Economics Department, Presidency University on 14th December, 2017.

Dr. Simontini Das

- “State-Level Exports And Trade Promotion Policies: An Exploration with Indian Data”, 54th TIES Conference, 2018, SMVDU, Jammu and Kashmir, 7-9, March, 2018

3. C. Seminar/Workshop/Conference/Symposium Organized:

(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

Prof Malabika Roy

- Organizer of 27th Annual Conference on Contemporary issues in Development economics, Department of Economics, Jadavpur University, 21-22 December, 2017. (Jointly with DrPoulomi Roy)

Prof. Arpita Ghose

- Acted as a joint coordinator in the one day National Seminar on “Inclusive Growth, Measurement and Policy Choices in Social Sector”, organized by planning and Development Unit of NITI Aayog, Jadavpur University, on 26 March, 2018.

Prof. Siddhartha Mitra

- Teaching Workshop on Experimental and Behavioral Economics (Centre for Advanced Studies, Department of Economics, Jadavpur University)

Dr. Bidisha Chakraborty

- Being the convener of seminar committee, organized many weekly departmental seminars in which many professors all over the world presented their papers.

Dr. Poulomi Roy

- Organizer of 27th Annual Conference on Contemporary issues in Development economics, Department of Economics, Jadavpur University, 21-22 December, 2017

3. D. Orientation Courses/ Refresher Courses Attended:

(Name of the Teachers, Title of the Course, Duration, Place)

3. E. Orientation Courses/Refresher Courses Organized:

(Name of the Teachers, Title of the Course, if any, Duration, Place)

Dr. Sanmitra Ghosh

- (Joint) Coordinator of Short Term Course entitled “Research Methodology in Social Science” organized by UGC-HRDC, Jadavpur University, Kolkata during November 6-11, 2017.

4. A. Books/Monographs etc. Published :

(Name of the Teacher, Name of the Book, Name of the Publisher)

Prof. Joyashree Roy

- “Role of Gas-Fuelled Solutions in Support of Future Sustainable Energy World: Part II: Case Studies”, Sustainable Energy Technology and Policies: A Transformational Journey Editors: Prof. Sudipta De, Prof. Dr. Santanu Bandyopadhyay, Prof. Dr. Mohsen Assadi, Deb A Mukherjee, Springer, 2018
- “Making Indian Power Sector Low Carbon: Opportunities and Policy Challenges”, Sustainable Energy and Transportation, Editors :Anirudh Gautam, Sudipta De, Atul Dhar, Jai Gopal Gupta, Ashok Pandey, Springer, 2017

- “Governing National Actions for Global Climate Stabilisation : Examples from India”, Climate Governance In South Asia, Editors: Barua Anamika, Vishal Narain, Sumit Vij, Taylor and Francis Group, 2017
- “Our High Energy Planet”, The Rightful Place of Science: Climate Pragmatism, Editors: Lloyd J, Sarewitz D, T Nordhaus, A Trembath, Consortium for Science Policy & Outcome at Arizona State University, 2017

Prof. Arpita Ghose

- Arpita Ghose (coauthored) (2018) : “Incidence of Specific or employment Tax in Non Walrasian Fixed Price Model with Efficiency Wage” ; in Bhanumurthy , N , et al (eds) “Advances in Finance and Applied Economics” , Springer Nature, Singapore, Forthcoming.
- Arpita Ghose (coauthored) (2018) : ‘Is There Any Decline in Growth of Rice Production in Indian Agriculture in Post-liberalization Era: Evidence from Multiple Structural Breaks Analysis’, in Chakrabarti, G and Sen, C (edited) , The Globalization Conundrum—Dark Clouds behind the Silver Lining - Global Issues and Empirics, Springer Nature, Singapore, Print ISBN: 978-981-13-1726-2

Dr. Simontini Das

- “Does Trade Openness Increase Wage Elasticity of Labour Demand in Indian Manufacturing Industries?”, in Theorizing International Trade: An Indian Perspective; edited by Somesh K. Mathur, Rahul Arora and Sarbjit Singh, Palgrave Macmillan, 2017

4. B. Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

(Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume)

Prof. Joyashree Roy

- “Where is the hope? Blending modern urban lifestyle with cultural practices in India”, Current Opinion in Environmental Sustainability, Vol: 31 Page 96–103
- “Warning signs for stabilizing global CO2 emissions”, Environmental Research Letters, Vol: 12
- “Unpacking sustainabilities in diverse transition contexts: Solar photovoltaic and urban mobility experiments in India and Thailand”, Sustainability Science, Vol 12, Issue: 4
- “Determinants of the use of alternatives to arsenic-contaminated shallow groundwater: an exploratory study in rural West Bengal”, Journal of Water and Health, DOI: 10.2166/wh.2017.321

Prof. Siddhartha Mitra

- “Food grain deficiency in India: Magnitude, determinants and policy prescriptions”(co-author: Paramita Bhattacharya,) *Productivity: A Quarterly Journal of The National Productivity Council*, Volume 58, pp: 129-142, 2017-18.
- “A note on measuring inclusive growth and the inclusiveness of growth”, *South Asian Journal of Macroeconomics and Public Finance*, 6(2), pp. 1–15, 2017.

Prof. Sushil Haldar

- ‘Social Sector Development and Inclusive Growth in India: An Empirical Analysis’, (joint paper with G Bhattacharya), *Indian Journal of Regional Science*, 49(2), 2017

Annual Report 2016-17

- ‘Impact of riverbank erosion: A case study’, (joint paper with T Das and others), *Australasian Journal of Disaster and Trauma Studies*, 21(2), 2017
- “Information Technology and Profitability: Evidence from Indian Banking Sector” (joint paper with S Dattagupta and A Raychaudhuri), accepted for publication in the *International Journal of Emerging Markets*, Emerald
- ‘Socio-Economic Determinants of Multidimensional Poverty in Rural West Bengal: A Household Level Analysis’, (joint paper with Poulomi Roy and Soma Ray), accepted for publication in the *Journal of Quantitative Economics*, Springer

Prof. Vivekananda Mukherjee

- ‘On Autonomous Devolution from the Union Government, Provision of Local Public Goods and Welfare of the States’, (with MoumitaChel), *Indian Economic Review*, 51 (1-2), 21-41, 2017.
- ‘Threshold Effect of Bank-specific Determinants of Non-performing Assets: An Application to Indian Banking’, (with SamareshBardhan and Rajesh Sharma), *Journal of Emerging Market Finance*, forthcoming.
- ‘UK-India Economic Relation in Post-BREXIT Era’, (with RajatAcharyya), *Trade and Development Review*, 10 (1-2), 62-73, 2017.
- ‘On General and Specific Transfers for Child Support in Divorce’, (with TilakSanyal), *Journal of Quantitative Economics*, <https://doi.org/10.1007/s40953-018-0119-6>.

Prof. Swapnendu Bandyopadhyay

- Other Regarding Principal and Moral Hazard: The Single Agent Case (with Mainak Sarkar). *International Journal of Economic Theory* (Blackwell), September 2017, Vol-13, Issue-3, Pages: 313-326.

Dr. Bidisha Chakraborty

- Low level equilibrium trap, unemployment, efficiency of education system, child labour and human capital formation(with Kamalika Chakraborty), *Journal of Economics* (2018)125:69-95
- A Study on Happiness and Related Factors among Indian College Students (with SoupornoMaji and et. al), *Journal of Quantitative Economics*, DOI: <https://doi.org/10.1007/s40953-018-0125-8>; Springer India

Dr. Poulomi Roy

- ‘Socio-Economic Determinants of Multidimensional Poverty in Rural West Bengal: A Household Level Analysis’, (joint paper with Sushil Halder and Soma Ray), accepted for publication in the *Journal of Quantitative Economics*, Springer

Dr. Vikash Dixit

- “Causality between Economic Openness, Income Inequality and Welfare Spending in India”, *Asia Pacific Social Science Review*, June 2017, 17(1): 121-127
- “Financial Inclusion, Accessible India and the Disability”, *International Research Journal of Persons with Special Needs and Rehab Management*, December 2017, 3: 18-24

Dr. Rilina Basu (Banerjee)

- Financial Structure and Macroeconomic Performance in Asian Countries: A Principal Component Analysis jointly with Ranjanendra Narayan Nag in *Asian journal of Research in Business Economics and Management*, May 2018, Volume 8, Issue 5, pg – 1-14.

Annual Report 2016-17

- Macroeconomics of Demonetisation: A short period equilibrium”, jointly with Moumita Basu and Ranjanendra Narayan Nag in Trade and Development Review, forthcoming.

5. Collaborative Programs:

6. Major Achievements:

Prof. Ajitava Raychaudhuri

- Prof. Ajitava Raychaudhuri was awarded “ SikshaRatna “ by the West Bengal Government

Prof. Joyashree Roy

- Bangabandhu Chair Professor at Asian Institute of Technology, Thailand
- TEDx Jadavpur University : Breaking the barriers (February 2018)
- Selection as expert for IPCC Assessment Report 6 as Chapter Coordinating Lead Author, 2018- 2022

Prof. Arpita Ghose

- Nominated as a member of Executive Council of the Indian Econometric Society, for the session 2018-19.

Prof. Sushil Haldar

- Manas Chatterjee best paper Award 2017 (Joint with G Bhattacharya): ‘Social Sector Development and Inclusive Growth in India: An Empirical Analysis’, Indian Journal of Regional Science, 49(2), 2017

Prof. Vivekananda Mukherjee

- Visiting Fellowship: Technical University, Freiberg, Germany
- Visiting Fellowship: Indira Gandhi Institute of Development Research, Mumbai

Section III

Annexures (Administrative)

- **Officers of the University:** (as on 31.10.2018).
- **University Bodies :**
(Court / Council / EC / Finance Committee, including list of members).
- **Teachers :**
Existing Faculty Members (Arts, Engg. and Tech., Science & ISLM as on 31.3.18.)
- **Research Scholars Awarded :**
a) Ph.D. / D.Phil. / D.Litt. Complete title of the thesis to be mentioned

EDUCATION

Int. : 2457-2882
H.O.D. : Prof. Bishnupada Nanda
E-mail : education.ju@gmail.com
hod.education@jadavpuruniversity.in

1. Courses Offered:

Name	Duration	Intake
B.Ed.	2 years (4 semesters)	100 + 100 = 200
M.A. in Education	2 years (4 semesters)	50 + 52 = 102
M.Phil in Education	2 years (4 semesters)	15 + 17 = 32
Ph.D. (by coursework)	-	15

2. Research Areas:

- Mindfulness in Education
- Special and Inclusive Education
- Rehabilitation Psychology and Psychological Counselling
- Cognitive Psychology
- Behaviour Therapy
- Social Education
- Science and Mathematics Education

3. International Seminars Organised by the Department:

- 2 days International Seminar in collaboration with Naihati Women's College on "**Cyber Crime: Its Social and Economic Impact**", on 26th and 27th December, 2016, at Naihati, North 24 Parganas.
- 7 days International Seminar cum Workshop in collaboration with Arogya Sandhan Charitable Trust, on "**Parental Involvement in the Education of Children with Special Needs**", from 17th to 23rd January, 2017, at Jadavpur University campus.
- 2-days International Seminar, jointly with Byanjanbarna Foundation, Kolkata, on "**Higher Education through Mother-Tongue**", on 7th & 8th March, 2017, at Jadavpur University campus.

3. National Seminar Organised by the Department:

- 2 days National Seminar, in collaboration with Indian Institute of Mother & Child Welfare, on "**Social Inclusion: Present Day Context**", 26th and 27th December, 2016, at Nazrul Bhavan, Jadavpur University

4. Workshops Organised by the Department:

- 7 days International Workshop, jointly with Byanjanbarna Foundation, Kolkata, in collaboration with Mahadevananda Mahavidyalaya, Barrackpore, on "**Shampratik Rabindra Samiksha**", on 26th August to 1st September, 2016.
- 7 days International Workshop, jointly with Byanjanbarna Foundation, Kolkata, in on "**Methodology of Teaching Bengali Literature at College & University Levels**",

from 20th to 26th January, 2017.

5. Short Term Courses Organised by the Department:

- UGC-HRDC Short Term Course on **Teacher Educators**
Date: 3rd to 9th November, 2016
Coordinator: Dr. Bishnupada Nanda
- UGC-HRDC Short Term Course on **Basic Skills of Counselling**
Date: 10th to 16th January, 2017
Coordinator: Dr. Mukti Pada Sinha

6. Publications:

- Publication of Book
Title: **Bidbidha Prasanga: Bishay – Ajana Manush Vivekananda**
ISBN: 978-93-83660-31-5
Date of Publication: 12th January, 2017

7. Publication of Journal:

- RENOVA, Volume -3, ISSN: 2454-1710

8. Special Lectures:

- Special Lecture organised on 11th November, 2016, observing National Education Day on the topic of Maulana Abul Kalam Azad. Special Lecture delivered by Sri Swapan Mukhopadhyay.
- Discussion session organised on 12th January, 2017, commemorating National Youth Day.

Prof. Bishnupada Nanda

Journals

- Attitude towards AIDS of College going students in respect to Certain Demographic Features – Bishnupada Nanda (with Amit K. Maity). Indian Journal of Educational Research (ISSN 2277-3819), V, 1-11, 2016
- Knowledge of Childcare among neo-literate and illiterate Adult Women Learners of Burdwan District, West Bengal – Bishnupada Nanda (with Ananya Mondal). Indian Journal of Educational Research (ISSN 2277-3819), V, 146-155, 2016
- Just for them to Understand Better: Empowering the learning Disabled – Dr. Bishnupada Nanda. The Scholar (ISSN 2454-521X), I(1), 29-31, 2016
- Depression Predicts Smoking among Adolescent Girls – Dr. Bishnupada Nanda (with Arpita Nathak). The Scholar, (ISSN 2454-521X), I(1), 40-48, 2016
- Knowledge and Attitude of Trainee Teachers and In-Service teachers towards Students who are Gay, Lesbian, Bisexual and Transgendered – Dr. Bishnupada Nanda (with Prosenjit Roy). The Scholar (ISSN 2454-521X), I(1), 172-122, 2016
- Revisiting Higher Education Research – Dr. Bishnupada Nanda. Anwesa: A Journal of Education (ISSN 0973-5895), II, 67-70, 2016
- Parents Attitude towards Inclusion of Children with Special Needs: A Survey – Dr. Bishnupada Nanda (with Ripa Mazumder). Anwesa: A Journal of Education (ISSN 0973-

Annual Report 2016-17

5895), II, 83-91, 2016

- Teachers' Knowledge of Inclusive Education in Mainstream Secondary Schools – Dr. Bishnupada Nanda (with Ananya Mondal). *Evolving Horizons* (ISSN 2319-6521), 5, 82-86, 2016
- Parental Involvement in the Education of Children with Special Needs – Dr. Bishnupada Nanda (with Sunita Mondal), *RENOVA* (ISSN 2454-1710), 3(1), 2017
- A Study on the Behavioural Problems of Children with Intellectual Impairment – Dr. Bishnupada Nanda (with Aishanya Tripathi), *RENOVA* (ISSN 2454-1710), 3(1), 2017

Edited Volumes

- *Bibidha Prasanga: Bishay – Ajana Manush Vivekananda* (ISBN: 978-93-83660-31-5), January, 2017. Published by: Registrar, Jadavpur University from the Department of Education, Jadavpur University
- *RENOVA* (ISSN 2454-1710), March, 2017, Volume – 3(1). Published by: Registrar, Jadavpur University, from the Department of Education, Jadavpur University

Chapters Contributed:

- Purnatar Sandhane Tribeni Sangame, in *Bibidha Prasanga: Bishay – Ajana Manush Vivekananda* (ISBN: 978-93-83660-31-5), January, 2017. Published by: Registrar, Jadavpur University from the Department of Education, Jadavpur University
- Higher Education Scenario of Scheduled Casts and Scheduled Tribes in India. Jointly with Sunita Mondal, in *Higher Education* (ISBN 978-93-85876-97-4), APH Publishing Corporation, New Delhi
- *Research Trends in Open and Distance Education – A Review in Distance Education in India* (ISBN 978-93-85503-73-3) New Delhi Publishers, New Delhi

Special Lectures / Seminar Lectures / Workshops

- July 16, 2016. Delivered a lecture on 'Sociology of Education' for P.G. Students, Seuri College, Seuri, Birbhum
- August 26, 2016: Delivered key-note speech on 'Sampratik Rabindracharcha' at Barrackpore Mahadevananda College in the International Workshop held jointly by Mahadevananda College and the Department of Education, Jadavpur University
- September 02, 2016: Delivered a speech on 'Women's Education and Empowerment' at Bidhar Ambedkar College.
- September 08, 2016: Delivered a speech in Orientation Programme, UGC Academic Staff College, Burdwan University, on 'Methodology of Teaching & Joyful Learning'
- September 14, 2016: Delivered a speech on 'Inclusive Education' in a State Level Seminar on Inclusive Education, at Bamapukuria Humayum Kabir College, 24 Parganas
- October 24, 2016: Delivered a speech on 'Experiential Learning in Pre-School' in CRE Programme, at MRIH, Kolkata
- November 07, 2016: Delivered a speech on 'Assessment and Evaluation in Higher Education: Emerging Trends' in UGC sponsored National Seminar at Fakir Chand College, Diamond Harbour, jointly with Department of Education, Jadavpur University
- November 12, 2016: Delivered a speech on 'Inclusive Education' in National Seminar at Vidyasagar Teachers' Training College, Midnapur

Annual Report 2016-17

- November 13, 2016: Delivered a speech on 'Revisiting Inclusion in Education' at NSOU, Kolkata
- November 16, 2016: Delivered a speech on "Inclusive Education' at RBU, Kolkata
- December 09, 2016: Delivered a speech on 'Parental Involvement' in a Parents Meet, organised by Sarva Siksha Mission at North 34 Pgs
- December 10, 2017: Played role in 'Evaluation' at Orientation Programme at UGC-Academic Staff College, Jadavpur University, Salt Lake Campus
- December 16-17, 2016: Delivered two speeches on 'Inclusive Education' at Sevayatan College, Jhargram, for the College and University Education Professors, organised by NSOU, Kolkata
- December 23, 2016: Attended a meeting of Curriculum Committee at Nivedita Bhaban (WBSE)
- December 27, 2016: Delivered a speech in the International Seminar on 'Cyber Crime' at Naihati organised by Naihati Women in Need
- January 06, 2017: 'Inclusive Education' at Blind Boys' Academy, Narendrapur Ramkrishna Mission for the College and University Education Professor organised by NSOU, Kolkata
- January 12, 2017: Published the edited volume on 'Ajana Manush Vivekananda (ISBN: 978-93-83660-31-5) and delivered speech in the discussion session organised for commemorating Swami Vivekananda's birth anniversary
- January 16, 2017: Delivered a speech in National Seminar as a Resource Speaker at NSOU, Salt Lake Campus, on the topic 'Research Trends in Special and Inclusive Education'
- January 17-23, 2017: Organised seven day International Workshop – cum – Seminar on 'Parental Involvement in the Education of Children with Special Needs' organised jointly by the Department of Education, Jadavpur University and Arogya Sandhan Charitable Trust
- January 26, 2017: Delivered a speech on 'Reading and Writing Problems of Learning Disabled Children in Bengali and its Remedial Measures' in the 7 days International Workshop on 'Teaching Language' organised jointly by the Department of Education, Jadavpur University and Byanjanbarna Foundation, Kolkata
- January 28-29, 2016: Lectured in the KRP Training of RMSA, Government of West Bengal, organised by SCERT, Kolkata
- January 30-31, 2017: Organised National Seminar on 'Social Inclusion in the Present Day Context, jointly with Department of Education, Jadavpur University and Indian Institute of Mother & Child Welfare, Kolkata
- February 8 – 10, 2017: Delivered speech in the KRP training of RMSA, Govt. of West Bengal, organised by SCERT, Kolkata
- February 17-18, 2017: Delivered two speeches on 'Inclusive Education Revisited' at Siliguri North Bengal Handicapped Society
- February 22, 2017: Inaugurated and lectured in the CRE (RCI, Govt. of West Bengal) programme organised by NIOH, Kolkata 160

Annual Report 2016-17

- March 1, 2017: Played role as an evaluator in the Orientation Programme at UGC-Academic Staff College, Salt Lake Campus, Jadavpur University
- March 7, 2017: Delivered a speech in the Seminar 'Higher Education through Mother Tongue: Problems & Prospects' organised jointly by the Department of Education, Jadavpur University and Byanjanbarna Foundation, Kolkata

Antara Mitra : Asst. Professor (Cont.)

1. Participated in the seven days International Level Workshop on SAMPRATIK RABINDRA SAMIKSHA from 26th August to 1st September, 2016 organised by Department of Education, Jadavpur University and Byanjanbarna Foundation, Kolkata in collaboration with Mahadevananda Mahavidyalaya, North 24pgs.
2. Participated in the UGC Sponsored two days, International Conference on "Higher Education, Univesitys and Excellence : The Bengal Narrative" organized by the Centre for Studies and Rehabilitation of Differently Abled Persons and WBCUPA, Jadavpur University, Kolkata on 20.12.2016 and 21. 12.2016.
3. Participated in UGC sponsored 7 days International Level Workshop on 'Methodology of Teaching Bengali Literature at College / University Level' from 20th to 26th January, 2047. Conducted by Department of Education, Jadavpur University, jointly with Byanjanbarna Foundation, Kolkata.
4. Presented paper entitled " Role of Mother Tongue Education in effective learning of any Foreign Language" in UGC sponsored two Days International Seminar on 'Higher Education through Mother Tongue : Problems & Prospects' on 7th & 8th March, 2017 conducted by Department of Education, Jadavpur University jointly with Byanjanbarna Foundation, Kolkata.

ENGLISH

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1. A. Courses Offered:

Name of the course	Duration of the Course	Current intake
• BA Honours	3 years, 6 semesters	67 current

- MA 2 years, 4 semesters 66 current
- M Phil 2 years 17 per year
- PhDs registered 112 approx.
- PhD by coursework (new UGC regulations) 52 current

1. **B. Number of Faculty Members:** Full strength 25. Presently 19 + 2 emeritus professors

2. **A. Areas of Research Activities:**

The Department of English is a Centre of Advanced Study (CAS) under the UGC's SAP Programme, the only CAS in English in India. **It was recognized by the UGC for the status of Departmental Special Assistance (DSA) in 1991 and became a Centre of Advanced Study in 2004. The existence of the Centre was a major factor in the Department gaining another UGC award (ASIHSS, 2006-11) for strengthening infrastructure and research facilities. The Centre's programme of activities is mainly directed at research, but its influence is felt through the Department at all levels, in the University, the region and the country. It received funds from the UGC for equipment and infrastructure, library acquisitions, conferences, visiting faculty, and travel. It engages in international collaboration for the purposes of research. It is expected to provide leadership in developing new areas of Indian scholarship and in fostering academic exchange.** The CAS status was renewed in 2010, the second phase extending from 2010 to 2015. **The specified Thrust Area for CAS Programme Phase II (2010-15) was Cultural Transactions.**

On 1 June 2015, at the Interface meeting for renewal of the CAS Programme, the UGC recommended upgrading it to CAS Phase III for five years, with funding of Rs 1.28 crore plus emoluments for two project fellows. **The overall thrust area would remain Cultural Transactions, with the following special research interests:**

1. Translation
2. Shakespeare in Bengal
3. Incipient Modernities — India and the World
4. Archiving Local Knowledge Systems
5. World Literature to Indian Film

CAS Phase III began from the 2016-17 financial year for the next five years.

The Centre of Advanced Study has also been recognized by the Research Councils UK (RCUK) in their report, Arts and Humanities Research Landscape in India, as a Centre of Excellence in Research in the Humanities. See: <http://www.rcuk.ac.uk/documents/india/Additionalcentres.pdf> under <http://www.rcuk.ac.uk/international/Offices/OfficeinIndia/landscape/Pages/Arts.aspx>

Brief account of CAS Phase I and CAS Phase II

The broad field identified for research under Phase I (2004-2009) was *Textuality and Culture* **with the following "thrust areas":**

- Renaissance Studies
- Nineteenth Century Studies

- Twentieth Century Studies
- Translation Studies

The following areas had additionally been identified as important fields of study:

- Literature and the Other Arts
- History of the Book
- Theatre Studies
- Literature and Psychoanalysis
- Popular Culture
- Medieval English and European Literature

The major objectives set out under the broad field of **Textuality and Culture** were the study of the cultural history of texts and the social, physical and material conditions of literary production, as well as the tasks of documentation, resource collection and archive building in all the specified thrust areas, integrating them into a common programme. This would include extension into wider cultural fields and emerging areas such as: study of non-canonical texts, popular literature and paraliterature, translation studies and cultural history, history of book production, publishing and circulation, study of literature in relation to other arts, textual studies and editorial method, inter-departmental and inter-faculty links in film studies, electronic media, women's studies, cultural history of texts and study of material culture, the social, physical and material conditions of literary production, documentation, resource collection and archive-building.

In Phase II (2010-2015), the specific thrust area was identified as Cultural Transactions. It was understood that the Centre would continue to focus on its areas of strength, but bring them into the frame of the encounters and transactions between cultures that India's history reflects, resulting from **travel, contact, colonization, migration, scientific and technological advances and exchanges**, leading to **new literary expressions**.

CAS PHASE III THRUST AREA

TEXTUALITY AND CULTURE II: CULTURAL TRANSACTIONS

BROAD FIELD: Textuality and Culture. This includes the study of the cultural history of texts and the social, physical and material conditions of literary production, as well as the tasks of documentation, resource collection and archive building in all the specified thrust areas, integrating them into a common programme. This would include extension into interdisciplinary and emerging areas such as popular literature and paraliterature, translation studies and cultural history, history of book production, publishing and circulation, study of literature in relation to other arts, textual studies, editorial method, digital humanities, cultural history of texts, and study of material culture and the circulation of commodities.

THRUST AREA: Cultural Transactions.

The focus of the CAS III is the following areas:

1. Translation
2. Shakespeare in Bengal
3. Incipient Modernities — India and the World
4. Archiving Local Knowledge Systems
5. World Literature to Indian Film

These would extend the earlier focus on **transactions between cultures**, resulting from **travel, contact, colonization, migration, scientific and technological advances and exchanges**, leading to **new literary expressions**.

The study of English literature in India may itself be regarded as one of the products of these **cultural transactions** that have taken place in our history. It is important for English departments in India to focus attention on the nature of these cultural transactions, and to understand the far-reaching changes brought about by them, not simply in the context of colonization, but over a very long period of cultural contact across the world, and through migration and travel. The cultural production of texts and their distribution and influence depends on a host of factors including technological and social changes brought about by contact with other cultures. Moreover, just as commodities and human beings travel, so do ideas.

Objectives:

1. To create a better understanding of intercultural exchanges in the intellectual and material realms, to explore interfaces between literature, arts and sciences, and to open new horizons for the discipline of English studies in India.
2. To extend the study of print culture and textuality pioneered by the Department, create digital and print resources for research, train personnel in archiving and materials collection, and develop web-based programmes.
3. To become a nodal centre for research in the Thrust Area: **CULTURAL TRANSACTIONS**.

OTHER CENTRES IN THE DEPARTMENT:

The Department hosts the **Jadavpur University Society for American Studies**. With support from the Italian Embassy Cultural Centre, New Delhi, and the UGC-ASIHSS Programme, a **Renaissance Resource Centre** was established in the Department in 2009. Departmental faculty created in 2010 a **Centre for Victorian Studies** which has established formal links with the University of Leicester's Victorian Studies Centre. The Department also houses the **Rabindranath Studies Centre**, established under the UGC Epoch-Making Thinkers Scheme in 2011, and temporarily serves as the office for the **Tagore Cultural Complex** to be constructed with funding from the Ministry of Culture, Government of India, which released the first instalment of Rs 4.5 crores in 2014-15, matched by Rs 1 crore from the Government of West Bengal.

2. B. Major Research Projects: (Departmental)

2. PROJECTS

A. SHAKESPEARE IN BENGAL (UGC CAS ENGLISH)

The "Shakespeare in Bengal" project was started in 2011 under the CAS (Phase II) programme at the Department of English, Jadavpur University to document the various

aspects of Shakespeare's presence in the geographical sector of greater Bengal and especially within the Bengali-speaking culture. At present, the members of the project are Prof. Nilanjana Gupta (CAS Phase III Co-ordinator), Prof. Paromita Chakravarti (Co-ordinator of the project), Dr. Abhishek Sarkar (Joint Co-ordinator of the project), Prof. Sonia Sahoo, Ms. Shalmi Barman (CAS Fellow) and Ms. Shrutakirti Dutta (CAS Fellow). The project seeks to archive and assess material that may be placed under three distinct but interrelated categories of Shakespearean reception in Bengal (understood in the broadest sense), namely, (1) Performance of Shakespeare; (2) Translations and Adaptations of Shakespeare; and, (3) Shakespeare Pedagogy. The project has launched and maintained an official website with a view to continuously posting updates about its progress and publishing its findings in the public domain.

In the first year of CAS Phase III, the project has archived material in all the three recognized fields of its purview, a brief summary of which is provided as follows.

- (1) Performance of Shakespeare – Members of the project have witnessed and taken extensive notes on Shakespearean productions including *Sauda* (a contemporized Bengali adaptation of *The Merchant of Venice*), *Othhoi* (a contemporized Bengali adaptation of *Othello*), *Macbeth Mirror* (a Bengali reworking of *Macbeth*), and *I am Hamlet* (a Bengali adaptation of British playwright Richard James's play exploring the Shakespearean character). The project has also taken long interviews of theatre personalities including Kanchan Amin (wrote, directed and acted in the play *Sauda*), Vikram Iyengar (dancer and actor who directed the dance drama *Crossings*, which explores the psyche of Lady Macbeth), Jayant Kripalani (veteran stage and screen actor who has witnessed and taken part in several Shakespearean productions over the last five decades), Sumit Roy and Katy Lai Roy (founder members of the The Red Curtain, the oldest English theatre troupe in Kolkata, which has been producing Shakespearean and other plays since the 1970s), Debashish Raychaudhuri (academic and musician who has composed music for Shakespearean productions), Biplab Dasgupta (actor and creator of the audio play *William Tagore Meet*), and Subhra Sourav Das (young actor who was part of the Bengali stage production of *Macbeth* and two Bengali film adaptations of Shakespeare, *Hemanta* and *Zulfiqar*). The project has taken a long and exhaustive interview of award-winning filmmaker Srijit Mukherji on his recent Bengali film *Zulfiqar*, which is a contemporized and indigenized re-interpretation of *Julius Caesar* and *Antony and Cleopatra*. This interview has been unprecedented in terms of its analytical approach to the film and will prove to be a major resource for students and researchers. The project is scheduled to interview in the near future theatre personalities including Rudra Prasad Sengupta (one of the doyens of the Bengali stage and former academic) and Chandan Sen (directed and acted in a Bengali production of *Julius Caesar*). Recently, a Bengali Diaspora section has been added to the project website, extending the scope of our archival efforts.
- (2) Translations and Adaptations of Shakespeare – The project has taken into account several stage and film adaptations of Shakespeare as registered under the previous rubric. It has sourced a catalogue of the Indian adaptations of Shakespeare from the National Library of India. Besides, in its attempt to track the market of Shakespeare for non-specialist and recreational reading in Bengali, the project has purchased from second-hand bookshops around the city paraphrases and verse translations and also abridged and children's versions of Shakespeare in Bengali produced across a century.

The books include translations of Shakespeare plays by Debendranath Basu (published 1919) and re-tellings of Shakespeare for a young audience by Subodh Chakraborty (published 1994). A detailed annotated catalogue of these findings has been produced.

- (3) Shakespeare Pedagogy – The project has sourced, scanned and uploaded the running notes of Prof. Sukanta Chaudhuri, Emeritus Professor, Department of English, from his student days, as well as the class notes of his late mother, Prof. Sujata Chaudhuri. This will be an invaluable historical record of classroom practices in the city from half a century ago and in the pre-Independence period. The project has interviewed Prof. Sajni Kripalani Mukherjee, formerly of the Department of English, Jadavpur University, about her encounters with Shakespeare in the classrooms of Kolkata and Oxford and also about her general impressions about Shakespeare's presence in the cultural scenario of Bengal. The project has interviewed Debashish Raychaudhuri, Associate Professor of English at Anandamohan College, Kolkata, about his experience of studying and teaching Shakespeare in the classrooms of Kolkata, and Swati Ganguly, faculty member of Viswa-Bharati's Department of English, about her experience teaching Shakespeare in Shantiniketan and staging student productions based on his plays. The project has also painstakingly procured bilingual (English-Bengali) made-easies, guidebooks and university questionnaires on Shakespeare, which will help record and assess a non-elitist but predominant mode of Shakespeare reception among the student population of Bengal.

Apart from this, the project has launched a Facebook page to convey its findings in an accessible way to a diverse and non-specialist audience. The project at present uses a free Wordpress website that has only rudimentary features and comes with several handicaps. The project therefore plans to acquire an official domain space and move over to a full-fledged website with state-of-the-art features within a few months. At the International Workshop on 'Shakespeare Archiving, Digital Archiving and Textual Computing' organized by the School of Cultural Texts and Records and the Department of English, Jadavpur University on 29 November 2016, Prof. Paromita Chakravarti and Dr. Abhishek Sarkar jointly made a presentation on the project, showcasing its present achievements and future possibilities. The presentation was made in the presence of delegates from the Folger Shakespeare Library (Washington, D.C.), the largest archive of Shakespeare in the world. Recently, the project has entered into the final round of discussions with the Folger Shakespeare Library about sharing its material on their official website.

The project has also proposed to organize under the aegis of CAS (Phase III) an international conference early next year, which will look at the reception of Shakespeare in the broad cultural scenario of Bengal with a special focus on actors and/or audiences in geographically peripheral and diasporic communities. Subject to the availability of funds, the proceedings of the conference will be brought out as a book from a reputed international publishing house. This will be a pioneering contribution to the field and also of a lasting academic significance.

C. OTHER PROJECTS:

CAS English was a partner in the University's EU Project on *Strengthening Undergraduate Education in Indian Universities* with University of Hyderabad, Ambedkar University, Shiv Nadar University, King's College London and University of Bologna, Italy. This project concludes in 2017.

2. C. Individual Projects

Prof. Ananda Lal

1. Project Head, Tagore Cultural Complex at Jadavpur University (Union Ministry of Culture and matching grant from Government of West Bengal)

Prof. Amlan Das Gupta

1. *Documentation of Cultural Texts*, supported by the University with Potential for Excellence Scheme, Phase-II, University Grants Commission.
2. *Digitisation of South Asian Cultural Resources*, in association with the British Library, UK and supported by Sir Ratan Tata Trust, Mumbai. (Concluded 2016)
3. *Reorganization, Digitization and Cataloguing of the Maulana Abul Kalam Azad Collection of Paper Records*, with the Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata.
4. *Digitisation of the Paper Records* at the Victoria Memorial Hall, Kolkata.
5. *Famine and Dearth in India and Britain, 1550-1800*: with Exeter University supported by AHRC, UK. (Concluded 2016)

Prof. Nilanjana Gupta

1. Madrasa Education in India Rs 14 lakhs UPE II ongoing
2. Acropolis: A Study of the concept of the Global City UPE II Rs 10 lakhs Ongoing
3. Youth Reporters, funded by UNICEF Rs 24lakhs, ongoing

Prof. Abhijit Gupta

1. Co-investigator, 'Two Centuries of Indian Print', with the British Library UK, funded by the AHRC, 2016-18.
2. PI.: 'Physical Cultures of Bengal', UPE-II Programme, UGC, ongoing

Prof. Paromita Chakravarti

1. Coordinator, Shakespeare in Bengal project under CAS, Dept of English.
2. "Mobilising Single Women in West Bengal" (Second Phase)—funded by AJWS and hosted by Sappho for Equality, September 2016 to August 2017.

Dr. Nilanjana Deb

1. Project Investigator, EAP 922: DIGITIZATION AND CONSERVATION OF ENDANGERED PAPER RECORDS OF THE BRITISH INDIAN ASSOCIATION in collaboration with the British Library and funded by the Endangered Archives Programme, from September 1, 2016 (ongoing). The project involves intensive onsite sorting, as well as digitizing and listing of material at the British India Association. The value of the project is approximately 34 lakhs, and is being conducted under the aegis of the School of Cultural Texts and Records.

Sri Manojit Mandal

1. Projects funded by UGC UPEII , amount generated: 30 lacs, amount spent till March 2017, 8 lacs(approx).
2. Projects funded by JU amount spent 3 lacs(approx)

Dr. Abhishek Sarkar

1. Joint coordinator CAS Project entitled 'Shakespeare in Bengal'.

3. A. Invited Lectures Delivered/ Sessions Chaired

Prof. Ananda Lal

1. "Female Impersonation in Theatre". Special lecture for Homage to Androgyny in Performing Arts, Future Media School, Kolkata, April 2016.
2. "Conflict in Drama". Special lecture for the Management Development Programme on Conflict-Resolution, Negotiation and Communication, IIM Kolkata, Joka, September 2016.
3. "Indigenous Theatre Architecture: Our Neglected Heritage". Third lecture in the Heritage series, Natya Shodh Sansthan, Kolkata, October 2016.
4. "The Classic Indian 'Stepmotherly' Treatment: Literature and Arts Education in Future". Invited lecture, Global Education Summit, Presidency University, Kolkata, January 2017. Uploaded by the Presidency University Bicentenary Celebrations at <<https://www.youtube.com/watch?v=z00rzi9qjjA>>

Prof. Nilanjana Gupta

1. Invited for Special Lecture Session on "City and Identity in the 21st Century" Kidderpore College, Kolkata January 2017
2. Invited Speaker at Colloquium on "The Flux in India's Higher Education System" organized by Indian Association of Women's Studies, Chennai, January 2017
3. Keynote Speaker at Seminar on "Child Lore & Identity" at Mizoram University (with Sahitya Akademi) November 2016
4. Talk on "Value of Education" at Departments of English, Arabic & Comparative Literature, University of Calicut, Kerala

Prof. Paromita Chakravarti

1. Special lecture on girls' education for 8th March (2017), International Women's Day celebrations organized by the Indian Statistical Institute.
2. Delivered talk on sexual harassment in the workplace at the Gender sensitization programme organized by the National University of Juridical Sciences for IRCTS employees on 3rd March, 2017.
3. Delivered talk on "Singleness as queer practice" at the Sexuality Academy (22-26th March 2017—a residential workshop) organized by Sappho for Equality in Kolkata on 23rd March, 2017.
4. Chaired session on 19th Jan 2017 in "Nexus: Anglo Indian Literature and Anglo Indian life", a workshop organized by the School of Women's Studies, JU, 18-19th January, 2017, in JU, Kolkata.
5. Chaired a plenary session in the conference on "Imaging the differently abled: Reading and Translating the Indian short story", organized by the Dept of English, CAS, JU, 18-20th January, 2017.
6. Chaired a session at the students' conference on "Cross Cultural Encounters and Negotiations: Place, Space, Identity", organized by the Dept of English, CAS, JU, 16-17th February, 2017

Prof. Nandini Saha

1. Delivered special lectures on invitation in Friedrich-Schiller University, Institute for English and American Studies, on 28 April 2016 on Indian English Literature.
2. Keynote address in International conference titled “Disrespected Neighbo(u)rs: Cultural Stereotypes in Literature and Film”, held at the Friedrich-Schiller University, Jena Germany, between 21 and 23 April 2016.

Dr. Nilanjana Deb

1. Invited Lecture on 18th January 2017 on Native American Literature at the USIS, Kolkata

Smt Sonia Sahoo

1. Invited UGC lecture at Deshbandhu College for Women, Kolkata, September 2016 on 17th century Baroque Art

Dr. Saswati Halder

1. Delivered a special lecture on ‘Victorian Poetry’ to the learners of Netaji Subhas Open University, January 2017
2. Chaired a session in Prof. Debabrata Mukherjee Memorial Annual Students’ Seminar entitled ‘Money Matters: Currencies in Literature,’ in March 2017

Sri Ramit Samaddar

1. Nine lectures on Victorian thought and George Gissing to PG students of Lady Brabourne College, Kolkata, April 2016

Dr. Abhishek Sarkar

1. Chaired a session at the National Students’ Conference organized by the Department of English, Jadavpur University, 16-17 February 2017.

Sri Kaustav Bakshi

1. Invited to deliver a lecture on the panel, ‘Sex, Terror and the Nation State’ at the Asian and Asian American Studies Institute, **University of Connecticut**, Storrs, the United States of America on 27 March 2017. URL to the event page: <http://events.uconn.edu/event/53379/2017-03-27>

3. B. Seminar/ Workshop/ Conference/ Symposium Attended:

Prof. Ananda Lal

1. “What Shakes Us and What Doesn’t: Stage Productions during the Celebrations, 2014-16”. Seminar on *Shakespeare and India*. Sahitya Akademi, Kolkata, January 2017.
2. “The Unity of the Arts”. International Symposium on *Connecting Histories*. CIMA Kolkata Art Festival, Kolkata, February 2017.
3. “African American De-Integration and Angry Young Men: A Look at Two Recent Rap Masterpieces”. Jadavpur University Society for American Studies 20th Anniversary Seminar on ‘Other’-ness and Other Worlds: The Clash of Inclusiveness and Exclusivity in American Literature and Art. Jadavpur University, Kolkata, February 2017.

Prof. Nilanjana Gupta

1. “City and Identity in the 21st Century” Kidderpore College, Kolkata January 2017
2. Colloquium on “The Flux in India’s Higher Education System” organized by Indian

Association of Women's Studies, Chennai, January 2017

3. Seminar on "Child Lore & Identity" at Mizoram University (with Sahitya Akademi) November 2016

Prof. Prodosh Bhattacharya

1. UGC-Sponsored One-Day National-level Seminar on "Literature, Medicine and Psychoanalysis in Colonial and Postcolonial India" organized by Departments of English and Bengali, Chandrakona Vidyasagar Mahavidyalay, Paschim Medinipur in collaboration with Dept. of English, Sukumar Sengupta Mahavidyalay, Paschim Medinipur

Prof. Santanu Biswas

1. UGC state-level seminar on 'Hybridisation of Science and Literature', Departments of Chemistry and English, Mahadevananda Mahavidyalaya, August 2016.

Prof. Abhijit Gupta

1. Two lectures at *National Workshop on Contemporary Interpretations of T.S. Eliot*, Bhopal School of Social Sciences, 25 February 2017
2. "'Most tolerable and not to be endured": Playing Shakespeare in Calcutta", at *Global Shakespeare*, St Mira's College, Pune, 16-17 December 2016
3. 'The Books of Fort William College: A Prolegomena', at Languages of the Book, the annual conference of the Society for the History of Authorship, Reading and Publishing (SHARP), Bibliotheque Nationale, 18-22 July, 2016.

Prof. Paromita Chakravarti

International:

1. Delivered paper on "Taming of the Bard: Domesticating farce in Srimati Bhayankari" in the Indian Shakespeares on Screen conference organized by Royal Holloway College, at Asia House, between 27th-30th April, 2016
2. Delivered talk at a roundtable at Stratford, organized by the Shakespeare Institute at the Other Place on 3rd May, 2016
3. Delivered a keynote presentation entitled "Shakespeare beyond Bollywood: Two Lear films and Bengali Modernity" at the international seminar organized by the Armenian Shakespeare Association in Yerevan between 1-3 October, 2016.
4. Delivered paper entitled "Where be your gibes now, your gambols, your songs?": Shakespeare's ghostly clowns" in a panel on "Going Hence" coordinated by Prof Sukanta Chaudhuri in the international conference on "Shakespeare's Ashes" at the British Council, New Delhi on the 21st and 22nd of October, 2016 organised jointly by The Shakespeare Society of India, in association with Ashoka University and the British Council.
5. Presented a paper on the "Shakespeare in Bengal" archival project under CAS at the International Workshop on Shakespeare Archiving organized by the School of Cultural Texts and Records, JU, on 29th November 2016

National:

6. Delivered talk on Women and Media at the Film Appreciation Course organized by the Chalachitra Satabarsha Bhavan, 21st July, 2015.

Annual Report 2016-17

7. Delivered talk on Marriage and Singleness at the National Consultation on “ A critical Examination of Sexuality Discourse in India”organized by Nirantar at the India Habitat Centre, New Delhi, 16th-17th June, 2016.
8. Delivered talk on “women in Community mental health” at the National Conclave for Community Mental Health organized by Anjali, in Kolkata, 15th-16th July, 2016.
9. Delivered a paper entitled “Challenging Marriage: Singleness as a queer life practice” on 22nd January, 2017 at Chennai at the XV th Indian Association for Women’s Studies conference (“Women in a Changing World: Restructured Inequalities, Countercurrents and Sites of Resistance”.) under the subtheme “Interrogating and expanding Feminist questions on sexuality and gender”.
10. Delivered a talk on “Singleness and Marriage” at the national Research conclave on early marriage organized by Partners in Law Development and AJWS at Zorba the Budha, New Delhi, between 27th Feb and March 1st, 2017.

Prof. Nandini Saha

1. Keynote address in International conference titled “Disrespected Neighbo(u)rs: Cultural Stereotypes in Literature and Film”, held at the Friedrich-Schiller University, Jena Germany, between 21 and 23 April 2016.
2. Presented a paper titled ‘Caste and Gender: Representation in Literature and Film’ at the annual conference of the School of Women’s Studies, Jadavpur University, titled ‘Women Speak Nation: Identities and Intersectionalities’ on the 8 and 9th of April, 2016.

Dr. Rafat Ali

1. ‘Qur’an and the ‘Divine Writ’: Islam in the “Writing Process” of Contemporary British Muslim Fiction’. National Conference on *Pen, Pain and Writing: Rethinking Links, Connectives and Negotiations*, Department of English, Salesian College, Siliguri, 6-7 January, 2017.

Sri Manojit Mandal

Paper presented/Lecture delivered/resource persons;
National-9; International-4

Dr. Sutanuka Ghosh

1. Reading ‘private’ and ‘public’ intimacies in Rabindranath Tagore’s *Ghare Baire* and *Sabitri*
Roy’s Bawdwip and Meghna-Podma, The 45th Annual Conference on South Asia, University of Wisconsin-Madison, USA, Oct 2016

Dr. Abhishek Sarkar

1. Presented a paper entitled “Disability and Sexual Desire in the Short Stories of Jyotirindra Nandi” at the three-day UGC-sponsored national conference entitled ‘Imagining the Differently Abled: Reading and Translating the Indian Short Story’ organized by the Departments of English, Jadavpur University from 18 to 20 January 2017.
2. Presented a paper entitled “*Hariraj* and *Haider*: Rehearsing the Indian Imaginary in Two *Hamlet* Adaptations” at the Second International Biannual Conference of the Asian Shakespeare Association held from 1 to 3 December 2016 in New Delhi.

3. Presented a paper (jointly with Prof. Paromita Chakravarti) on “The Shakespeare in Bengal Project” at the International Workshop on “Shakespeare Archiving, Digital Archiving and Textual Computing” organized by the School of Cultural Texts and Records and the Department of English, Jadavpur University on 29 November 2016.
4. Presented an illustrated paper entitled “Wallace Stevens and William Carlos Williams: The Uses of Painting in Poetry” at the State-level seminar on “American Poetry in Interaction with the Other Arts and Other Literatures: Cross-Pollinations” organized by the Jadavpur University Society for American Studies (JUSAS) and held on November 11, 2016.

Sri Kaustav Bakshi

1. Presented a paper at the international conference “The Place of Religion in Film”, as a part of the Ray Smith Symposium at **Syracuse University** in Upstate New York, the United States of America, on 31 March 2016. URL to the conference: <http://religionconference.syr.edu/schedule/>

3. C. Seminar/ Workshop/ Conference/ Symposium Organized:

Prof. Ananda Lal

1. Director, Garcia Lorca's *Yerma*. Departmental theatre production for 2016-2017. Invited for performances by various organizations, including the Birla Sabhagar Theatre Festival and Indian Council for Cultural Relations, Kolkata.

Prof. Abhijit Gupta

1. Chief organizer of ‘Doing Graphic Stories: A Comics Festival’, 12-14 January 2017

Prof. Paromita Chakravarti

1. Was part of the organizing committee, chaired sessions and led the Q and A with director Jayraj on his new film on Macbeth (*Veeram*) at the Asian Shakespeare Association's Biennial Conference ‘All The World's his Stage: Shakespeare Today’ held from 1st to 3rd December 2016 at the Indira Gandhi National Centre for the Arts, New Delhi.
2. Co-organised international symposium on “Sexuality, Health and Cultural Narratives” with Kaustav Bakshi in the Dept of English JU, in collaboration with Wellcome Trust, University of Sussex, Varta Trust on 24th August, 2016.

Prof. Nandini Saha

1. Co-coordinated a National seminar titled “Imaging the Differently Abled: Translating the Indian Short Story” between 18-20 January 2017

Dr. Nilanjana Deb

1. Convenor, two week GIAN workshop on “Environmental Humanities: Ecology, Culture and Intervention.” The workshop was led by Professor Stephen Muecke, Professor of Ethnography at University of New South Wales, Sydney, Australia. The workshop was held from November 14-30, 2016 and had a budget of 6 lakhs.

Smt. Sonia Sahoo

1. Member, Organizing Committee, UGC sponsored National Conference organized by the Centre of Advanced Study, Department of English, Jadavpur University – ‘Imaging the Differently Abled: Reading and Translating the Indian Short Story’, 18-20 January 2017.
2. Joint Convener, National Students’ Conference, organized by Centre of Advanced Studies, Department of English, Jadavpur University – ‘Cross-Cultural Encounters and

Negotiations: Place, Space, Identity', 16-17 Feb, 2017.

3. Joint Convener, Workshop on Linguistics and Language Documentation organized by Department of English, Jadavpur University, 27 Mar, 2017

Dr. Saswati Halder

1. Coordinator of a six-month certificate course entitled 'Functional and Communicative English,' at School of Languages, Faculty of Arts, Jadavpur University.
2. Jointly coordinated a national conference on 'Imaging the Differently Abled: Reading and Translating the Indian Short Story,' organized by the Centre of Advanced Study, Department of English, Jadavpur University in January 2017.
4. Jointly coordinated a national students' conference on 'Cross-Cultural Encounters and Negotiations: Place, Space, Identity,' organized by the Centre of Advanced Study, Department of English, Jadavpur University in February 2017.
4. Jointly coordinated a one-day workshop on 'Introduction to the Study of Linguistics and Training on Language Documentation,' organized by the Centre of Advanced Study, Department of English, Jadavpur University in March 2017.

Sri Manojit Mandal

1. Jt. Coordinator, Celebration of World Disability Day followed by Workshop on Mindfulness, December 2016.
2. Coordinator, International Conference on "Higher Education, Universities and Excellence: The Bengal Narrative", organized by the Centre for Studies and Rehabilitation of Differently Abled Persons and WBCUPA JU, December 2016.
3. Jt. Coordinator, National Conference on "Disability and Contemporary Indian Short Stories," organized by CAS, English, JU, January 2017.
4. Coordinator, National conference on, "Science, Technology and Disability: A National Perspective", organized by the Centre for Studies and Rehabilitation of Differently Abled Persons, JU, March 2017.

Dr. Abhishek Sarkar

1. Organized and co-ordinated a State-level seminar on "Otherness and Other Worlds: The Clash in American Literature and Art between Inclusiveness and Exclusivity" on behalf of the Jadavpur University Society for American Studies (JUSAS) on 28 February and 1 March 2017.
2. Organized and co-ordinated a State-level seminar on "American Poetry in Interaction with the Other Arts and Other Literatures: Cross-Pollinations" on behalf of the Jadavpur University Society for American Studies (JUSAS) on 11 November, 2016.
3. Organized, supervised and participated in a State-level workshop on "Translating African-American Poetry" on behalf of the Jadavpur University Society for American Studies (JUSAS) on 23 June, 2016.

Sri Kaustav Bakshi

1. Organised the international conference "Sexuality, Health and Cultural Narratives" at the Department of English, Jadavpur University, funded by **Wellcome Trust**, United Kingdom, on 24 August 2016.

3. D. Orientation Courses/ Refresher Courses Attended:

Sri Manojit Mandal

1. Short Term course on Stress management and Psychological Counselling, HRDC, JU.
2. Winter School, "Nation and Higher Education", HRDC, JU.

4. A. Books/ Monographs Published:

Prof. Ananda Lal

1. Research-based radio script

Tagore: A Spiritual Journey through Melody. (Commissioned.) National Programme, Akashvani, 2016.

Prof. Amlan Das Gupta

1. *Gaan Niye* (In Bengali) (Talpada, Kolkata 2017)

Prof. Nilanjana Gupta

(a) Books:

1. Editor, *Dance Matters Too: Markets, Memories, Identities*, Routledge, New Delhi & London, In print, 2017 (with Pallabi Chakraborty)
2. Coordinator Editor, *English for All* 3rd Edition, Macmillan, Manuscript preparation

4. B. Articles in Journals /Chapters in Books:

Prof. Ananda Lal

Articles (Book Chapters)

1. "The Torch Not the Sceptre": Writers Workshop, Calcutta". In *A History of Indian Poetry in English*. Ed. Rosinka Chaudhuri. New York: Cambridge University Press, 2016.
2. "Interculturalism in *The King of the Dark Chamber* in New York, 1961". In *Rabindranath Tagore and America: Overtures and Responses*. Ed. Indrani Haldar and Sukla Basu (Sen). Kolkata: Jadavpur University Society for American Studies, 2017.

Articles/Reviews in newspapers/journals

1. 40 theatre reviews in *The Telegraph*, Kolkata.
2. "Dancing beneath Diamond Sky". (On Bob Dylan's Nobel Prize.) *The Telegraph*, Kolkata, 14 October 2016.

Prof. Amlan Das Gupta

Articles (Book Chapters)

1. "The Humanities in the Age of their Digital Operability" in *The Place of Humanities in Our Universities*, ed. Mrinal Miri, OUP, Delhi
2. "Plates and Bangles", in volume on *Commodities and Culture*, ed. Jo McDonagh, Rajeshwari Sunder Rajan, Brian Murray and Supriya Chaudhuri, Routledge, London
3. "The Economy of Hunger: Representing the Bengal Famine of 1943" in *A Cultural History of Famine: Food Security and the Environment in Britain and India* ed. Ayesha Mukherjee, Routledge, London.
4. Artists in the Open in *Music, Modernity, Public Sphere*, ed T. Niranjana, OUP, Delhi

Prof. Prodosh Bhattacharya

Articles (both due for publication) 174

Annual Report 2016-17

1. 'Literature and Medicine in Post-Colonial India with Reference to Two Bengali Texts' in the records of the National Seminar on 'Literature, Medicine and Psychoanalysis in Colonial and Postcolonial India' (see below)
2. 'Wilde Desire' across Cultures: Dracula and its Bengali Adaptations' co-authored with Abhirup Mascharak, my Ph. D. scholar in the book *Imperial Maladies: Literatures on Healthcare and Psychoanalysis in India*, Editors: Pritha Kundu and Debashis Bandyopadhyay (Dept. of English, Chandrakona Vidyasagar Mahavidyalaya, West Bengal, India, and others)

Prof. Santanu Biswas

Articles in books and journals

1. 'Repetition and Death Instinct in *Subarnarekha*', in Manas Ghosh (Ed.) *The Golden Thread of Ritwik Ghatak* (Hyderabad: Orient Black Swan, forthcoming).
2. 'Hybridisation of Science and Literature: The Case of Psychoanalysis', in Proceedings of the UGC State-level seminar on 'Hybridisation of Science and Literature', Mahadevananda Mahavidyalaya, Kolkata: 2017, 17-26.

Prof. Abhijit Gupta

Articles in edited volumes

1. "The Newspaper and the Periodical Press in Colonial India", with Deeptanil Ray, in Joanne Shattock, ed. *Journalism and the Periodical Press in Nineteenth-Century Britain* (Cambridge: CUP, 2017)

Articles/Reviews in newspapers/journals

1. 'Urbanization from Below', Book Review, March 2017 (review of *Claiming the City*)
2. 'Eavesdropping and fierce whisperings in Calcutta', *Blink*, 15 July 2016
3. 'Mother and Other Tongues', *Indian Express*, 23 April 2016 (review of *The Girl Who Ate Books*)
4. 'Scandals in Old Calcutta', *Live Mint*, 29 April 2016
5. 'From the Bengal Press', *Live Mint*, 27 May 2016
6. 'A Brief History of Indian Body Building', *Live Mint*, 16 June 2016
7. 'A Literary Treasure Hunt', *Live Mint*, 23 September 2016
8. 'The zamindar who turned book hawker', *Live Mint*, 23 November 2016
9. 'Monkey Business', *Live Mint*, 16 December 2016
10. 'The Lion that Scared a School', *Live Mint*, 20 January 2017
11. 'Brave New Worlds in 1845', *Live Mint*, 24 February 2017

Prof. Paromita Chakravarti

(b) Articles: In books—

1. "Pleasurable Errors and Erroneous Pleasures: Renegotiating Shakespearean Romance in Three Indian Films" in Bi-qui Beatrice Lei, Judy Celine Ick and Poonam Trivedi eds. *Shakespeare's Asian Journeys: Critical Encounters, Cultural Geographies and the Politics of Travel*, New York: Routledge, 2017, pp.219-238

Prof. Nandini Saha

Chapters in Edited Volumes:

1. "Pragmatics and Regionalism in the Indian English Novel". In *Pragmatic Perspectives on Postcolonial Discourse: Linguistics and Literature*. Edited by Christoph Schubert and Laurenz Volkmann. Newcastle upon Tyne, NE6 2PA, UK: Cambridge Scholars Publishing, 2016. ISBN (10): 1-4438-9437-0. ISBN (13): 978-1-4438-9437-1
2. "Emergent Identities: Women Dalit Writers from Bengal". In *Emergent Identities in Literature*. Edited by Margaret L. Pachuau and Thongam Dhanajit Singh. Noida: Headword Publishing Pvt Ltd, 2016. ISBN: 978-9-38-565645-3

Smt Sonia Sahoo

Articles in Journals

1. 'Resituating Brexit: Anxieties of Early Modern Cultural and Linguistic Translation', *Caesurae: Poetics of Cultural Translation*, Vol 2, Issue 1, Special Issue, January, 2017. (ISSN 2454-9495), pp. 59-70. URL/DOI: <http://www.caesurae.org/>

Dr. Rafat Ali

Articles: (book chapters)

1. 'On the Road to *Dar-Al-Shahadah*: Migrant Muslims and the Islamic Life in British Muslim Writing', in *Believing and Belonging: Critical Essays on British Muslim Fiction*. Ed. A. R. Kidwai and A. Siddiqui. New Delhi: Viva Books, 2016.

Articles/Reviews in newspapers/journals:

1. Review of Abdur Raheem Kidwai, *Orientalism in English Literature: Perception of Islam and Muslims*. (New Delhi: Viva Books, 2016) in *Hamdard Islamicus*, vol.33, no. 4 (October-December 2016).

Sri Manojit Mandal

Articles/Reviews in newspapers/journals:

1. "Disability Today: Definitions, Rights & Rehabilitation", Introduction to the Special Issue, *International Research Journal Persons with Special Needs and Rehabilitation Management*, Vol. II, March 2017, Jadavpur University
2. Editor, *International Research Journal Persons with Special Needs and Rehabilitation Management*, Special Issue, Vol. II, March 2017, Jadavpur University.
3. Editor, Newsletter published from the Centre for Studies and Rehabilitation of Differently Abled Persons, JU.

Sri Ramit Samaddar

Articles in books

1. 'In the Exigency of a National Cause: Bollywood's Responses to the Kargil War', in Douglas Cunningham and John Nelson (eds), *A Companion to the War Film* (Malden, MA: Wiley-Blackwell, 2016), pp. 180-197.

Dr. Abhishek Sarkar

Articles in journal

1. "Haider and the Nation-State: Shakespeare, Bollywood, and Kashmir," *South Asian Review*, vol. 37.2 (2016): 1-18. ISSN 0038-2841.

Sri Kaustav Bakshi

Articles in books

1. 'In the Exigency of a National Cause: Bollywood's Responses to the Kargil War', in Douglas Cunningham and John Nelson (eds), *A Companion to the War Film* (Malden, MA: Wiley-Blackwell, 2016), pp. 180-197.

5. Collaborative Programmes:

Prof. Amlan Das Gupta

1. *Digitisation of South Asian Cultural Resources*, in association with the British Library, UK and supported by Sir Ratan Tata Trust, Mumbai. (Concluded 2016)
2. *Reorganization, Digitization and Cataloguing of the Maulana Abul Kalam Azad Collection of Paper Records*, with the Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata.
3. *Digitisation of the Paper Records* at the Victoria Memorial Hall, Kolkata.
4. *Famine and Dearth in India and Britain, 1550-1800*: with Exeter University supported by AHRC, UK. (Concluded 2016)

Prof. Nilanjana Gupta

1. Youth Reporters, funded by UNICEF Rs 24lakhs, ongoing

Prof. Abhijit Gupta

1. Co-investigator, 'Two Centuries of Indian Print', with the British Library UK, funded by the AHRC, 2016-18.

Prof. Paromita Chakravarti

1. "Mobilising Single Women in West Bengal" (Second Phase)—funded by AJWS and hosted by Sappho for Equality, September 2016 to August 2017.

Dr. Nilanjana Deb

1. Project Investigator, EAP 922: Digitization and Conservation of the Endangered Paper Records of the British Indian Association in collaboration with the British Library and funded by the Endangered Archives Programme, from September 1, 2016 (ongoing). The project involves intensive onsite sorting, as well as digitizing and listing of material at the British India Association. The value of the project is approximately 34 lakhs, and is being conducted under the aegis of the School of Cultural Texts and Records.

6. Major Achievements

Prof. Ananda Lal

1. Project Head, Tagore Cultural Complex at Jadavpur University (Union Ministry of Culture and matching grant from Government of West Bengal)

Prof. Amlan Das Gupta

1. Completed the projects on 'Digitisation of South Asian Cultural Resources' in association with the British Library, UK and supported by Sir Ratan Tata Trust, Mumbai in 2016 and 'Famine and Dearth in India and Britain, 1550-1800' with Exeter University supported by AHRC, UK also in 2016.

Prof. Nilanjana Gupta

1. Coordinator CAS III as well as Cultural Resources and Social Sciences Programme,

Annual Report 2016-17

UGC-UPE II. She supervised several projects, on “Science for Women”, “Madrasas in India”, “Acropolis” and “UNICEF Child Radio Reporters.

Prof. Santanu Biswas

1. Honorary Member, Lacan Circle of Melbourne, Joint Editor, *Culture/Clinic* (Département de Psychanalyse, Université de Paris VIII, and Columbia University), and a practising psychoanalyst.

Prof. Abhijit Gupta

1. Honorary Director, Jadavpur University Press

Prof. Paromita Chakravarti

1. Visiting Fellow at the University of Birmingham (Indian short term fellowship), 25th April-25th May, 2016.

Prof. Nandini Saha

1. Co-coordinated a National seminar titled “Imaging the Differently Abled: Translating the Indian Short Story” between 18-20 January 2017

Dr. Nilanjana Deb

1. Convener, two week GIAN workshop on “Environmental Humanities: Ecology, Culture and Intervention.” The workshop was led by Professor Stephen Muecke, Professor of Ethnography at University of New South Wales, Sydney, Australia. The workshop was held from November 14-30, 2016 and had a budget of 6 lakhs.

Dr. Saswati Halder

1. Editor-in-Chief of the Centre for Victorian Studies’ interdisciplinary online Journal ‘The Confidential Clerk.’
2. Coordinator, Centre for Victorian Studies, Jadavpur University.
3. PhD thesis on ‘A Goodness Entirely Human: The Influence of Feuerbach on George Eliot’s Fiction’ submitted in September 2016 and viva-voce successfully completed in May 2017.

Sri Manojit Mandal

1. Coordinator, National conference on, “Science, Technology and Disability: A National Perspective”, organized by the Centre for Studies and Rehabilitation of Differently Abled Persons, JU, March 2017.
2. Jt. Coordinator & Member, Academic Committee, Centre for Studies and Rehabilitation of Differently Abled Persons, JU.

Dr. Sutanuka Ghosh

1. Jt. Coordinator, Centre for Victorian Studies, Jadavpur University.

Dr. Abhishek Sarkar

1. Co-ordinator, the Jadavpur University Society for American Studies (JUSAS).

FILM STUDIES

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H.O.D. : Prof. Abhijit Roy
E-mail : hod@filmst.jdvu.ac.in
hod.filmstudy@jadavpuruniversity.in

1. A. Courses Offered: (Name of the Course, Duration of the Course, No of Students Enrolled)

- MA in Film Studies (2 Years; 35 Students each year)
- Undergraduate Extra-Departmental (6 courses over 4 semesters; 35 students in each course)
- PhD Coursework (1 semester every year; 3 Scholars enrolled for July-December, 2016)
- PhD programme (3 scholars registered between 01-04- 2016 and 31-03- 2017)

1. B. Name of the Faculty Members:

Name of the teacher	Designation
Prof. Sanjoy Mukhopadhyay	Professor (Retired on 31-12-2016)
Prof. Moinak Biswas	Professor
Prof. Abhijit Roy	Professor
Dr. Madhuja Mukherjee	Associate Professor
Anindya Sengupta	Assistant Professor
Shradhanjali Tamang	Assistant Professor
Dr. Manas Ghosh	Assistant Professor (Contractual)
Dr. Subhajit Chatterjee	Assistant Professor (Contractual)

2. A. Area of Research Activities: (Broad Areas)

Name of the Teacher	Specialization
Prof. Sanjoy Mukhopadhyay	Classical Film Theory, Film and Other Arts, Cinema of Ritwik Ghatak and Satyajit Ray, Walter Benjamin and Theories of Modernity, Modernisms
Prof. Moinak Biswas	Indian cinema, Film Theory, Cultural theory
Prof. Abhijit Roy	Indian Television, Television Studies, Media Theories
Dr. Madhuja Mukherjee	Historiography and Indian film industry (including its contemporary phase, and regional sectors), Public cultures and spaces, Film organizations, History of technologies, techniques, styles, genres, gender and stars, Sound of Indian films, Bengali popular cinema and exhibition networks.
Anindya Sengupta	Classical Hollywood Cinema, Cinema of Satyajit Ray

Annual Report 2016-17

Dr. Manas Ghosh	and Ritwik Ghatak, French New Wave and Film Theory Asian Cinema, Iranian Cinema, Latin American Cinema, Non-fiction films
Dr. Subhajit Chatterjee	Film Historiography, Bengali Cinema, Indian Film and Popular Culture, Cult and Exploitation Films, New Waves and Japanese Cinema
Shradhanjali Tamang	Nepali Cinema; National and Transnational, Ethno- graphic films on Eastern Himalayas, Oral history and tradition of Eastern Himalayas, Translation.

2. B. Major Research Projects: (Departmental/Individual, Name of the Project/Funding Agency)

Abhijit Roy, Principal Investigator

1. Name of the project: 'New Media for Change: Multimedia Stories on Under-reported Issues'; Funding Agency: UGC (UPE phase-II, Jadavpur University).

3. A. Invited Lectures Delivered / Sessions Chaired:

(Name of the Teacher, Type of Participants, name of the Seminar/Conference etc, Place, Duration)

Sanjoy Mukhopadhyay

1. 'Arrival of Cinema: Modernity', lecture at Department of History, Visva-Bharati, April 8, 2016.
2. 'M.F.Husain's *Gajagamini*', talk at Academy of Fine Arts, April 12, 2016.
3. Speaker, Annual Bhaskar Chakrabarti Memorial Lecture, Bangla Academy, July 23, 2016.

Moinak Biswas

1. Lecture on 'Narration in Indian Cinema' at Film Appreciation Course, Chalachchitra Satabarsha Bhavan, July, 2016.
2. Lecture on 'The Absences of Abbas Kiarostami', School of Cultural Texts and Records, July, 2016.
3. Lecture on 'Kiarostami bhuban', 'Cinema of Resistance', Jogesh Mime Academy, August, 2016.
4. Panel speech on 'Doing Film Society', National Seminar on 'Encountering World Cinema in India', November 4, 2016.
5. Lecture on 'Time in Cinema' in the course of 'Management through Film', Indian Institute of Management Calcutta, February, 2017.

Abhijit Roy

1. 'Television and Popular Culture' and 'Film and Television in the Era of Globalization', two lectures at the film appreciation course, Chalachchitra Satabarsha Bhavan, Govt. of West Bengal, Calcutta, 3 August, 2016.
2. 'Television and the Indian State' and 'Television and Popular Culture in India', two lectures at the 105th Orientation programme organized by Human Resource Development Centre, Burdwan University, 7 September, 2016.
3. Chaired two sessions at the national seminar on 'Encountering World Cinema in India'

Annual Report 2016-17

- organized by Department of Film Studies, Jadavpur University, 3-4 November, 2016.
4. Chaired a session at the International Seminar on 'Shifting Significations of Borders in Contemporary South Asia and the Americas' organized by the Centre for Studies in Latin American Literatures and Cultures & Centre of Advanced Study (CAS), Department of Comparative Literature, Jadavpur University, 19 January, 2017.
 5. Presentation at a panel discussion on 'From local cultures to a global culture', *Suffragium*: Annual departmental event of Department of Political Science, St. Xavier's College (Autonomous), Kolkata. 11 February, 2017.
 6. 'Studying Radio: Basic Concepts', lecture at the UGC-sponsored 6-month certificate course on 'Radio Production', School of Media, Communication and Culture, Jadavpur University, 17 February, 2017.
 7. Chaired a session at the National Seminar on 'Sustenance and Development in the Tea Gardens of Northeast India and North Bengal' organized by the project 'A Study of Education as Social Security Measure in the Tea Gardens of Northeast India and North Bengal' under UGC-UPE (Phase II) programme of Jadavpur University, 26 March, 2017.

Madhuja Mukherjee

1. 'Bengali Cinema: Studio Era' and 'Indian Popular Cinema: Raj Kapoor and Mehboob Khan', two lectures at the Film Appreciation Course organized by Chalachitra Satabarsha Bhavan, Govt. of West Bengal, June-July, 2016.
2. 'Let's Make Some Noise: Campus Activism, Youth Movement and Creativity', lecture at *Inter-Asia Cultural Studies* Summer School 2016, Lingnan University, Hong Kong, June 2016.
3. 'The Medium and the Frame', lecture at the Lecture Series: Passage II, at Chander Haat Art Space, Kolkata, December 2016.
4. Chair of the session 'Doing Graphic Stories: A Comics Festival', organized by Department of English, Jadavpur University, and Longform Collective, January 2017.
5. Chair of the session 'Video Vortex XI, Video in Flux: Art, Activism & Archives', organized by The Srishti Institute of Art, Design & Technology, a collateral project of Kochi-Muziris Biennale, February 2017.
6. Talk on 'Porous Archives, Absentee Image' (Session: Preserving Time) at the seminar on 'Photo Sensitive: Locating Photography Today' organized by Alkazi Foundation for the Arts, and Culturelle Institut Français en Inde, New Delhi, December 2016.

Shradhanjali Tamang

1. Chaired a session at the National Seminar on 'Encountering World Cinema in India' organized by Department of Film Studies, Jadavpur University, November 3-4, 2016.
2. Chaired a session at the 9th Debrupa Bal Memorial National Students' Seminar on 'India, the Self and the Other: Conflict, Dialogue and Synthesis', organized by Department of Comparative Literature, Jadavpur University, February 2-3, 2017.

Manas Ghosh

1. 'Akira Kurosawa's *Throne of Blood*: Adapting Shakespeare in Japan' at a seminar on 'Film and Literature' organized by Department of English and Department of Mass Communication, Acharya Prafulla Chandra College, New Barrackpore, West Bengal, August 14, 2016.

Annual Report 2016-17

2. 'Encountering Reality in Iranian Cinema', a talk organized by Department of Journalism and Mass Communication and Cine Club of South Calcutta Girls' College, Kolkata, August 19, 2016.
3. 'In Defence of New Cinema Movement in India', lecture at the short course on 'Indian Cinema: Trends and Issues', organized by Bardhaman Chalacchitra Charcha Kendra, Zila Parisad Auditorium, Burdwan, March 4, 2017.
4. 'Satyajit Ray's *Nayak* (1966)', lecture at a session to commemorate 50 years of *Nayak*, organized by Cine Guild, Bally, West Bengal, September 20, 2016.
5. 'New Latin American Cinema', a lecture at the Film Appreciation Course organized by Ministry of Information and Cultural Affairs, Govt. of West Bengal, Chalacchitra Satabarsha Bhavan, Kolkata, June 29, 2016.
6. 'Asian Cinema: PR China & Taiwan', a lecture at the Film Appreciation Course organized by Ministry of Information and Cultural Affairs, Govt. of West Bengal, Chalacchitra Satabarsha Bhavan, Kolkata, July 8, 2016.
7. 'New Iranian Cinema', at the Film Appreciation Course organized by Ministry of Information and Cultural Affairs, Govt. of West Bengal, Chalacchitra Satabarsha Bhavan, Kolkata, July 12, 2016.
8. Chaired the Academic Session VII at the International Seminar titled 'Of Conflicts and Landscapes: The Rhetoric of Performance and Visual Art in Canada' organized by Centre for Canadian Studies, Jadavpur University, Kolkata, 8 March, 2017.
9. Moderated the panel discussion on 'Cotemporary Chinese Cinema' organized by Kolkata International Film Festival, Nandan, November 14, 2016.

Subhajit Chatterjee

1. 'Early Cinema', 'Birth of Auteurs' and 'Japanese Cinema', three invited lectures delivered as resource person at Film Appreciation Course 2016 organized by Government of West Bengal at Chalacchitra Satabarsha Bhavan on June 30, July 8 & 9, 2016.
2. Chaired a session at the national seminar on 'Encountering World Cinema in India' organized by Department of Film Studies, Jadavpur University, November 3-4, 2016.

3. B. Seminar/ Workshop/Conference/Symposium Attended:

(Name of the Teacher, name of the Paper Presented, Name of the Seminar, Place, Duration)

Moinak Biswas

1. 'The Home and the Open', paper presented at Institute of Development Studies Kolkata, and Utrecht University, Netherlands, sponsored International seminar on 'Urban Futures and Urban Utopia in South Asian Megacities: Narrative, Play, Planning', IDSK, Kolkata, July, 2016
2. 'Bijan Bhattacharya in Film', paper presented at National Seminar commemorating the Centenary of Bijan Bhattacharya, Sahitya Akademi, Kolkata, January, 2017.
3. 'Rajnaitikatar apasaran: Arter anchal theke tola duekti prasna', paper presented at ICSSR sponsored National Seminar on 'Rethinking Counter-Revolutions', organized by Alochanachakra, January, 2017, at Hiralal Sen Memorial Hall, Jadavpur University.

Abhijit Roy

1. 'Indo-Pak Mediascape and the Curious Case of Zindagi TV', paper presented at the

Annual Report 2016-17

international conference on 'Cinema and Transnationalism in Pakistan and South Asia: Regional Histories', organized by 'South Asian Regional Media Scholars Network'. Lahore University of Management Sciences, Lahore, Pakistan (presented through Skype). 1 September, 2016.

Madhuja Mukherjee

1. 'Networks of Cinema in South Asia during 1920s-1940s', paper presented at the international conference on 'Cinema and Transnationalism in Pakistan and South Asia: Regional Histories', organized by 'South Asian Regional Media Scholars Network'. Lahore University of Management Sciences, Lahore, Pakistan (presented through Skype). September 2016.
2. 'Gangs of Wasseypur and Digital Recreations: Music, Memory, Noise', paper presented at the 'Sound and South Asia Conference', Centre for South Asian Studies, University of Michigan, Ann Arbor, October 2016.
3. 'Inside a TENT / Outside the box', a talk at the at Future Orbits Seminar organized by VisionMix and The Srishti Institute of Art, Design & Technology, a collateral project of Kochi-Muziris Biennale, January 2016.
4. 'Underbelly of a City: The toing and froing between amateur and art-house films', a talk at the *Video Vortex XI, Video in Flux: Art, Activism & Archives*, organized by The Srishti Institute of Art, Design & Technology, a collateral project of Kochi-Muziris Biennale, February 2017.

Anindya Sengupta

1. 'Decrepit Presences: Speculations on the Aging Bodies in Cinema', paper presented at UGC-Sponsored Two-day National Seminar titled 'The Body Speaketh: Interrogating Cultural Constructions of the Body', organized by Department of Comparative Literature, Jadavpur University and Department of English, Ramakrishna Mission Vidyamandir, Belur, Howrah, January 31, 2016.

Shradhanjali Tamang

1. Participated as a resource person in Nepali-Bangla and Nepali-English translation workshop on 'contemporary Indian Nepali Language writings 2000-2015', organized by Centre for Translation of Indian Literatures (CENTIL), Jadavpur University, June 20-24, 2016.
2. Participated as a resource person in Nepali-Bangla translation workshop on 'The Nepali Lahari-Sawai', organized by Centre for Translation of Indian Literatures (CENTIL),

Annual Report 2016-17

Jadavpur University, November 21-29, 2016.

3. 'Gender and Disability in Indian Nepali short Stories', paper presented at National Seminar on 'Imaging the Differently Abled: Reading and Translating Indian Short Stories', organized by Centre of Advanced Studies, Department of English, Jadavpur University, January 18-20, 2017.
4. Participated as a group leader (Nepali-Bangla/English) in a two-day International Winter School for Literary Translation, organised by the Centre for Translation of Indian Literatures (CENTIL), Jadavpur University, in collaboration with the British Centre for Literary Translation, University of East Anglia, and the Writers' Centre Norwich, Jadavpur University, January 30-31, 2017.
5. 'The Indigenous Tamba Tradition in Darjeeling and Sikkim', paper presented at International Conference on 'Darjeeling and the Eastern Himalayas: A Multidisciplinary Approach' organized by Salesian College Sonada, March 14-15, 2017.

Manas Ghosh

1. 'Films of Social Commitment: The Long 1930s in Chinese and Indian Cinema', paper presented at the international seminar on 'India and China in Emerging Asian Domain: The Road Ahead', organized by Netaji Institute for Asian Studies, School of Chinese Language in Kolkata and H. P. Biswas India-China Cultural Study Centre, Department of International Relations Jadavpur University, Kolkata, September 22-23, 2016.
2. 'Teaching Literature and Film: Methods and Approaches', a talk at the UGC Sponsored 7-day international workshop on 'Methodology of Teaching Bengali Literature at College/University Level', organized by Dept. of Education, Jadavpur University, Kolkata, January 25, 2017.
3. 'Perspectivalism in Cinema: Rules and Alternatives', paper presented at a State-level Seminar on 'Film and Literary Studies: An Interface' organized by Department of English, Bankura Christian College, Bankura, West Bengal, March 20, 2017.

3. C. Seminar/ Workshop/Conference/Symposium Organized:

(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

1. National seminar on 'Encountering World Cinema in India', November 3-4, 2016. Coordinators: Madhuja Mukherjee, Abhijit Roy and Manas Ghosh.
2. Lecture series on Indian Cinema by Prof. Ravi Vasudevan, Centre for the Study of Developing Societies, Delhi, under the UGC GDA – Travel, Seminar and Visiting Fellow Scheme (XII Plan). February 27-March 10, 2017.
3. Lecture series on Indian Cinema by Prof. S. V. Srinivas, School of Liberal Studies, Azim Premji University, Bangalore, under the UGC GDA – Travel, Seminar and Visiting Fellow Scheme (XII Plan). February 13-18, 2017.
4. 'New Film Modernism', an illustrated talk by Dr. Mark Betz, Reader in Film Studies, King's College, London, March 22, 2017
5. 'Landscape, Art, Cinema, Data: New Historical Coordinates for Contemporary Media Cultures', an illustrated lecture by Dr. Kaushik Bhaumik, Associate Professor, School of Arts and Aesthetics, Jawaharlal Nehru University, New Delhi, January 20, 2017.

Annual Report 2016-17

6. 'Zombies are Us? Planetary Genres in Contemporary Bollywood', a lecture by Meheli Sen, Assistant Professor, Rutgers University, USA, January 11, 2017.

3. D. Orientation Courses/ Refresher Courses Attended: (Name of the Teacher, Title of the Course, Duration, Place)

Shradhanjali Tamang

1. Attended the GIAN (Global Initiative of Academic Networks) course on 'Oral History and the Art of Listening' organized by Department of Comparative Literature, Jadavpur University, 9-16 November, 2016.

4. A. Books/Monographs etc. Published: (Name of the Teacher, name of the BOOK, Name of the Publisher)

Sanjoy Mukhopadhyay

1. *Four Hundred Blows* (Annotated translation of screenplay), Saptarshi Prakashan, Kolkata, May 2016.

2. *Cinemar rupkatha*, Mandakranta, Kolkata, July 2016.

3. *Ogo maya ogo batayan*, Khowabnama, Kolkata, August 2016.

Madhuja Mukherjee

1. Editor, *Voices of the Talking Stars, The Women of Indian Cinema and Beyond*, Stree: Kolkata/ SAGE, India (January 2017).

4. B. Articles Published in Journals: (Including National/International & Peer-Reviewed Journals)

(Name of the Teacher, Name of the Articles, name of the Journal, date of Publication, Volume)

Sanjoy Mukhopadhyay

1. Article on Bikash Ray, *Aajkal Autumn Special Issue*, September 2016

2. Article on Moti Nandy, *Ei Samay Festival Issue*, September 2016

3. Article on Bijan Bhattacharya, *Bhashabandhan Festival Issue*, September 2016

4. Article on Hiralal Sen, *Shiladitya Festival Issue*, September 2016

5. Article on Bengali Cinema of 1950s, *Kalantar Festival Issue*, September 2016

6. 'Cinemar Galpo', *Dainik Basumati Festival Issue*, September 2016

7. 'Chhoto Chhobir Baro Katha', *Dainik Pratidin*, September 2016

Moinak Biswas

1. 'Bharatiya chhabi o pashchim pradakkhin', in Arindam Chakrabarti ed. *Bangalir Europe Charcha*, Kolkata: Anustup Prakashan, April, 2016

2. 'Kiarostamir bhuban' in *Pratirodher Cinema*, Vol 4: No 1, January, 2017

3. 'From Space to Location' in *Positions: Asia Critique*, vol. 25, no. 1, February, 2017, pp. 9-28.

4. 'A Booklets Sequence', *South Asian History and Culture*, Volume 8, Issue 2, March, 2017.

Abhijit Roy

1. 'Ek asubho jatrपाला', translation of 'An Ominous Operetta', article by Alok Rai, in *Bipanna samay: Barnabad, jatiyotabad, bakswadhinota o ajker bharot*, eds. Sarmistha Dutta Gupta and Trina Nileena Banerjee. Ebong Alap and Ebong Mushaira, December 2016.

Madhuja Mukherjee

1. "Nishobder rup: Prothom juger bharatiya chalachchitra o tar ekadhik path" in *Itihasye Janasanskriti, Parishare unish-bish satak* ed. Amitava Chatterjee. Gangchil: Kolkata, January 2017, pp. 59-68.
2. "Sounding Dystopia: Anurag Kashyap's Films and Relocation of Popular Tropes" in *Behind the Scenes: Contemporary Bollywood Directors and Their Cinema*, eds. Aysha Iqbal Viswamohan & Vimal Mohan John. New Delhi/ California/ London/ Singapore: Sage, 2017, pp. 185-214.
3. "Kangal Malsat er nabarupayan: Novel theke graphic novel, cinema r madhyome" in *Nabarun Bhattacharya: Monon o darshan* ed. Adway Chowdhuri and Arka Chattopadhyay. Aihik Prakashani: Kolkata, August 2016, pp. 395-400.
4. "War Cry of the Beggars: An Exploration into City, Cinema and Graphic Narratives" in *South Asian Popular Culture* 14. 1-2, 2016, pp. 73-87.
5. "Toward A New Frame for Regional Films: Manbhum Videos and the Other Side of (Indian) Cinema" in *Bioscope: South Asia Screen Studies* 7.1, 2016, pp. 58-79.
6. "Music, Sound, Noise: Interposition of the Local and the Global in Anurag Kashyap's *Gangs Of Wasseypur*" in *Music of Contemporary Indian Film*, ed. Jayson Beaster-Jones and Natalie Sarrazin, Routledge: New York, 2016, pp. 176-191.
7. "That Figure in The Dark: Of Melodrama, Noir and Multiplicity during 1950s" in *Indian Film Culture/ Indian Cinema*, ed. Gautam Kaul, Codex, Federation of Film Societies of India: Kolkata, 2016, pp. 116-136.
8. "Whispers of a Wild Cat" (based on the life and works of Sulochana nee Ruby Myers) in *First Hand, Graphic Non-fiction*, ed. Orijit Sen & Vidyun Sabhaney, Yoda Press, New Delhi, May 2016, pp. 175-183.

Anindya Sengupta

1. 'Bangla chhobitey asamapto sottor dashok', *Aneek*, Jan-Feb 2017
2. 'Shorirer chhobi, rajnitir shorir: Cinemar(A)sachetan rajniti niye kichhu bhabna', *Charbak*, April 2016.
3. Book Chapter titled 'Chnader asustho pandur alo: Nabarun Bhattacharyar godyo o tar sambhabyo cinematic', in *Nabarun Bhattacharya: Monon o darshan*, ed. Arka Chattopadhyay et al. Aihik Prakashani, September 2016.
4. Book Chapter titled 'Chirodin tomar aakash: Sobar deshoprem, amar hallucination, koyekti lekha chhobi o ekti plague-er galpo', in *Nashta atmar bharat vision: Nishad Series 1*, ed. Surajit Sen, Nishad, August 2016.

Shradhanjali Tamang

1. Translated short story 'Landslide' (with Sayantan Dasgupta) in *Himal South Asian*, Jagadamba Press, Lalitpur, Nepal, September 2016, 244-254.

Manas Ghosh

1. Book Chapter titled 'Nation and Partition: Tagore Reinvented by Ritwik Ghatak', in K. L. Tuteja & Kaustav Roy (eds.) *Tagore and Nationalism*, Springer, New Delhi, pp. 325-335.
2. 'Iraner sanskritik aadhunikota: Kiarostami o onyanyoprosongo', *Pratirodher Cinema*, Vol.4, No.1, Feb. 2017.
3. 'Smriti, satwa, bhobisyat', a feature article in *Ei Samay* (Robibaroyari, p.4), December 4, 2016.
4. 'Shorir, sudhu shorir?', a feature article in *Ei Samay* (Robibaroyari, p.5), October 28, 2016.

Subhajit Chatterjee

1. 'Towards a New Junk Aesthetics? : Narratorial Predicaments in Contemporary Alternatives in/to Bollywood', *Positions: Asia Critique* (Special Issue on Indian Cinema), volume 25, number 1, February 2017 , pp. 195-222.
2. "On Subjection and Authoritarian Power: The Cinema of Masaki Kobayashi", Kolkata International Film Festival Brochure, Govt. of West Bengal, November 11, 2017, pp. 163-164.

6. Major Achievements:

Moinak Biswas

1. Was commissioned to make a video installation for the 11th Shanghai Biennale. The work, titled 'Across the Burning Track' (2-screen, 4 audio channel, 25 mins.), was shown between November, 2016 and March, 2017. It is now preserved in the permanent collection of the Power Station of Art, Shanghai.

Madhuja Mukherjee

1. Participated in the Collateral Project of *Kolkata Arts Festival*, February, 2017, organized by CIMA Art Gallery. Mukherjee's project *House of Fire* was part of 'Shifting Narratives' programme curated by Manas Acharya, held at Gem cinema, Calcutta. It highlighted the many passages of the film *Sholay*, and public cultures. (https://www.telegraphindia.com/1170218/jsp/opinion/story_136278.jsp)
2. Was selected for the German Federal Government's *Visitors' Programme* (February 2017) and participated in *Berlinale 2017* to develop her research projects and art practices.

HISTORY

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 hod.history@jadavpuruniversity.in
Website : www.juhistory.org

1. A. Courses Offered:

Name of the Course	Duration of the Course	Annual Intake
B.A. Honours	3 years, 6 semester	55
M.A.	2 years, 4 semester	65
M.Phil	2 years, 4 semester	15
Ph.D (by coursework)		(as per UGC guidelines)

1. B. Number of Faculty Members:

Sanctioned post – 18 Currently- 16

The department at present has **15** full time faculty members and **1** faculty member is on lien and **2** post are vacant.

Name: Mahua Sarkar, Designation: Professor, Qualification: M.A., Ph. D., (J.U.)

Name: Ranjan Chakrabarty, Designation: Professor, Qualification: M.A. Ph.D. (J.U.)
(Currently Vice-Chancellor, Vidyasagar University)

Name: Anuradha Roy, Designation: Professor, Qualification: M.A. (D.U.), Ph. D. (C.U.)

Name: Nupur Dasgupta, Designation: Professor, Qualification: M.A., Ph. D. (J.U.)

Name: Rup Kumar Barman, Designation: Professor, Qualification: M.A., Ph.D. (N.B.U.)

Name: Kaushik Roy, Designation: Professor, Qualification: M.A., Ph.D. (J.N.U.)

Name: Subhasis Biswas, Designation: Professor, Qualification: M.A., Ph. D. (J.U.)

Name: Sudeshna Banerjee, Designation: Associate Professor, Qualification: M.A. (C.U.), Ph. D (SOAS, London)

Name: Suchetana Chattopadhyay, Designation: Assistant Professor, Qualification: M.A. (J.U.), Ph. D. (SOAS, London)

Name: Maroona Murmu, Designation: Assistant Professor, Qualification: M.A, M. Phil., Ph.D, (J.N.U.)

Name: Tilottama Mukherjee, Designation: Assistant Professor, Qualification: M.A., M. Phil. (J.N.U.), Ph. D. (Cambridge)

Name: Samir Das, Designation: Assistant Professor, Qualification: M.A.

Name: Chandrani Banerjee Mukherjee, Designation: Assistant Professor, Qualification: M.A, Ph. D. (B.H.U.)

Annual Report 2016-17

Name: Samarpita Mitra, Designation: Assistant Professor, Qualification: M.A. (Cal), Ph.D. (Syracuse University)

Name: Debajit Dutta , Designation: Assistant Professor, Qualification: M.A., Ph.D. (NBU)

Name: Utsa Roy, Designation: Assistant Professor, Qualification: M.A. (Cal), Ph.D., (Pennsylvania State University)

2. A. Area of Research Activities:

The Department received the University Grants Commission's prestigious Special Assistance Programme in 2005 for Research on Environmental History. The Programme has been upgraded to DSA- Phase I. This is in effect from 01.04.2015.

Thrust area: **Environmental History**

Related thrust area: **Social History of Science and Technology and Sanitation.**

2. B. Seminar/Conference Organized:

- a) Jadunath Sarkar Memorial Lecture on 'Evolving Contours of medieval Indian History' by Prof. Harbans Mukhia, 24.02.2017.
- b) International Seminar on 'Hegemony Resistance & Cultural Artifacts: India in the late 19th and 20th centuries' 7th- 8th March, 2017.

Faculty Profiles: Professors

PROF. MAHUA SARKAR

3. (A) Area of Research Activities: Coordinator, UGC. SAP. DSA-1 on History of Environmental concerns in South Asia: Politics, Practices and Implementation

(B) Major Research Project: a) individual UGC Project on Music and the alternative methodology of Environmental History b) individual UGC Project on An Environmental History of North Bengal

4. (A) Invited Lectures Delivered/ Session Chaired: International-6 National-5

1. Invited to present a paper on 'Disease, Environment and the colonial state in the 24th Conference of European Association of South Asian Studies, Warsaw, Poland, July, 2016.
2. Invited to present a paper on 'Bengali Theatre and the Actresses of Bengal 1795-1876' in the 24th Conference of European Association of South Asian Studies, Warsaw, Poland, July, 2016.
3. Invited to deliver a lecture on 'Orientalism in India and China" in the International Seminar on 'India and China in Emerging Asian Domain: The Road Ahead' on September 22,2016, organized by the Netaji Institute for Asian Studies, The School of Chinese Language, Kolkata and H.P. Biswas India-China Cultural Study Centre, Jadavpur University, Kolkata.
4. Invited to deliver a lecture on 'Women Jhumurias and the Methodology of Environmental History' in the International Seminar on 'The Natural History Heritage of India" on 1st October, 2016, in the Indian Museum, organized by the Botanical Survey of India, Industrial Section of Indian Museum, And the Centre for World Environmental History, University of Sussex, England.
5. Invited to deliver a lecture on 'Eco-feminism and a history from below:Forests and the Women Dancers of Purulia" in the International Seminar on "Forests, Sacred Groves

and Environmental Heritage of India,' on 30th March, 2017, in the Indian Museum, organized by the Botanical Survey of India, Industrial Section of Indian Museum, And the Centre for World Environmental History, University of Sussex, England.

6. Chaired a session in the International Seminar on Hegemony Resistance and Cultural Artefacts: India in the late 19th and 20th centuries, Organized by the Department of History, Jadavpur University, on 7-8 March, 2017.

National-5

1. Invited to deliver the keynote address on 'Women in Twentieth Century Bengal' in a National Seminar on 'Gender, Culture, Politics: Bengal in the Twentieth Century- Open Distance Initiative' on 24th September, in Netaji Subhas Open University, Kolkata.
2. Invited to deliver the keynote Address on "Environmental History of North Bengal' in a National Seminar on 'Society, Economy and Environment of Tista-Brahmaputra Valley: a Changing Scenario" on 3rd September, 2016, in Netaji Subhas Mahavidyalaya, Haldibari, Cooch Behar, West Bengal.
3. Invited to deliver the keynote address on 'Environmental History of the Jungal Mahals' in Subarnarekha Mahavidyalaya, Gopiballavpur, West Medinipur, on 4th October, 2016.
4. Invited to deliver the Annual Suchintan Lecture on 'Jhumur and the women performers of Chotanagpur' in Suchintan Society on 26th June, 2017.
5. Invited to deliver Hiralal Gupta Memorial Lecture on "Eco-feminism and the Adivasi women of Chotanagpur' organized by the Institute of Historical Studies, Kolkata on 10th February, 2017.

(B) Seminar/Workshop/Conference/Symposium Attended:

1. Presented a paper on 'The History of Pollution in Calcutta' in the Annual Conference of Paschim Bangal Thas Samsad, Basanti Devi College, Kolkata, 25th January, 2017.
2. Presented a paper on 'The Historical Significance of Tagore's Songs' In the Annual Conference of Indian History Congress, Trivandrum, Kerala, and 29th December, 2016.
3. Introduced the theme as the Coordinator of the International seminar on 'Environment and the Adivasi World', 10th February, 2016.
4. Introduced the theme as the Coordinator of the International seminar on Recent Trends In Environmental History: Narrating Biodiversity Loss In India' on 28th February, 2017.
5. Delivered two lectures on "Nation and Higher Education: illustrations from Nineteenth Century Bengal' on 16th March, 2017, in the Winter School of the Faculty of Arts, Jadavpur University.

(C) Seminar/Workshop/Conference/Symposium Organized: 1

Organized the International Seminar on Recent Trends in Environmental History: Narrating Biodiversity Loss In India in Department of History, Jadavpur University, on 28th February, 2017.

(E) Orientation Course/Refresher Course Organized:

Coordinated Three weeks Interdisciplinary Winter School in Faculty of Arts, Jadavpur University, 10-31 March, 2017.

5. (A) Books/ Monographs etc. Published:

1. Environment and the Adivasi World, ed. Manohar, New Delhi and Alphabet Books, Kolkata, 2017.

2. A. Collage of Environmental History, ed. Manohar, New Delhi and Alphabet Books, Kolkata, 2017.

(B) Articles Published in Journals: 4

1. Time, Nature, Property Rights: History of the Jhumur Songs in India in Mahua Sarkar ed. Environment and the Adivasi World, Manohar and Alphabet Books, New Delhi, 2017.
2. An Environmental History of North Bengal, in Mahua Sarkar ed. A Collage of Environmental History, Manohar and Alphabet Books, New Delhi, 2017
3. Trade, Religion, Sustainability: Historical Perspectives from Buddhism and Jainism, in AANCEB 2017, India@2030: Sustainable Development Goals and Business Opportunities: Policy, Practice and Path Forward, Alumni Association, NCE Bengal and Jadavpur University, Mumbai Branch.
4. Banglay Islamer Misradharmiyotain Itihaser Pathe Pathe, Aniruddha Roy Felicitation Volume, Progressive Publishers, 2017.

6. Collaborative Programmes:

Collaboration with University Teknologi PETRONAS Kuala Lumpur, Malaysia, as the Coordinator of the UGC DSA-1 SAP, Dept. of History, JU, 2016 to have regular exchange of research programmes. Accordingly, a paper published in the edited volume of DSA, History, J.U., written by three scientists from PETRONAS, 2017.

7. Other Achievements:

1. Served as the Dean, Faculty of Arts, Jadavpur University.
2. Member, Undergraduate Board of Studies, Calcutta University
3. Member, Board of Studies, School of Social Sciences, Jawaharlal Nehru University, New Delhi, 2015-till date.
5. Member, Executive Committee, Institute of Historical Studies, Kolkata,
6. Member, Executive Committee, Paschim Banga Itihas Samsad, Kolkata
7. Member, Doctoral Committee, Examination Committee, Journal Committee Dept. of History, Jadavpur University, 2014 and continuing.
8. Member, Advisory Board for Award of Medals/ Plaques/ Lectureships, the Asiatic Society, Kolkata

Number of Ph.D Awarded—3

Number of PH.D Submitted—1

Number of Ph.D Enrolled—8

Number of M.PHIL Awarded—3

Number of M.Phil Enrolled—2

PROFESSOR RANJAN CHAKRABARTI

At present the Vice Chancellor of Vidyasagar University, Midnapore

PROF. ANURADHA ROY

3. (A) Area of Research Activities:

Intellectual and cultural history with special reference to modern India, deep history

(B) Major Research Project: 191

Editing a volume titled *Kolkata in space, time and imagination* jointly with Melitta Waligora – a joint research project of Humboldt University and JU

4. (A) Invited Lectures Delivered/ Session Chaired:

- i. 'Samajbodher Shabdojabdo' (The problems with terms used for our social understanding), a paper presented at a seminar organized by the Bangiya Itihas Samiti, Kolkata, in honour of Professor Binay Bhushan Chaudhuri at Scottish Church College, on 7 May 2016.
- ii. Talk at workshop on school-level history syllabus organized by Pashchim Banga Itihas Samsad, at IDSK, 25 and 26 June.
- iii. Lecture on Feminism (along with conversation with Annunciacion Carrera de la Red) at Valladolid University, Spain, on 23 September 2016.
- iv. Lecture on feminism and the political situation in India (along with dialogue with Virginia Fucuso), University Carlos III, Madrid, Spain, 26 September 2016
- v. Chaired a session of the birth centenary symposium on Bijan Bhattacharya, the noted thespian, Saitya Akademi, 5 January 2017, Kolkata,
- vi. Chaired the Biplabi Satin Sen Memorial lecture organized by Dept. of History, Jadavpur University in collaboration with Satin Sen Janmashatabarsha Udjapan Samiti, 31 January 2017 (The lecture was delivered by Prof. Sukla Sanyal)
- vii. 'When symbolism becomes a neurological disorder: Nationalism at a critical historical juncture', paper presented at the annual seminar of Dept. of History, JU, on the theme 'Hegemony, Resistance and Cultural Artifacts: India in the late 19th and 20th centuries', held on 7 & 8 March, 2017
- viii) Chaired a session at the annual seminar of Dept. of History, JU, on the theme 'Hegemony, Resistance and Cultural Artifacts: India in the late 19th and 20th centuries', held on 7 & 8 March, 2017. The name of the session: 'Hegemonic constructions and ideological resistance'.
- ix. 'Syllabus'-e Singur', participation in a talk show on the TV channel 24 Ghanta, early September
- x. Participation in a discussion (Neelima Ghosh Dastidar Memorial Lecture) on the theme 'Is the Bengali middle-class mentality facing a crisis?' organized by Boudha Dharmankur Sabha, Kolkata, 28 April 2017.

(B) Seminar/Workshop/Conference/Symposium Attended: Attended a few, but haven't kept record.

5. (A) Articles Published in Journals

- i. 'Boi-er Cheye Boro' (Greater than Books), in *Parikatha* (Special issue on book-reading), September 2016
- ii. 'Asok Sen: Swapna o Sandhan', *Alochanachakra* (Special issue on Asok Sen a noted scholar and distinguished personality in the cultural field of Bengal), January 2017. ISSN: 2231-3990
- iii. 'Samajbodher Shabdojabdo' (A word game in our social consciousness), *Itihaser Boichitrya: Adhyapak Binay Bushan Chaoudhury Sammanana Grantha* edited by Gautam Neogy, Nirban Basu and Soumitra Sreemaji, Bangiya Itihas Samiti, Kolkata, 2017.

Annual Report 2016-17

- iv. 'Agami Prithibi?' (The Future World?- a take on the youth culture that seems to be developing on the basis of a kind of globalization of the mind), *Parikatha*, January, 2017.
- v. 'Madhyabitter Itihas theke Madhyabittatar Itihas: Adhunik Bharater Prekhspace' (From the history of middle-classes to a history of middle-classness: In the context of Modern India), *Itihas Anusandhan* - 31, January 2017 (Address as the sectional president of Modern India at the annual conference of Pashchim Banga Itihas Samsad, January 2016. ISBN978-81-910874-8-2
- vi. 'Singing their way towards a Better World: People's Song Movement in late-Colonial and Early-Independence Bengal', *The Progressive Cultural Movement: A Critical History*, January 2018. ISBN: 978-93-80536-60-6
- vii. 'Bangali Madhyobitto Manasikata ki aaj Biponno?', article in the bimonthly journal *Arekrakam* (edited by Asok Mitra) 1 July, 2017.

6. Collaborative Programmes:

See above: Editing a volume on the city of Calcutta as a joint research-cum-publication project of Humboldt University and JU

7. Major Achievements:

- i. Honorary Visiting Professorship at Institute of Development Studies Kolkata, March – May, 2016
- ii. Visited Hay Festival, Segovia, Spain (23-25 September) as part of the delegation team from India (India was the focal theme of the festival this year), nominated by SahityaAkademi and invited by British Council.
 - a. Participation in a discussion on the linguistic, literary and other diversities of India with Peter Florence (director of Hay festival), Kiran Nagarkar and Sethumadhavan, at Capitular, 23 September 2016
 - b. Conversation with Sethumadhavan and Mar Sancho (Spanish poet) at Palacio Quintanar, 24 September 2016
- iii. Awarded the 'Best researcher Prize' 2017 by Bauddha Dharmankur Sabha, Kolkata

PROF. NUPUR DASGUPTA

2. (A) Area of Research Activities:

Ancient Indian History and Archaeology

Historiography of Ancient India

History of Science, Technology & Medicine

Teaching: UG Courses: 1

- Early History of India up to the Thirteenth Century A.D.

PG Courses: 4

- History of Southeast Asia: Colonial and Post-Colonial Burma, Malaysia and the Philippines.
- Early Indian Political Processes, Institutions and Thoughts.
- Material Culture, Progress and the Intellectual Milieu in Early India.
- Social History of Science and Technology in India: the Pre colonial phase.

M.Phil Courses: 2

- Methodology of Research in Ancient Indian History
- Early History of India: Methods and Interpretations in Research.

Ph.D. Course: 1

- Methodology of Research in Ancient Indian History

Research Supervision: Ph. D

Awarded: 1

Submitted: 1

Ongoing: 4

M. Phil

Ongoing: 1

(B) Research Project:

1. Submitted the Research Project on “Health, hygiene and the inner domain in late 19th to early 20th century Bengal”, funded by UGC – DSA of the Department of History, 2016 – 2017.

4 (A) Invited Lectures Delivered/ Session Chaired:

Invited Lectures Delivered

1. Delivered lectures to the Post Graduate Class in the Department of South and South-East Asian Studies, University of Calcutta on 16th April, 2017. Lecture on: “History of the Philippines: Pre-colonial period, A look into past settings, customs, Practices and Culture.”
2. Delivered lectures to the Post Graduate Class in the Department of South and South-East Asian Studies, University of Calcutta on 28th April, 2017. Lecture on: “Corridors & Borders, Contacts & Communications: The Assam-Myanmar-Yunnan Story.”
3. Delivered the invited endowment lecture: **The Adhir Chakrabarti Memorial Lecture**, Jointly held by the Adhir Chakrabarti Memorial Trust and the Department of Ancient Indian History and Culture, University of Calcutta, on “Inception of Urban Space and Urbanization in early Historic Middle Ganga plain: Perspectives and Problems.”
4. Invited lecture delivered for the Ph. D M.Phil Course on **Research Methodology of Sanskrit Studies**, organized by the Department of Sanskrit, Jadavpur University, 30th September. Paper on: “Sanskrit Literature and History: Issues in Research Methodology.”
5. Invited Resource Person at the Five day Workshop on **History of Science & Technology with special reference to India: Ancient to modern Times**, held between 20th and 21st March, 2017, organized by the Asiatic Society. Delivered a Lecture on “Tracing the Roots of Chemistry in Ancient-Medieval India”, on 22nd March, 2017.

Sessions Chaired:

1. Chaired a session at the UPE II, Phase II programme of India Looking East Seminar on **Lineages of Interactions: India, South-east Asia and east Asia**, Organized by the AIHC, Archaeology and History Departments, CU, On 19th & 20th January, 2017.

(On 19th).

2. Chaired a Session at the International Seminar on **Recent Trends on Environmental History: Narrating Biodiversity Loss in India**, 28th Feb, 2017, organized by the UGC –DSA-1, SAP, Department of History, Jadavpur University.

4. (B) Seminar/Workshop/Conference/Symposium Attended and Papers Presented:

1. Participated in the Two Day National Seminar on **Reconstructing History through museum and living issues of archaeology**, 22nd& 23rd August, 2016. Presented a paper: "Museums and living archaeology: situating the Copper-Bronze Technology of Bengal."
2. Presented a Paper at the Two Day National Workshop on the **Methodology of Ancient Indian History Writing: Epigraphy as a Tool and Source** on 14th& 15th September, 2016 under the DSA Programme of the Department of History, Jadavpur University in collaboration with the Asiatic Society, Kolkata. Paper on "B/ordering the landscape: Spatial Cognition in Epigraphic Records of the Chandellas."
3. Conference on **Environment & Health: Colonial and post-colonial perspective in India**, organised by the Wellcome Trust, Calcutta University Centre, on 13th Sept., 2016. Presented a paper on: "From Hills and Vales to the Bazaar: Survey of the Medicinal plants of South Asia in the early 19th century."
4. UGC sponsored National Seminar on **Situating Sources of Indian History**, organized by Fakir Chand collage, Diamond Harbour in Collaboration with the Corpus Research Institute, Kolkata, held on 23.09.2016. Delivered a paper on "Literary Sources of Ancient India: Articulating Antiquity."
5. Participated in the Eighth Biennial Conference of IAAPS in collaboration with the Department of Geopolitics and International Relations, Manipal University, held between November 20-22, 2016. Presented a paper on "Bazaar Medicine: Encounters between Western Medicine and Indigenous Botanical Drugs in Colonial India."
6. Participated in the UGC sponsored Two Day National Seminar on **India: The Global Action of the Indian Ocean: Perspective and Challenges**, 15th& 16th December, 2016. Organized by Department of History and Political science, The Bhawanipur Education Society Collage, Kolkata, collaboration with IAAPS. Presented a paper on "The Making of British Malaya: Economy, Ethnicity and Nationhood on the Rise of a Colonial World with special reference to the India Diaspora".
7. Participated in the Three Day International Conference on **Towards a New Urban History: Identity and Specialty on Ports of Trade c.100- c.1850**, organized by the Asiatic Society, Kolkata, on 2nd-4th January, 2017. Presented a paper on: "Health concern, Medical Substances and Exchange Network in Early colonial Settlements: Exploring Dimensions of the fledgling Urban Experience in Medical Literature (18th& 19th centuries."
8. Participated in the Three-Day International Seminar on **Persian and Sanskrit as shared Heritage and Cross Cultural & Historical Connection between India, Iran and Central Asia**, organized by Department of Persian Guwahati University in collaboration with the Department of Arabic and Persian, Cotton College, Guwahati, held between 9th to 11th February, 2017. Presented a paper on "Knowledge beyond Boundaries: Transmission of Indian Medical Literature and Interaction with the Perso-

Arabic World”.

9. Participated in the UGC Sponsored International Seminar on **Many Faces of Nationalism and Pluralist Tradition in Indian Subcontinent** organized by the Vidyasagar Centre of Indological Studies, RabindraBharati University, in association with the History Department, RabindraBharati University, on 16th& 17th Feb, 2017. Presented a paper on: “Looking for the Idea of Nation in Ancient India: Exploring Historical Evidence”.
10. Participated in the Two Day National Seminar on **Literature and Inscriptions: texts and Contexts**, UGC, CAS- Sanskrit(Phase II), JU, 21st& 22nd March, 2017. Presented a Paper On “Tracking the crucible: Exploring the Historical Context of an Alchemical Text”, on 21st March, 2017.

4. (C). Seminar / Workshop/ Conference / Symposium Organised:

1. Organized a Two Day National Workshop on the **Methodology of Ancient Indian History Writing: Epigraphy as a Tool and Source** on 14th& 15th September, 2016 under the DSA Programme of the Department of History, Jadavpur University in collaboration with the Asiatic Society, Kolkata.
2. Joint Coordinator Winter School Programme of the Faculty of Arts, Jadavpur University, on **Nation and Higher Education**, from 10th -31st march, 2017.

PUBLICATIONS

1. Book: (edited), *Methodologies of Interpreting the Ancient Past of South Asia: Studies in Material Culture*, Jointly edited with Pranab Kumar Chattopadhyay, Delhi, Sharada Publishing House, 2016. ISBN: 978-93-83221-07-3.

2. Articles

1. “An Obscure Context of Early Rāḍha Bengal: Evidence from Jain Literature”, *Pratna Samiksha*, New Series, Vol-7, 2016, p 1-21., ISSN 22297979.
2. “Varna Pratha: Itihaser Bibaran, Vivartan O Nirman”, Ratnabali Chattopadhyay and Susnata Das, eds., *Itihaser Pathe Pathe*, Professor Aniruddha Ray Felicitation Volume, Kolkata, Progressive Publishers, 2016, p. 138-159, ISBN 978-81-8064-224-1.
3. “Special Ceramics in the Harappan Culture: History of a Technology derived from Archaeological Science”, Nupur Dasgupta and Pranab Kumar Chattopadhyay, eds, *Methodologies of Interpreting the Ancient Past of South Asia: Studies in Material Culture*, Sharada Publishing House, Delhi, 2016, p.127-151.
4. “Faith, Healing and Serpent Goddesses: Exploring the Threshold between the Ritual and the Medical in the Cults of Jāṅguli - Manasā”, *Journal of Bengal Art*, Vol-21, 2016, p.25-36, ISSN 1607-1344.
5. “Of Pleasure, Power and Piety: Uses and Perceptions of Gardens and managed Floral Spaces in Early India”, *Journal of South Asian Studies*, Vol-4, No-3, (2016), 109-122, ISSN: 2307-4000 (online), 2308-7846 (print).

PROF. RUP KUMAR BARMAN

3. (A) **Area of Research Activities:** Modern Indian History, Environmental History, Dalit Studies, Human Rights and International Relations

(B) Major Research Project: Individual

Changing nature of Caste in Post-colonial India: A Study on the Scheduled Caste Communities of West Bengal, Indian Council of Social Science Research, New Delhi (F.No. SC-16/2014-15/ICSSR/RPS Dated: 28th January 2015), Total amount Rs. 190000.00

4. (A) Invited Lectures Delivered/ Session Chaired:

1. Delivered a talk titled Forced Migration and Global Terrorism A Recent Trend UGC-HRDC Orientation Programme, Jadavpur University, Kolkata, on 16th June 2016.

(B) Seminar/Workshop/Conference/Symposium Attended:

1. Paper titled *Problem of identity in Plural Society: Dalit Versus Sub-caste: A Study on the Scheduled Castes communities of West Bengal* will be presented to the International Conference on *Sociology of Religion in A Pluralistic Society from 7/4/2016 to 9/4/2016* to be organized by the Centre for Study of Religion and Society, Jadavpur University, Kolkata in collaboration with the Lancaster University, England.
2. Paper titled *Partition and the Margins: Reflections on the impact of the Partition on the Scheduled Castes of Bengal* presented to the National Seminar on *Partition: Its Trauma and triumph*, 03-04 August 2016, Derozio Memorial College, Kolkata.
3. Paper Titled '*Caste, Sub-caste and electoral mobilization: The Scheduled Castes of West Bengal in assembly elections from 1937 to 2016*' was presented to the International Seminar on Social Stratification and Political Transformation: Rethinking Indian Democracy, Department of Political Science, Bankura University, Bankura, November 10-11, 2016.
4. Paper titled '*Right-Left-Right: The Scheduled Castes in the Assembly elections in West Bengal*' was presented to the International Seminar on 'Hegemony, Resistance, and Cultural Artefacts: India in the late 19th and 20th centuries'. Dated 7-8 March, 2017, Department of History, Jadavpur University,, Kolkata-700032.
5. Paper titled '*Partition, Forced Migration and the hosts: A study on the impact of partition of Bengal (in 1947) on the hosts*' was presented to the UGC sponsored International Seminar on "Partition and its Aftermath: In Retrospect" on 22nd March, 2017, Department of History, Rabindra Bharati University, Kolkata.

5. (A) Articles Published in Journals:

1. 'Yes! The Scheduled Castes Can Write: Reflections on the creative and assertive writings of the Scheduled Castes of Colonial Bengal', *Contemporary Voice of Dalit*, a peer reviewed journal of the Sage Publications, 8(1)2016) 1-15.
2. Dalit Versus Sub-caste : A Study on the problem of identity of the Scheduled Castes of West Bengal, *Journal of People's History and Culture*, Vol.2, No.1 (June 2016), pp.7-18.
3. Barnagata Bahutabad O Bharatiya Samajer Jatpat, *Antarmukh*, Vol.6, No 1, July-September (2016), pp.50-77.
4. *Tribal Identity and the nature: Changing Identity and Nature worship of the Koch-Rajbanshis of Sub-Himalayan Assam and Bengal*" in Mahua Sarkar (ed): *Environment and the Adibashi World*, (Kolkata, Jadavpur University and Alphabet Books, 2017), pp 102-132.

5. From Political Bargaining to electoral Slavery: Reflections on the Political impact of Partition of India on the Scheduled Castes of Bengal, in MahuyaBhaumik and AnjonaChattopadhyay (eds): *Partition: Diverse Dimensions* , (Kolkata , Rachayeeta , 2016), pp.33-60.
6. Right-Left-Right: The Scheduled Castes in the Legislative Assembly Elections in West Bengal from 1952 to 2016, *The Mirror* , ISSN No 2348-9596, Vol-3 (2016), pp 1-16.

7. Major Achievements:

- (i) Member, Board of Studies, Department of History, Raiganj University, Raiganj
- (ii) Member, UG Board of Studies, Netaji Subhas Open University, Kolkata

PROF. KAUSHIK ROY

3. (A) Area of Research Activities: Military History of Asia

4. (B) Seminar/Workshop/Conference/Symposium Attended:

1. From Kut to Mosul: Lessons Learnt by the Indian Army in Mesopotamia, 1914-1918, Paper presented at the Royal Military Academy Sandhurst in The Great War in the Middle East 1911-23 Conference, 20 April 2016.
2. The Colonial Legacy and National Security, paper presented at the conference on The Oxford Handbook of India's National Security held on 22-23 July 2016 at the Center on American and Global Security at Indian University-Bloomington, USA.
3. Colonial Naval Warfare and Present Day Geopolitics, Paper presented at Dilli Seminar, 2016 at INA Ezhimala, Kerala on 13 Oct. 2016.
4. Peasants, Tribes and the Colonial Indian Army, Paper presented at the National Seminar titled Peasants and Tribes in Indian History: Colonial Experiences held at Raiganj University on 16 March 2017.

5. (A) Books/ Monographs etc. Published:

1. *Sepoys against the Rising Sun: The Indian Army in Far East and South-East Asia, 1941-45* (Leiden/Boston: Brill, 2016).
2. Kaushik Roy and Sourish Saha, *Armed Forces and Insurgents in Modern Asia* (London/ New York: Routledge, 2016).
3. *India and World War II: War, Armed Forces, and Society, 1939-45* (New Delhi: Oxford University Press, 2016).

(B) Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

1. 'Indian Society and the Soldier: Will the Twain ever Meet?', in Harsh V. Pant (ed.), *Handbook of Indian Defence Policy: Themes, Structures and Doctrines* (New Delhi/ London/New York: Routledge, 2016), pp. 64-75.
2. 'Artillery of the Army in India in World War I', in Sanders Marble (ed.), *King of Battle: Artillery in World War I* (Leiden/Boston: Brill, 2016), pp. 299-323.
3. 'Religion in the Sepoy Army of British India', in Torkel Brekke and Vladimir Tikhnov (eds.), *Military Chaplaincy in an Era of Religious Pluralism: Military-Religious Nexus in Asia, Europe, and USA* (New Delhi: Oxford University Press, 2017), pp. 185-201.

7. Major Achievements:

Member of INSA Research Council, Global Fellow of Peace research Institute Oslo (PRIO), Norway and referee of various journals and publishing houses Like Oxford University Press, Routledge, *Modern Asian Studies*, *International Area Studies Review*, etc.

PROF. SUBHASIS BISWAS

Dean, Faculty of Arts, Jadavpur University

4. (A) Area of Research Activities:

Environmental History of South Asia

5. (A) Invited Lectures Delivered/ Session Chaired:

1. Chaired a Session in a panel on Adivasi History in an international conference held in Jadavpur University held in Jadavpur in April, 2016.
2. Chaired a Session on 'History of Marginal Communities in South Asia' in the international conference of European Association of Asian Studies held in Poland in July, 2016.
3. Presented a paper and chaired a session in Bi-Annul Conference of Bangladesh Association of Historical Studies held in Dhaka in March, 2017.

(B) Seminar/Workshop/Conference/Symposium Attended:

Attended European Association of Asian Studies conference held in Poland in July, 2016.

(C) Seminar/Workshop/Conference/Symposium Organized:

Organized an international seminar on 'Recent Trends in Environmental History' in the Department of History, Jadavpur University in February, 2017.

(E) Orientation Course/Refresher Course Organized:

Organized an inter-disciplinary Winter School in the Faculty of Arts, Jadavpur University in March, 2017.

6. (B) Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

Paper published on 'Christian Missionaries and the tribal world' in an edited volume by Manjari Basu from Naba Nalanda Mahavidyalaya in 2016.

(C) Articles Published in Edited volume:

1. Paper published on Toto forest identities in a book edited by Prof. Mahua Sarkar titled, 'Environment and the Adivasi World' from Alfabeta Books in 2017.
2. Paper published on Indian Forests: Looking through the European Literary Expressions in a book edited by Prof. Mahua Sarkar titled, 'A Collage of Environmental History' from Alfabeta Books in 2017.

7. Collaborative Programmes:

Principal Investigator of an International Collaborative programme on Global Climate change between University of Patronas, Malaysia and Jadavpur University.

8. Major Achievements:

Teaching Environmental History in Post Graduate Level in two semesters and two special paper on American History.

Ph.D Awarded during 2015-16 2

M.Phil Awarded during 2015-16: 3

M.Phil Awarded during 2016-17: 3

Associate Professors

DR. SUDESHNA BANERJEE

1. Courses Offered in the Department by the Faculty Member during 2016-17

Name of the Course –

- A. Methodology (course at the MPhil/PhD Course Work level)
- B. The 20th Century World: Global Capitalism and its Contestations (course at the master's level)
- C. Economic Changes in Colonial India: North-Eastern India/North-Western India/Southern India/Western India (course at the masters' level)
- D. The Transformation of Europe, 1350-1650 (undergraduate honours course).

2. Duration of the Courses—

- A. July-December semester 2016
- B. July-December 2016
- C. January-July 2017
- D. January-July 2017

3. Research Supervision by the Faculty Member:

PhD supervision completed and degree awarded in 2016: 1 (one)

PhD supervision completed and thesis submitted in March 2017: 1 (one)

PhD supervision (ongoing) in 2016-17: 4 (four)

MPhil supervision ongoing in 2016-17: 1 (one)

4. Area of Research Activities: Social history of modern India with special emphasis on urbanity, domesticity, the environment, women and gender, cultural identities, displacement, marginality and the afterlife of Partition of India.

6. A Invited Lectures Delivered/Chaired :

- i. 'Silence, History, Archives' delivered on 17 April 2016 as a special lecture at the workshop titled 'Cultural Politics, Identities and Gender', organized by the School of Women's Studies, Jadavpur University from 6 to 17 April, 2016.
- ii. Chaired the session titled 'National Science and Colonial Science' at the international seminar on *Hegemony, Resistance, and Cultural Artefacts: India in the late 19th and 20th Centuries* organized by the Department of History, Jadavpur University on 7-8 March 2017.
- iii. Delivered the keynote address at a seminar on *Religion, Society and Feminism in the Twenty-first Century* organized by the Department of History, Loreto College, Kolkata, on 30 January 2017.
- iv. Chaired the 19th Shahid Pritilata Waddedar Memorial Lecture jointly organized by the School of Women's Studies, Jadavpur University and Biplabtirtha Chattagram Smriti Sanstha and delivered by Professor Ritu Sen Chaudhuri on 'Caste-Gender-Sexuality System: A Re-turn to Ambedkar' on 15 March 2017.

B Seminar / Workshop/ Conference Attended / Presented Papers:

Presented a paper entitled 'The mobile threat to the fixed nation: walls, women and wayward vehicles, Calcutta 1880s to the 1940s' at the international seminar on *Hegemony, Resistance, and Cultural Artefacts: India in the late 19th and 20th centuries* organized by the Department of History, Jadavpur University, on 7-8 March, 2017.

D. Refresher Courses /Orientation Courses Attended:

1. Delivered two lectures as resource person at the refresher course on Women's Studies organized by the Academic Staff College, Burdwan University between 1 June and 21 June 2016.

4. A. Books / Monographs etc Published :

1. 'The ideology of the family in Renaissance Europe', in Anuradha Chatterjee, Suparna Ghosh and Srijita Chakravarty (eds.), *Rethinking the Renaissance*, Loreto College, Kolkata, 2017, ISBN 81-85861-59-52, pp. 165-179.
2. 'Muck on the Milky Way: Bengali Middle Class "Frailty" and the Social Life of Milk', Calcutta 1914 – 47' accepted for publication in Suvabrata Sarkar and Sudit Krishna Kumar (eds.), *Contextualizing Body: The Indian Experience*, Manohar (forthcoming).
3. 'Placed on the Margins: "old men" in the afterlife of Partition of India', accepted for publication in Joya Chatterji and Tanika Sarkar (ed.) volume (title yet to be decided)

6. Major Achievements:

1. Refereed one manuscript for Oxford University Press, New Delhi.
2. Continued serving as member of the Academic Committee of the School of Women's Studies, Jadavpur University.
3. Continued serving as member of the Academic Committee of the School of International Relations and Strategic Studies, Jadavpur University.
4. Continued serving as member of the Academic Committee of the School of Media Communication and Culture, Jadavpur University.

Assistant Professors

DR. SUCHETANA CHATTOPADHYAY (senior grade)

3. (A) Area of Research Activities:

Urban Social History, Communism in India, Imperial Surveillance, Bengal Muslims, Sikh Political Diaspora in Bengal

4. (A) Invited Lectures Delivered:

(Name of the Teacher, Type of Participants, Name of the Seminar/Conference etc., Place, Duration)
Suchetana Chattopadhyay (speaker), 'Revolutionary Longings' (A Conference on the Centenary of the Bolshevik Revolution), Eisenberg Institute of Historical Studies, University of Michigan, Ann Arbor, USA, 8-11 March 2017.

(B) Seminar/Workshop/Conference/Symposium Attended:

Suchetana Chattopadhyay (speaker), 'Muhajirs to Bolsheviks: 1917 and Early Communists from India in Central Asia' (title of paper), 'Revolutionary Longings' (A Conference on the Centenary of the Bolshevik Revolution), Eisenberg Institute of

Historical Studies, University of Michigan, Ann Arbor, USA, 8-11 March 2017.

(C) Seminar/Workshop/Conference/Symposium Organized:

Suchetana Chattopadhyay (co-organized with Abdul Kafi), Seminar lecture at Centre for Marxian Studies, JU by Professor Vijay Prashad, 'Where do terrorists come from?', Anita Banerjee Memorial Hall, UG Arts Building, JU, 8 July 2016.

5. (B) Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

Suchetana Chattopadhyay, 'Jihad at wartime?', *South Asian History and Culture*, April 2016, Volume 7, Number 2.

Suchetana Chattopadhyay, 'Being Naren Bhattacharji', *Communist Histories*, July 2016, Volume 1.

Suchetana Chattopadhyay, 'Closely observed ships', *South Asian Diaspora*, September 2016, Volume 8, Number 2.

DR. MAROONA MURMU : Assistant Professor

(A) Area of Research Activities: Socio-cultural history of Modern South Asia, Gender Studies

3. (A) Invited Lectures Delivered/ Session Chaired:

- Presented a paper titled 'Dr. B.R. Ambedkar's Role in Women's Empowerment' in the National Seminar on Prabuddha Bharat: Understanding Dr. B.R. Ambedkar in the Passage of Time organized by The Asiatic Society, Kolkata, 26-27, August, 2017
- Resource Person for UGC Sponsored Short Term course on Positive Discrimination organized by BarrackporeRashtraguruSurendranath College, 28-29 September, 2016
- Presented a paper titled 'Literary Reception of Women Writers in "Renaissance Bengal" in the National Seminar on "Off the Mark": Marginality, Narratives, and Reclaiming History, Sidho-Kanho-Birsha University, Purulia, 7-8 December, 2016.
- Invited Speaker for Professor Abdul Wahab Mahmud Memorial Lecture on 'Bharatiya Itihas O Rajnitite Jati-BarnaSamikaran' organized by Paschimbanga Itihas Samsad, Basanti Devi College, 25 January, 2017.

(C) Seminar/Workshop/Conference/Symposium Organized:

Coordinator of the International Seminar on Hegemony, Resistance and Cultural Artefacts: India in the Late 19th and 20th centuries, Department of History, Jadavpur University, 7-8 March, 2017

(B) Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

- 'Dr. Bhimrao Ramji Ambedkarer Samajik O Rajnaitik Chintadhara', *Neer*, (August 2016), Volume 17: 73-77.

DR. TILOTTAMA MUKHERJEE : Assistant Professor

3. Area of Research Activities:

Medieval Indian History especially eighteenth-century Bengal

4. A. Seminar/Workshop/Conference/Symposium Attended:

'Chronicling Cities: early modern Eastern India', paper presented at the Fifth Annual Conference of the Loyola Forum for Historical Research on 'Urbanisation and Environment', *Loyola College*, Chennai, 21-22nd July 2016.

B. Orientation Course/Refresher Course Attended:

Participated in *one week workshop* on 'Research Methods in International Relations and other Social Sciences' organised by The Jadavpur Association of International Relations (JAIR) and School of International Relations and Strategic Studies, Jadavpur University, 8th August to 17th August, 2016.

5. Articles Published in Journals:

'Travel and Economy in Early Modern Bengal' (in Japanese), *Mita Gakkai Zasshi (Mita Journal of Economics)*, Keio Economic Society, Keio University, Japan, Vol. 109, No. 3, October 2016, pp. 31-76. [Print ISSN: 0026-6760]

Research Supervision:

Total No. of M.Phil. (April 2016-March 2017): 2 awarded.

PhD Supervision (April 2016-March 2017): 3 ongoing; 1 submitted.

DR. CHANDRANI BANERJEE MUKHERJEE : Assistant Professor

(A) Area of Research Activities: Ancient Indian Social History, Womens'History, Ancient Indian Environmental History.

(B) Major Research Project:

3. (A) Invited Lectures Delivered/ Session Chaired:

Delivered a lecture on the "Gandhara School of Art" on 30th July, 2016 at Prafulla Chandra College (formerly South City Evening College), Kolkata.

(B) Seminar/Workshop/Conference/Symposium Attended:

1. Participated in the International Seminar on Sculptural Art of India: Intra /Inter Asian Linkages of the Centenary celebrations of the Dept. of Ancient Indian History & Culture, University of Calcutta on 11th February, 2017
2. Presented a paper on "Some Geographical Units of Varanasi as depicted in the Gahadavala Epigraphical Records" in the Workshop on Research Methodology of Ancient Indian History Writing :Epigraphy as a tool and source held under the auspices of The Asiatic Society, and In Collaboration with UGC DSA Programme, Department of History, Jadavpur University on 14th -15th September, 2016.

4. Seminar/Workshop/Conference/Symposium Organized:

1. Organised a two day Workshop jointly with Prof. Nupur Dasgupta, Professor, Dept. of History, JU on "Research Methodology of Ancient Indian History Writing :Epigraphy as a tool and source" held under the auspices of The Asiatic Society in collaboration with the UGC DSA Programme, Department of History, Jadavpur University on 14th -15th September, 2016.
2. Organised the Jadunath Sarkar Memorial Lecture, 2017 at the Dept. of History in collaboration with the Bangiyaltihaas Samiti on 23rd February, 2017. The speaker was Prof. Harbans Mukhia.

5. (A) Orientation Course/Refresher Course Attended:

Attended the UGC sponsored Special Winter School titled as "Nation and Higher Education" at Jadavpur University, Kolkata from 10th March, 2017 to 31st March, 2017

(B) Books/ Monographs etc. Published:

(Name of the Teacher, Name of the Book, Name of the Publisher)

Published an article on “the Social Ecology of the Gahadavalas of Varanasi: An Epigraphical Study” in the book titled as A Collage of Environmental History, ed. By Prof. Mahua Sarkar, published by Jadavpur University, Kolkata & Alphabet Books.

8. Major Achievements:

Examined a dissertation for the Degree of Master of Philosophy at the Dept. of Ancient Indian History & Culture, University of Calcutta.

One Ph. D submitted (Joint Supervision with Prof. Nupur Dasgupta)

DR. SAMARPITA MITRA : Assistant Professor

3. Area of Research: Social and Cultural Histories of South Asia, Histories of Print, Publishing, Authorship and Reading

DR. DEBAJIT DUTTA : Assistant Professor

3. (A) Area of Research Activities:

Ancient Indian History, Monetary History of South Asia, North-East Indian History.

(B) Research Project:

‘*Conservation and Management of Tanks of Cooch Behar Town: An Environmental Perspective*’, A Minor Research Project supported by UGC-SAP, DSA-1, 2016-17, Department of History, JU.

(B) Seminar/Workshop/Conference/Symposium Attended:

1. ‘*Koch-Ahom Political Relations, 1498-1665: A Re-visit*’ Paper presented in the 37th Session of the North East India History Association (NEIHA) held at Sikkim Government College, Tadong, Gangtok, Sikkim from 10 to 12 November, 2016.
2. ‘*Changing Demographic Profile of the Cooch Behar Town: An Ecological Perspective*’ Paper presented in a National Seminar on Changing Demographic Scenario in Colonial and Post-Colonial North Bengal-North East India at Bakshirhat Mahavidyalaya, Cooch Behar held on 07-08, February, 2017.
3. Participated in two-day National Workshop on ‘*Research Methodology of Ancient Indian History Writing: Epigraphy as a Tool and Source*’ organized by the UGC DSA, Department Of History JU in collaboration with The Asiatic Society, Kolkata, held on 14th and 15th September, 2016.
4. Participated in the International Seminar on ‘*Recent Trends in Environmental History: Narrating Biodiversity Loss in India*’, organized by UGC DSA, Department Of History JU, held on 28th February, 2017.

(D) Orientation Course/Refresher Course Attended:

Participated in the 27th Orientation Programme from July 27, 2016 to August 24, 2016, organized by UGC-HRDC, University of North Bengal and obtained grade A.

5. (B) Articles Published in Journals:

‘*Money as Metaphor of Sovereign Power: Medieval North-East Indian Context*’, paper published in Proceedings of the Indian History Congress, 76th Session of Indian History Congress, held at University of Gourbanga, Malda.

7. Major Achievements:

Awarded Doctor of Philosophy in History by University of North Bengal.

Research Supervision: 2 PhD (Ongoing)

DR. UTSA RAY : Assistant Professor

3. (A) Area of Research Activities:

Colonial and post-colonial South Asia, histories of consumption, class formation

4. (A) Invited Lectures Delivered/ Session Chaired:

Panelist for discussion of Jasodhara Bagchi's book *Interrogating Motherhood* (8 March, 2017)

(B) Seminar/Workshop/Conference/Symposium Attended:

Participated in the two-day international seminar on 'Hegemony, Resistance and Cultural Artefacts: India in the late 19th and 20th centuries', organized by the Department of History, Jadavpur University on 7-8 March, 2017, at Jadavpur University.

(C) Seminar/Workshop/Conference/Symposium Organized:

Organized A.C. Banerjee Memorial Lecture, Department of History, Jadavpur University, March 2017. It was a one day lecture given by Professor Gautam Bhadra.

(D) Orientation Course/Refresher Course Attended:

Special Winter School, 2017, titled 'Nation and Higher Education', March 10th-March 31st, 2017.

- 5. (A) Books/ Monographs etc. Published:** "The Cosmopolitan Roots of colonial India's Bourgeoisie" in *The Global Bourgeoisie: The Rise of the Middle Classes in the Age of Empire*, edited by Christof Dejung, Jurgen Osterhammel and David Motadel (forthcoming from Princeton University Press).

INTERNATIONAL RELATIONS

Phone & Fax : + 91-33-2414-6344

Int. : 2457-2059/2229

H.O.D : Dr. Kakoli Sengupta

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hod.ir@jadavpuruniversity.in,

The Department of International Relations was established in 1956 as a result of the efforts of Professor Prithwish Chakraborty, an eminent Professor of International Relations, and Professor Triguna Sen, the then Vice-Chancellor of Jadavpur University, to promote the study of international affairs in a holistic manner. The Department is the only one of its kind in Eastern India. It has received UGC funding under three phases of the Department Special Assistance (DSA) programme that started in 1986, which has enabled the Department to build up its infrastructure and hold national and international conferences, student seminars, and enabled the faculty to conduct field trips to facilitate their research activities. The Department also received assistance from the UGC's ASIASS programme in 2004-5, which further helped in

infrastructure building and research pursuits. In 2009, the Department has been upgraded to the status of a Centre for Advanced Study (CAS) by the UGC and is now pursuing its second phase. The Department annually publishes *The Jadaupur Journal of International Relations*, which has been taken over by SAGE Publications since 2014. The Department houses the Centre for Refugee Studies that focuses on refugee, migration, and international displacement issues. The Department also conducts a one year PG Diploma Course (Evening) on Human Rights and Duties Education, the objective of which is to enhance knowledge and understanding of human rights and promote human rights awareness.

1. A. Courses Offered: (Name of the Course, Duration of the Course, No of Students Enrolled)

B.A. in Political Science (Hons.)	3 year	187
M.A. in Political Science with International Relations	2 year	134
M. Phil. in International Relations	2 year	36
Ph.D.	5 year	60

1. B. Number of Faculty Members: 17

Professors	10
Associate Professors	2
Assistant Professors	5

2. A. Area of Research Activities: (Broad Areas)

While the Department remains committed to facilitating high quality research in diverse frontiers of international relations, its curriculum, both at the undergraduate and postgraduate levels, accommodates the major areas of Political Science as well.

The Department's **research activities** include foreign policy and relations, conventional and non-traditional security issues, arms control, peace and conflict studies, international economic issues, international law, regional integration, ethnicity, gender, human rights, media and politics, democracy, development, diaspora, nationalism, terrorism and insurgency, refugee and migration issues, environmental issues, and International Relations theory.

Area Studies: South Asia, Southeast Asia, Asia Pacific, United States, Russia, European Union, West and Central Asia.

Areas of Specialization of faculty members-

1. Prof. Gautam Kumar Basu (on lien) – Theory building in International Relations, International Political Economy, US Foreign Policy.
2. Prof. Rabindra Sen- South East Asia and Asia Pacific
3. Prof. Omprakash Mishra- Security, Human Rights, Forced Migration (Area: South Asia)
4. Prof. Sumita Sen - International Law, Maritime Law and Policy, Human Rights, Environment and Development, Gender, Conflict and Peace Issues, South & Southeast Asia
5. Prof. Tridib Chakraborti-Southeast Asia: Politics, Economics, Foreign Policy and Security Issues; Asia-Pacific: Indian Foreign Policy; International Economic Issues; Indian Political Thought; Diaspora, Ethnic Issues, Terrorism, Environmental Issues in Southeast Asia.
6. Prof. Partha Pratim Basu-Political Economy, Indian Foreign Policy, Media and Politics/ International Relations; South Asia (Pakistan, Afghanistan and Bangladesh); Human Rights.

Annual Report 2016-17

7. Prof. Anuradha Mukherjee – French Language
8. Prof. Anindya Jyoti Majumdar - Security & Peace Studies, Forced Migration, Foreign Policy
9. Prof. Shibashis Chatterjee - International Relations Theory, Indian Foreign Policy
10. Prof. Kanak Sarkar - Ethnicity, Identity, Development in South Asian Region
11. Ms. Rochana Das - South Asia, Government and Politics of India, Ethnicity, Indian Administration, Politics of Northeast India, Terrorism
12. Dr. Kakoli Sengupta - Security, Peace Studies, Study of Terrorism & Counter-Terrorism, Conflict Resolution, Europe (Security), Irish (Northern Ireland) Politics and Security, Gender.
13. Dr. Imankalyan Lahiri - Southeast Asia-Culture, Society, Economy, Malaysian Politics, Globalization, Neo-Islam, Conflict Resolution.
14. Dr. H. N. Toppo- Security, Non-conventional Security, Security Organizations, NATO, SCO, CSTO, etc. Globalization, Russia, Central Asia, Eastern Europe (Eurasian Studies).
15. Dr. Bijaya Kumar Das - Russia, Central Asia, Diplomacy and Foreign Policy
16. Dr. Kaushik Sen - South Asian studies with special reference to economic liberalization, foreign economic policy and development in South Asian states, Globalization and Development
17. Dr. Bhagaban Behera - Security, Foreign Policy, Terrorism, Human Rights, Religion and Politics in Central Asia, Russia, Society and Politics of West Asia, International Organization, Western Political Thought.

2. B. Major Research Project:

(Departmental/Individual, Name of the Project/Funding Agency)

PROF. SHIBASHIS CHATTERJEE

Project titled “Subalternity, Nation and the International: Ethnographic Evidence from West Bengal” as part of a collective ICSSR project on “Re-working the Knowledge Structures in International Relations: Some Indian Contributions.” (Individual Project Value: Rs. 200000.00)

DR. IMAN KALYAN LAHIRI

Project titled “Education as a Social Security Measures in the Tea Gardens of North Bengal and North East India”, UGC-UPE-II, University Grants Commission-On going Ongoing Project on Swayng siddha-A Project on Anti-Trafficking, UNICEF

3. A. Invited Lectures Delivered/Sessions Chaired:

(Name of the Teacher, Type of Participants, Name of the Seminar / Conference etc. Place, Duration)

PROF. OMPRAKASH MISHRA

Paper titled “United Nations and Regionalism” in the seminar on *Regionalism in International Relations: Contours and Trends* organized by the Department of International Relations under UGC-CAS-II Programme on March 14, 2017.

Paper titled “External Powers in South Asia” (with Srirupa Mukherjee) at a seminar

on *Contemporary South Asia*, organized by the School of International Relations and Strategic Studies, Jadavpur University and Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata, Jadavpur University, March 21, 2017.

PROF. SUMITA SEN

Lecture delivered on *Democracy and Human Rights* at Vivekananda College for Women, Kolkata, April 2016

Lecture delivered on *Human Rights and the World Order* at Seth Surajmal Jalan College for Girls, Kolkata, September 2016

Lectures delivered on Human Rights Regime for the PG Diploma Course on Human Rights and Duties Education, Department of International Relations, Jadavpur University, Kolkata, July, 2016

Delivered lectures as Visiting Professor to the PG II students on International Relations, Department of Political Science, University of Calcutta (July-March 2017)

PROF. PARTHA PRATIM BASU

Delivered SYLFF lecture on 'Discourse Analysis' at Jadavpur University on 26 April, 2016.

Chaired two lectures delivered by Dr. Sumit Ray and Dr. Saurabh Dutta Chaudhury organized by School of International Relations and Strategic Studies, Jadavpur University on 25 July 2017.

Delivered a lecture on 'Comparative Method' at the seven-day workshop on 'Research Methods in International Relations' organized by School of International Relations and Strategic Studies, Jadavpur University and Jadavpur Association of International Relations, Kolkata at Jadavpur University on 8 August 2016.

Chaired a lecture delivered by Prof. Amiya Bagchi on 'From Neo-liberalism to Fascism: An Era of Intolerance' organized by Historical Materialists, on 15 September 2016 at Jadavpur University.

Chaired a session in the Seminar on 'India and China in the Emerging Asian Domain: the Road Ahead' organized by Netaji Institute for Asian Studies, School Chinese Language, Kolkata and H P Biswas India China Cultural Study Centre Jadavpur University, on 23 September at Jadavpur University on 23 September 2016.

Delivered an Extension Lecture on 'India-Pakistan Relations' in the Dept. of Political Science, Diamond Harbour University (for Women) on 24 November 2016.

Delivered four Extension Lectures on 'Political Theory' to the postgraduate students of Dept. of Political Science, Lady Brabourne College, Kolkata in December 2016.

Chaired a Special Session in the 'The BCIM Initiative and India's "Act East" Policy: A Reality Check' organized by the Kolkata Society for Asian Studies, Institute of Foreign Policy Studies University of Calcutta, Indian Council of World Affairs, New Delhi, at University of Calcutta, 12 January 2017.

Delivered four lectures in the PG Diploma (Evening) Course on Human Rights in January (11, 13, 17, 28) 2017.

Acted as Discussant during release of the ORF Report titled *Indian Media's Perception of China: Analysis of Editorials* at Observer Research Foundation, Kolkata, on 4 February 2017.

Annual Report 2016-17

Delivered a lecture on 'Afghanistan' in the 'International Understanding for Human Unity' Course at Ramakrishna Mission, Gol Park, Kolkata on 7 February 2017.

Chaired a session in the Annual Conference of West Bengal Political Science Association at RabindraBharati University, Kolkata on 5 March 2017.

Chaired a session in National Seminar on 'Regionalism in International Relations' organized by CAS Programme, Dept. of International Relations, Jadavpur University, during 14-15 March 2017.

Chaired a session in the National Seminar on 'Sustenance and Development in Tea Gardens of Northeast India and North Bengal' organized under UGC-UPE Programme of 'Cultural Resources and Social Science' Jadavpur University on 28 March 2017.

Presented a paper titled 'India and the SAARC' at a National Seminar on *India and Her Neighbours: History and the Present Scenario* organized by Dept. of Political Science, PN Das College, Palta, N 24 Parganas, on 20 September 2016.

Presented a paper titled 'Politics of Water-sharing: Some South Asian Cases' in the Seminar on *Contemporary South Asia* organized by School of International Relations and Strategic Studies, Jadavpur University and Maulana Abul Kalam Azad Institute of Asian Studies (MAKAIAS), Kolkata on 21 March 2017.

PROF. ANINDYA JYOTI MAJUMDAR

Presented a paper titled 'Power Rivalry in the Indian Ocean Region' in Seminar on *India: the Global Actor in Indian Ocean* on December 15, 2016 at Bhawanipur Education Society College, Kolkata.

Presented a paper titled 'Regionalism in the Quest for Security' in the National Seminar on *Regionalism in International Relations: Contours and Trends*, March 15, 2017, Department of International Relations, Jadavpur University.

Presented a paper titled 'A Geopolitical Narrative of South Asia' in the Seminar on *Contemporary South Asia* organized by School of International Relations and Strategic Studies, Jadavpur University and MaulanaAbulKalam Azad Institute of Asian Studies (MAKAIAS), Kolkata on 21 March 2017.

Seminar Address on the theme of '*Coalition Politics and Federal System in India*' on December 8, 2016 at Sripat Singh College, Jiaganj, Murshidabad.

Delivered Key-note Address in the International Seminar on '*India-China and the Present World Order*' on November 24, 2016 at International Management Institute, Kolkata.

Delivered lecture on 'India as an Emerging Power in Post- Cold War Era' on August 26, 2016 at Thakurpukur Vivekananda College, Kolkata.

Delivered special lecture on 'India's Foreign Policy: Continuity and Change' on September 28, 2016 at the Students' Seminar, SIRSS, JadavpurUniversity

Delivered a lecture and Released a Report on 'India-Bangladesh Connectivity: A Year after Modi's Visit' on July 9, 2016 at the Observer Research Foundation, Kolkata.

Delivered lecture on 'Arms Control: Logic and Reality' on February 10, 2017 at Ramakrishna Mission Institute of Culture, Kolkata.

Delivered lecture in Interdisciplinary Winter School on 'Nation and Higher Education' on March 20, 2017, Jadavpur University.

Delivered lecture on 'India-China Relations: Recent Trends' on March 29, 2017 at Gokhale Memorial Girls' College, Kolkata.

Chaired a session in National Seminar on '*Sustenance and Development in the Tea Gardens of Northeast India and North Bengal*' on March 28, 2017, organized under UPE-II Programme, Jadavpur University.

Chaired a session in International Seminar on '*India and China in Emerging Asian Domain: The Road Ahead*' on September 22, 2016, HP Biswas India-China Cultural Study Centre, Jadavpur University.

Chaired a session in International Conference on '*New Indian Migrants and Indentured Diaspora: Emerging Opportunity for India's Foreign Policy*' on November 3, 2016, CSIRD, IFPS, Calcutta University.

PROF. SHIBASHIS CHATTERJEE

Presented a paper titled 'Power, Commerce and Community: India's Spatial Imagination/s of South Asia' as part of the South Asian Studies Colloquium Series | Spring 2017, Yale University, on January 26, 2017.

Presented a paper titled 'Foreign Policy as 'space-making': Northeast India in and the Look/Act East Policy', MacMillan Center Fellow's Seminar, December 8, 2016.

Presented a paper titled "Regions': Power, Culture, Governance and Reflexivity' at a National Seminar on *Regionalism in International Relations: Contours and Trends* organized by the Department of International Relations under UGC-CAS-II Programme on March 14, 2017.

Presented a paper titled 'Realism sans transformation: Making sense of India's imaginations of South Asia' presented at a Seminar on *Contemporary South Asia*, organized by the School of International Relations and Strategic Studies, Jadavpur University and Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata, Jadavpur University, March 21, 2017.

Delivered a lecture on 'Sovereignty and Borders in South Asia' at Soka University, Los Angeles, USA, on January 17, 2017.

Delivered four lectures at the PG Diploma Program on *Human Rights and Duties Education*, organized by the Department of International Relations, Jadavpur University, in March, 2017.

PROF. KANAK CHANDRA SARKAR

Delivered a series of invited lectures at the Department of Government and Politics, Jahangirnagar University, Bangladesh, March 21-24, 2017.

DR. KAKOLI SENGUPTA

Delivered an Invited Lecture on 'International Women's Day' organized by Rotary Club of Calcutta Metropolitan East, held on 8 March, 2017.

Delivered two lectures at the PG Diploma Course on Human Rights and Duties Education, organized by the Department of International Relations, Jadavpur University in March 2017.

Presented a paper titled 'A Post-Brexit World: Lessons for South Asia' on 21 March,

2017 in the Seminar on Contemporary South Asia jointly organized by the School of International Relations and Strategic Studies, Jadavpur University and Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata and held in the Vivekananda Hall, Jadavpur University.

Acted as Discussant during Roundtable on 'Implications of Brexit' with Professors of Hull University, UK organized jointly by the Department of International Relations and the School of International Relations and Strategic Studies, Jadavpur University on 20 September, 2016 at Committee Room 1, Jadavpur University.

DR. IMAN KALYAN LAHIRI

Acted as Guest Faculty for the M.A. programme in International Studies at Symbiosis School of International Studies (SSIS), Pune for Semester I, 13th and 14th of October, 2016.

Lectures delivered for the students of Post Graduate Diploma in Human Rights and Post Graduate Diploma in International Studies, Department of Civics and Politics, University of Mumbai, 8th and 9th October, 2016.

Lectures Delivered on Developments in India-Nepal and India Bhutan Relations, 27th August, 2016, 29th August, 2016, 11th July, 2016, 16th July, 2016, SSB, Ministry of Home Affairs, Government of India.

Paper titled "*Language Does not Change at the Border , but Politics does*", delivered at the International Conference on Borders and Border Studies ,South Asian University, New Delhi, 6th -7th March, 2017.

DR. HERKAN NEADAN TOPPO

Presented paper on 'Russia and NATO Relations: Approaches and Apprehensions of Russian Foreign Policy' in the International Conference on 'Twenty Five Years of Post -Soviet Experience: Perspective on Nation Building and Democratisation in Eurasia', held from 2- 4 November, 2016, organized by the Center for Russian & Central Asian Studies, School of International Studies, Jawaharlal Nehru University, New Delhi, INDIA

Presented paper on 'Politics of Identity Construction Among the Tribals of Chotanagpur: A Theoretical Understanding' in the international conference on "Sociology of Religion in a Pluralistic Society", held from 7-9 April, 2016, organized by Centre for the Study of Religion and Society, Department of Sociology, Jadavpur University in collaboration with Lancaster University (UK) at Anita Banerjee Memorial Hall, Jadavpur University, Kolkata, India.

Participated in an Indian Council of Social Science Research (Eastern Regional Center) supported 7 Day Workshop from August 8 – 17, 2016 on 'Research Methods in International Relations and other Social Sciences' organized by the School of International Relations and Strategic Studies, Jadavpur University in collaboration with Jadavpur Association of International Relations, Kolkata.

DR. BIJAYA KUMAR DAS

Presented a paper on 'Whose Backyard? Russia and China in Central Asia' in the three day International Conference on 'Twenty Five Years of Post- Soviet Experience: Perspectives on Nation Building and Democratization in Eurasia', held on 2-4 November, 2016, organized by the Centre for Russian & Central Asian Studies, School of

International Studies, Jawaharlal Nehru University, New Delhi, India.

Presented a paper on 'Quest for Social Justice and Caste Politics in India' in the two days international seminar on "Social Stratification and Political Transformation: Rethinking Indian Democracy", held on 10th-11th November, 2016, organized by the Department of Political Science, Bankura University in collaboration with Indian Council of Social Science Research(ICSSR),New Delhi.

Presented a paper on 'Conducting Research in the field of International Relations through the medium of mother tongue: challenges ahead', in the UGC sponsored International Seminar on " Higher Education through Mother-Tongue: Problem and Prospects" on 7th and 8th March 2017, organized by the Department of Education, Jadavpur University jointly with Byanjanbarna Foundations, Kolkata.

DR. BHAGABAN BEHERA

Presented paper on 'Formation of the Eurasian Economic Union and Its Impact on India', in the International Seminar on "Twenty Five Years of Post Soviet Experience: Perspectives on Nation Building and Democratization in Eurasia", 2-4 November 2016, organized by Centre for Russian and Central Asian Studies, School of International Studies, JNU, New Delhi.

Presented paper on 'The Eurasian Economic Union: Process, Promise and Pitfalls' in the National Seminar on "Regionalism in International Relations: Contours and Trends", 14-15 March 2017, organized by the Department of International Relations, Jadavpur University, Kolkata.

3. C. Seminar/Workshop/Conference/Symposium Organized:

(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

PROF. OM PRAKASH MISHRA

Acted as Joint-Convener of a National Seminar on 'Regionalism in International Relations' organized under CAS II Programme, Dept. of International Relations, Jadavpur University,14-15 March 2017.

PROF. PARTHA PRATIM BASU

Acted as Joint Convener of a National Seminar on 'Regionalism in International Relations' organized under CAS II Programme, Dept. of International Relations, Jadavpur University,14-15 March 2017.

Acted as Coordinator of a seven-day Workshop on 'Research Methods in International Relations' organized by School of International Relations and Strategic Studies, Jadavpur University and Jadavpur Association of International Relations, Kolkata, during 8-17 August 2016, at Jadavpur University.

PROF. KANAK CHANDRA SARKAR

Organized a visit for the students of the Department of International Relations to the West Bengal Legislative Assembly and attended the Assembly, Monsoon Session on June 22, 2016.

Organized a lecture by the US Consul General, Mr Craeig Hall on *The US-India Relations*

at Department of International Relations on 12 July 2016.

DR. KAKOLI SENGUPTA

Roundtable with Professors of Hull University, UK on 'Implications of Brexit' organized jointly by the Department of International Relations and the School of International Relations and Strategic Studies, Jadavpur University on 20 September 2016, at Committee Room 1, Jadavpur University.

Convener of the International Relations Scholastic Conclave 2016, organized by the Department of International Relations, Jadavpur University in collaboration with the Bhawanipur Education Society College, Kolkata, on 22 and 23 September, 2016 on the theme 'Transnational Security Issues in the Contemporary World', held at the H.L.Roy Auditorium, K.P. Basu Memorial Hall and the Department of International Relations Seminar Hall, Jadavpur University.

Lecture on 'India-Afghanistan Relations: Challenges and Opportunities' by Mr.NazirKabiri, Advisor to the Minister, Ministry of Finance, Islamic Republic of Afghanistan on 5 January, 2017 in the Seminar Hall of the Department of International Relations, Jadavpur University.

The 4th Biennial Anil Sarkar Memorial Lecture by Professor Aswini K.Ray on 'Indo-Pak Relations: State and People in the Context of Present Turmoils' organized by the Netaji Institute for Asian Studies in collaboration with the Department of International Relations, on 6 January, 2017, in the IR Seminar Hall, Jadavpur University.

Seminar on Human Rights on the theme 'Stand Up for the Rights of Others' organized by the Department of International Relations, Jadavpur University in collaboration with United Nations Information Centre for India and Bhutan, New Delhi, West Bengal Federation of United Nations Association and Netaji Institute for Asian Studies, Kolkata, on 10 January 2017, at TEQIP Building, Jadavpur University.

Lecture on 'Political Responsibility and Leadership in a Globalised Fractured World' by Professor Richard Beardsworth, Director of Research and Deputy Head, Department of Politics, Aberystwyth University, on 2 February, 2017, organized by the British Council, in collaboration with the Department of International Relations, in the Seminar Hall of the Department of International Relations.

Lecture Discussion on 'Perilous Interventions- The Security Council and the Politics of Chaos' on 3 February, 2017 by Hardeep Singh Puri, India's former Permanent Representative at the United Nations in the Seminar Hall of the Department of International Relations, Jadavpur University.

Lecture by Dr. Shailendra Raj Mehta, Distinguished Professor of Strategy, Acting Vice Chancellor and Chairman of the Board of Management, Auro University, Surat on 'Free Speech and Academic Freedom in India and in the West' on 9th February, 2017 at the Anita Banerjee Memorial Hall, jointly organized by the School of Cultural Texts and Records, Department of English and Department of International Relations, Jadavpur University.

Lecture on 'Challenges of Indian Foreign Policy' by Shri M.K. Narayanan, Former Governor of West Bengal and former Chancellor of Jadavpur University, on 3 March, 2017 in the K.P.Basu Memorial Hall, Jadavpur University.

Roundtable Discussion with the British Deputy High Commission led by the British Deputy High Commissioner in Kolkata, Mr Bruce Bucknell, on 22 March, 2017 held in the Department of International Relations Seminar Hall, Jadavpur University.

DR. IMAN KALYAN LAHIRI

Organized a National Seminar on India in the 21st Century: Governance and Foreign Policy Imperatives, 19th and 20th December, 2016 organized by JAIR and Department of Civics and Politics, Mumbai University, supported by Indian Council of World Affairs (ICWA), New Delhi.

- 3. D. Orientation Courses/ Refresher Courses Attended:** (Name of the Teachers, Title of the Course, Duration, Place)

DR. HERKAN NEADAN TOPPO

Participated in an Indian Council of Social Science Research (Eastern Regional Center) supported 7 Day Workshop on 'Research Methods in International Relations and other Social Sciences' (August 8 to August 17, 2016) organized by the School of International Relations and Strategic Studies, Jadavpur University in collaboration with Jadavpur Association of International Relations, Kolkata.

DR. BHAGABAN BEHERA

Participated in the 62nd Orientation Program which was conducted by UGC-Human Resource Development Centre, Salt Lake Campus, Jadavpur University, August 29 - September 27, 2016.

- 4. A. Books/Monographs etc. Published :** (Name of the Teacher, Name of the Book, Name of the Publisher)

PROF. SUMITA SEN

'Environmental Sustainability as a Positive Livelihood Outcome', published in edited book on Environment and the Adivasi World, Alfabeta Books and Jadavpur University, March 2017.

PROF. ANINDYA JYOTI MAJUMDAR

'Innate Security Contest in the Emerging India Theme' in Rajkumar Kothari and Eyasin Khan (eds), *India Becoming a Global Power in the Twenty-first Century: Rising Challenges and Newer Opportunities*, Atlantic, New Delhi, 2017.

PROF. SHIBASHIS CHATTERJEE

'India's Foreign Policy in the Post-Cold War Era' (With Sreya Maitra Roychoudhury), in C. Vinodan (ed.), *India's Foreign Policy and Diplomacy*, New Century Publications, New Delhi, 2017.

"Theorising India's 'Rise': Levels, Structures and Agency in India's Foreign Policy" (with Sreya Maitra Roychoudhury) in Rajkumar Kothari and Eyasin Khan (eds.), *India Becoming a Global Power in the Twenty-First Century; Rising Challenges and Newer Opportunities*, Atlantic Publishers, 2017.

DR. IMAN KALYAN LAHIRI

Book titled *Peace, Development and Community: The Look East Imagination of India*

with Special Reference to North East India, MAKAIS and Knowledge World Publishers Private Limited, 2017.

DR. HERKAN NEADAN TOPPO

Book titled *Russia and North Atlantic Treaty Organization Relations: Changing Perception of Russia Towards NATO in Emerging World Politics*, Readers Service Publishing Pvt. Ltd., Kolkata, India. ISBN: 978-93-82623-64-9, 2016.

Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

PROF. PARTHA PRATIM BASU

'Federalism and Foreign Policy in India: Experiences of UPA and NDA II Regimes', *India Quarterly*, (SAGE),72 (3), 2016.

PROF. SHIBASHIS CHATTERJEE

'Western Theories and the non-Western World: A Search for Relevance', in *South Asian Survey* (SAGE), 21(1&2), 2017.

'Linklater and Critical IR Theory: Discourse ethics, territoriality and citizenship', in *Research Journal: Social Sciences* (Punjab University), Vol. 24, Issues 1& 2, 2016.

DR. HERKAN NEADAN TOPPO

'India's Interests in Emerging Sub-regional Cooperation: Opportunities and Challenges', in *Jadavpur Journal of International Relations* (SAGE), Volume 20, Issue I, ISSN: 0973-5984, 2016.

5. Collaborative Programmes:

A Roundtable with Professors of Hull University, UK on 'Implications of Brexit' was organized by the Department of International Relations jointly with the School of International Relations and Strategic Studies, Jadavpur University on 20 September 2016, at Committee Room 1, Jadavpur University.

The International Relations Scholastic Conclave 2016 was organized by the Department of International Relations, Jadavpur University in collaboration with the Bhawanipur Education Society College, Kolkata, on 22 and 23 September, 2016 on the theme 'Transnational Security Issues in the Contemporary World' and held at the H.L.Roy Auditorium, K.P. Basu Memorial Hall and the Department of International Relations Seminar Hall, Jadavpur University.

The 4th Biennial Anil Sarkar Memorial Lecture by Professor Aswini K. Ray on 'Indo-Pak Relations: State and People in the Context of Present Turmoils' on 6 January, 2017 was organized by the Netaji Institute for Asian Studies in collaboration with the Department of International Relations, on 6 January, 2017, in the IR Seminar Hall, Jadavpur University.

A Seminar on Human Rights on the theme 'Stand Up for the Rights of Others' was organized by the Department of International Relations, Jadavpur University in collaboration with United Nations Information Centre for India and Bhutan, New Delhi, West Bengal Federation of United Nations Association and Netaji Institute for Asian Studies, Kolkata, on 10 January 2017, at TEQIP Building, Jadavpur University.

A Lecture on 'Political Responsibility and Leadership in a Globalised Fractured World'

by Professor Richard Beardsworth, Director of Research and Deputy Head, Department of Politics, Aberystwyth University, on 2 February, 2017, was organized by the British Council, in collaboration with the Department of International Relations, in the Seminar Hall of the Department of International Relations.

6. Major Achievements: Fellowship/Award

Professor Shibashis Chatterjee was awarded Fulbright-Nehru Academic and Professional Excellence Fellowship 2016-2017 and was affiliated at the Mac Millan Center for International and Area Studies and the Department of Political Science at University of Yale, US, between August 2016 and February 2017.

LIBRARY & INFORMATION SCIENCE

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UDAYAN BHATTACHARYA

PAPER PUBLISHED

1. BHATTACHARYA, UDAYAN (with Atanu Das). 2016. Knowledge inflow in Library and Information Science in India: a case study of Library Herald. Asian Journal of Multidisciplinary Studies.4, 6.
2. BHATTACHARYA, UDAYAN (with Arijit Das). 2016. Nobel Laureates Amartya Sen: A Scientometric Portrait. Librarian.23, 2.

RESOURCE PERSON

1. Acted as Resource person in Refresher in the Department of Library & Information Science at University of North Bengal held during November, 2016.
2. Acted as Resource Person in UGC-HRDC sponsored Short Term Workshop on 'Use of Information Sources in Research & Development' held at DLIS, Jadavpur University during 5th January to 11th January '2017.
3. Acted as Resource Person in TEQUIP-II, Jadavpur University sponsored seminar on "Libraries and Technological Changes: Today & Tomorrow" on 30th March, 2017

Ph.D. AWARDED

1. Atanu Das. Mapping of Inter-relationship between Library and Information Science (LIS) and Non-LIS Literature Publications

SESSION CHAIRED

1. Conference on Open Access: The Road of Freedom 7 & 8th April 2017. Organized by Society of Information Science, India.
2. The Department of Library and Information Science, Rabindra Bharati University, organized a National Seminar on 'Towards knowledge society and the role of academic

Annual Report 2016-17

libraries: problems and prospects' on March 18, 2017

3. International Conference on Lifelong Learning in Developing Countries: Issues and Perspectives. Central Library, University of Kalyani. 16-17 February 2107.
4. UGC Sponsored National Seminar on 'LIS Curricula in Indian Universities' Dept. of Library and Information Science, Jadavpur University, 3-4February, 2017

UGC-UPE-II PROGRAMME

1. Principal Investigator: Digital Reference Sources: An Open Text Book
2. Joint Coordinator: Digital Library & Web Based Materials, UPE-II, Jadavpur University

WORKSHOP

1. **Workshop on** Digital Reference Sources: An Open Text Book. Organized by Department of Library & Information Science, Jadavpur University, under UPE-II during 29-30 June, 2017.

Professor Subarna Kumar Das

Paper Publication

1. **DAS, SUBARNA KUMAR** .STUDY OF THE DEVELOPMENT OF COLLECTION AND UTILIZATION OF PUBLIC LIBRARY SERVICES IN BARRACKPORE SUB-DIVISION, WEST BENGAL, INDIA: A CRITICAL ASSESSMENT STUDY. **M.R BOOKS: GAUHATI, 2017**
2. **DAS, SUBARNA KUMAR** .INFORMATION MANAGEMENT AND USE OF ICT IN THE GOVERNMENT ENGINEERING COLLEGE LIBRARIES OF WEST BENGAL: AN ANALYTICAL STUDY. **M.R BOOKS: GAUHATI, 2017**
3. **DAS, SUBARNA KUMAR & MAL,DEVKUMAR**.ICT INFRASTRUCTURE & STATUS OF AUTOMATION IN PRIVATE ENGINEERING COLLEGE LIBRARIES OF WEST BENGAL: A COMPARATIVE ANALYSIS.IN RAUTARAY, BIJAYALAXMI AND OTHERS(EDS.). Matching Beyond Libraries: role of Social Media and Networking. **Bhubneswar: Overseas Press India Limited & KIIT University, 2016**
4. **SEN, PARAMITA & DAS, SUBARNA KUMAR**.USE OF E-RESOURCES BY N-LIST IN THE COLLEGE LIBRARIES UNDER WEST BENGAL STATE UNIVERSITY. **IN ICDL2016: KNOWLEDGE TRENDS THAT WILL CHANGE THE WORLD. NEWDELHI: TERI,2016**
5. **DAS, SUBARNA KUMAR & PARAMANIK, AMIYA**"Measuring the Green Library System: An Overview". **In MZU-ICLIS,2017**. Aizwal; Mizoram University,2017
6. **DAS, SUBARNA KUMAR& DAS, ADITI**."Green Library Initiatives in Private School Libraries in North Kolkata : An Evaluative Study "**In MZU-ICLIS,2017**. Aizwal; Mizoram University,2017
7. **BANERJEE, MOHIT DAS, SUBARNA KUMAR** .Document Management System in Indian Electronic Industry: Some Issues and Observations.**Librarian**, Vol23, Issue No 1, July, 2016

Paper Presentation

1. **Das, Subarna Kumar** .Presented a paper on "STUDY OF THE DEVELOPMENT OF COLLECTION AND UTILIZATION OF PUBLIC LIBRARY SERVICES IN BARRACKPORE SUB-DIVISION, WEST BENGAL, INDIA: A CRITICAL ASSESSMENT STUDY" in ICTL, 2017 held at ~~Chit~~ Kokrajhar, Assam, Organised by DLIS, Gauhati

University and CIT, Kokrajhar during 8-10 July, 2017.

2. **Das, Subarna Kumar** .Presented a paper on “INFORMATION MANAGEMENT AND USE OF ICT IN THE GOVERNMENT ENGINEERING COLLEGE LIBRARIES OF WEST BENGAL: AN ANALYTICAL STUDY” in ICTL, 2017 held at CIT, Kokrajhar, Assam, Organised by DLIS, Gauhati University and CIT, Kokrajhar during 8-10 July, 2017.
3. **Basu, Aditi & Das, Subarna Kumar** . Presented a Paper on “Necessary of IT in Present LIS curricula in Indian Universitties” in UGC Sponsored National Seminar on “ LIS Curricula in Indian Universities during 3-4 Feb, 2017 organised by DLIS, Jadavpur University
4. **Das, Debarati Das & Subarna Kumar** . Presented a paper on “LIS Education infrastructure in the distance education in West Bengal” in UGC Sponsored National Seminar on “ LIS Curricula in Indian Universities” during 3-4 Feb, 2017 organised by DLIS, Jadavpur University
5. **Das, Subarna Kumar**.Presented a paper on”Measuring the Green Library System: An Overview”. **In MZU-ICLIS,2017**during 1-3 March, 2017. Aizwal; Mizoram University,2017
6. **Das, Subarna Kumar**. Presented a paper on”Green Library Initiatives in Private School Libraries in North Kolkata: An Evaluative Study “**In MZU-ICLIS,2017 during 1-3 March, 2017**. Aizwal; Mizoram University, 2017

Acted as Resource Person/ Session Chaired

1. Acted as Resource person in UGC-HRDC Short-Term Workshop on “ Use of Information Sources in Research and Development” during 5-11 January, 2017 organised by UGC-HRDC,JU and DLIS,JU
2. Acted as Resource person in UGC-HRDC Short-Term Workshop on “Open access to scholarly literature: technological and ethical aspects”on 28th January, 2017 organised by UGC-HRDC,CU and DLIS,CU
3. Acted as Resource person in UGC-HRDC Short term Workshop on “ Basic Skill of Counselling” on 14th January organized by UGC-HRDC,JU and Dept. of Education,JU
4. Acted as resource person in UGC-HRDC Sponsored 62nd Orientation Programme organized by UGC,HRDC,JU during January,2017
5. Acted as Resource person in UGC-HRDC Sponsored 63rd Orientation Programme organized by UGC,HRDC, JU during March,2017
6. Acted as Resource person in UGC-HRDC Sponsored ‘Winter School “ organized by UGC,HRDC,JU and Dept. of History, during March,2017
7. Acted as Resource person in UGC-HRDC Sponsored ‘Refresher Course on Library and Information Science “ organized by UGC,HRDC,NBU and Dept. of Library and Information Science,NBU during 3-21 November,2016
8. Session Chaired in **ICTL, 2017** held at CIT, Kokrajhar organized by CIT, Kokrajhar and Gauhati University during 8-10 July,2017
9. Session Chaired in ICLIS, 2017 held at Aizwal, Mizoram University organized by Mizoram University during 1-3 March, 2017
10. Session Chaired in UGC& RRRLF sponsored National Seminar on Efficient Library and Information Services in Digital Era” during 24-26 March, 2017 organised by DLIS,

University of Burdwan

11. Session Chaired in UGC Sponsored International Conference on Rabindranath Tagore's Thoughts on Library and Education on 18th April, 2017 at Nazrul Bhavan Jadavpur University organised by Dept. of Education, JU and Banjanbarna Foundation, Kolkata
12. Session Chaired in UGC Sponsored National Seminar on " LIS Curricula in Indian Universities" during 3-4 Feb, 2017 organised by DLIS, Jadavpur University
13. Acted as Resource person in Murshidabad District Book Fair Seminar on Users, Documents and Public Library ,2017 on 12th Feb, 2017 organised by Director of Library Services, Govt. of West Bengal, LLA, Murshidabad District and RRRLF
14. Session Chaired in International Seminar on **Line (Library for Next Generation) 2016** on 17th December, 2016 at DLIS, University of Kalyani organized by DLIS, University of Kalyani and KULISSA

Course Organised

1. Acted as Co-ordinator in UGC-HRDC Short-Term Workshop on "Use of Information Sources in Research and Development" during 5-11 January, 2017 organised by UGC-HRDC, JU and DLIS, JU
2. Acted as Joint Organising Secretary, in UGC Sponsored National Seminar on "LIS Curricula in Indian Universities" during 3-4 Feb, 2017 organised by DLIS, Jadavpur University
3. Acted as Co-coordinator of 62nd Orientation programme in UGC-HRDC Sponsored 62nd Orientation Programme organized by UGC, HRDC, JU during August-September, 2016

PROF. GOUTAM MAITY

PAPER PUBLISHED

Maity, G. (with Paramita Pathak). (2017). Gender-Specific Information Seeking Behaviour. *International Journal of Digital Library Services*. 7(1), 47-59.

Ph.D AWARDED

Sambhu Nath Halder. The Use of Subject Headings for Bengali Documents in Online Public Access Catalogue. Supervisor: Prof. Goutam Maity. PhD awarded by Jadavpur University at the Annual Convocation, held on December 24, 2016.

RESOURCE PERSON

- 1) Acted as Resource Person in UGC sponsored Short Term Course in Information Science and Technology organized by the UGC-HRDC, University of Calcutta, held during 25-31 January 2017. Topic: Research Methodology.
- 2) Acted as Resource Person in UGC Sponsored National Seminar on Exertion to Establish Knowledge Society: Responsibility of Academic Libraries, held during 24th & 25th September, 2016 organized by Shimurali Sachinandan College of Education Shimurali, Nadia, West Bengal, in collaboration with Indian Institute of Chemical Biology (CSIR), Kolkata. Topic: Philosophy of Knowledge Society and the Role of Libraries.

SESSION CHAIRED

- 1) UGC Sponsored National Seminar on 'LIS Curricula in Indian Universities' organized by the Dept. of Library and Information Science, Jadavpur University, held during 3-4 February, 2017.

- 2) UGC Sponsored National Seminar on Roadmap for Ensuring the Quality of Library and Information Science Education and Research Organized by K. D. College of Commerce & General Studies, Midnapore, held during 27-28 January 2017.

FELICITATION

- 1) Felicitation received from the Dept. of Mass Education Extension and Library Services, Ministry of Education Government of West Bengal on the eve of observance of the Public Library Day in West Bengal, held on 31st August 2016.
- 2) Felicitation received from Library Association of Bangladesh, Dhaka, Bangladesh on 29 December 2016 at Dhaka, Bangladesh.
- 3) Felicitation received from the University of Burdwan, West Bengal on the eve of Golden Jubilee Celebration of the Department of Library and Information Science held during 24-26 March, 2017.

Dr. Sunil Kumar Chatterjee

Articles Published

Information sources on lectures, addresses and speeches of Rabindranath Tagore: a critical analysis. *Librarian*, 23(2), 2016, p. 21-28.

Seminar Organized

Served as an Organizing Secretary in **Two day UGC sponsored National Seminar on 'LIS**

Curricula in Indian Universities, held at J.U. during 03/02/17 to 04/02/17.

Ph.D. awarded

Name of Scholar

Topic

Joydip Chandra : Web Link Analysis of Higher Academic Institutions in India towards Optimization of Ranking Methods

Kuldip Chand : Management and Usage of E-Resources of Agricultural University Libraries in Rajasthan

Dr. Tarun Kumar Mondal

- Delivered invited lecture in the 'Convention of Students, Teachers and LIS Professionals on LIS Education' organized jointly by BLA and IASLIC held at DLIS, Jadavpur University on 30th July '2016.
- Co-authored an article entitled "Indian philosophy in three free online encyclopedias : Comparison of Wikipedia with Stanford Encyclopedia of Philosophy and Internet Encyclopedia of philosophy with Piyali Ghosh published in *Librarian*, Vol.23, Issue 2(July 2016).
- Acted as Resource Person in UGC-HRDC sponsored Short Term Workshop on 'Use of Information Sources in Research & Development' held at DLIS, Jadavpur University during 5th January to 11th January '2017.
- Chaired in a technical session in UGC sponsored National Seminar on 'LIS Curricula in Indian Universities' organized by DLIS, Jadavpur University during 3-4 February' 2017.
- Presented a paper entitled **"Teaching ICT in LIS Courses : My experiences with**

Truth” in UGC sponsored National Seminar on ‘LIS Curricula in Indian Universities’ organized by DLIS, Jadavpur University during 3-4 February’ 2017.

- Co-Principal Investigator of the project ‘**Digital Reference Source : An Open Textbook**’ under UPE-II Programme, Jadavpur University.

PHILOSOPHY

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Int. : 2457-2358
H.O.D. : Prof. Atashee Chatterjee Sinha
E-mail : hod@phil.jdvu.ac.in
hod.philosophy@jadavpuruniversity.in

Ratna Dutta Sharma, Ph.D. Professor

Seminars/ Conferences/ Workshops Attended/ Organized/ Papers Presented/ Sessions Chaired:

- Acted as a resource person of the workshop on Buddhist Logic organized by Ramakrishna Mission Institution of Culture (From 20th June – 30th June) 2016
- Delivered a lecture on Research Methodology as a resource person for the Ph.D. Course work of Sanskrit Department, Jadavpur University on 30th August’2016.
- Acted as a resource person in the workshop on ‘Buddhist Logic’ organized by Ramakrishna Mission Institution of Culture, Golpark, from 20th June’2016 – 30th June’2016.
- Delivered a series of lecture as external resource person for the Ph.D. course work of Philosophy Department, WBSU on 7th Sep. and 14th Sep’ 2016.
- Chaired a session in the seminar organized by the Department of Philosophy, Jadavpur University, in the International Philosophy day, 2016.
- Chaired a session in the National Seminar organized by the ICPR Centre for Buddhist Studies, Department of Philosophy, Jadavpur University during 3rd-4th October, 2016.

Publication Details: Books, Journals, Articles, Chapters:

Published

- Written on two topics “Vāda, Jalpa and Vitandā” and “Nyāya Bauddha Controversy over Nigrahasthāna” for Epathsāla.
- Bhasarvajñasammata Pratyakṣa Pramānalakṣaṇa has been published in the anthology ‘Nyāya Samvitti’ edited by Preetam Ghosal and Samkalita Ghosh, Krishnanagar Government College.

Forthcoming-

- ‘On definition’, in essays in Honour of Amita Chatterjee, ed. by Madhuchanda Sen,

Kuntala Bhattacharya and Smita Sarker. (Forthcoming)

Phd Supervision :

Ongoing (Registered): 5

M.Phil Supervision :

Awarded: 2

Ongoing: 2

Rupa Bandyopadhyay, Ph.D. Professor

Seminars/ Conferences/ Workshops Attended/ Organized/ Papers Presented/ Sessions Chaired:

- Presented a paper entitled “Understanding Dharma” in a UGC sponsored National Seminar on “Values in Philosophy, Education and Sociology: Indian and Global Perspectives” organized by St. Paul’s Cathedral Mission College, Kolkata, in collaboration with Environs Safe Organization, Kolkata during January 09-10, 2017.
- Presented a paper entitled “Actions without Desire: A Review of the Concept of Niskāma Karma from the Advaita Perspective” in a National Seminar on “Different Interpretations of Gita” organized by the Centre for Sri Aurobindo Studies, Department of Philosophy, Jadavpur University during January 27-28, 2017.
- Chaired an academic session in a UGC-CAS seminar on “Gender and Ethics in the Epics” to commemorate the World Philosophy Day 2016 on December 22, 2016.
- Delivered a lecture on the Concept of Liberation in a course on “Some Fundamental Concepts of Indian Philosophy” organized by the Ramakrishna Mission Institute of Culture, Golpark, Kolkata on June 1, 2016.
- Delivered a lecture on the “Mīmāṃsā Theories of Sentence-Meaning” at the Department of Philosophy, Presidency University on September 28, 2016.
- Acted as a chairperson in the Two day State level Seminar on Binaries and Beyond on 29th & 30th March, 2017, organized by the Department of Philosophy, Jadavpur University.

Ph.D. Supervision

Submitted 1

Ongoing 4

M.Phil. Supervision

Awarded – 01

Madhumita Chattopadhyay, Ph.D. Professor

Seminars/ Conferences/ Workshops Attended/ Organized/ Papers Presented:

Seminars Organized:

- Organized a two-day National Seminar on “The Concept of Body in Indian Philosophy” for Young Scholars on behalf of the ICPR Center for Buddhist Studies on 15th and 16th September 2016.
- Organized a Three-Day International Seminar on “Logic, Ethics and Epics: Homage to Professor Bimal Krishna Matilal” to commemorate the 25th death anniversary of

Annual Report 2016-17

Professor Bimal Krishna Matilal on 27th to 29th December 2016 jointly with Gargi Goswami and Prof. Amita Chatterjee.

- Presented a paper on “Conflict Management as found in Buddhist Literature” at a 3-day International Seminar on ‘*Contemporary Challenges and Pali-Prakrit and Buddhist Literature*’ on 2nd December, 2016 organized by Sri Sitaram Vaidic Adarsha Sanskrit Mahavidyalaya, Kolkata
- Presented a paper on “*Svadharmā* in the light of Bankimchandra” at a National Seminar on “Interpretations of *Bhagavadgītā*” organized by the Center of Sri Aurobindo Studies, Department of Philosophy, on 28th January 2017.
- Presented a paper on “Logic of the *Mūlamadhyamakāśāstra*” at a One-day National Symposium on “*Mūlamadhyamakārikās* of Nāgārjuna” organized by The Indian Institute of World Culture in collaboration with Pali Institute, Gulbarga, Bengaluru, on 5th March 2017.
- Presented a paper on “The Contribution of Rahul Sankrityayana” at a National Seminar on “Contemporary Thinkers” organized by the Department of Philosophy and Life World, Vidyasagar University on 8th March 2017.
- Presented a paper on “Buddhist Economics” at 3-Day International Conference on the theme “Buddhism in the 21st Century—Perspectives and Responses to Global Challenges and Crises” organized by the Ministry of Culture, Government of India, at Nava Nalanda Mahavihara, Nalanda, Bihar from 17th to 19th March 2017
- Presented a paper on “Vasubandhu’s views of Linguistic Items” at the 6th International Buddhist Academic Conference on the theme “Theravāda and Buddhaghosa: Problems of Identification, Interpretation and Continuation” organized by Sri Lanka Association of Buddhist Studies in association with Buddhist and Pali University of Sri Lanka on 2nd July 2016.
- Delivered 13 lectures on the following topics , “Indian Logic”, “Logic in Pāli texts”, “Logic of the Mādhyamikas”, “Logic of Nāgārjuna”, “Svatantra Method in Logic”, “Prasanga method in logic”, “Reading the text “*Gatāgataparīkṣā* from both standpoints”, “Development of Systematic Logic: Vasubandhu”, “Development of Buddhist Logic: Dignāga”, “Dignāga: Nyāyamukha”, “Hetucakradamaru”, “Introducing the logic of Dharmakīrti” and “Logic of the debate tradition” in the 10 day Workshop on Buddhist Logic conducted by the Ramakrishna Mission Institute of Culture from 20th June to 30th June 2016.
- Delivered a lecture on “Contribution of Nāgārjuna to Indian Logic” at a workshop on Logic organized jointly by the School of Cognitive Science, Jadavpur University, Calcutta Logic Circle on 26th August 2016.
- Presented a paper on “Economic Elements as looked upon by the Buddhists” at a Two-Day National Seminar on the theme “Buddhism and Life” organized by the Center for Buddhism, Department of Philosophy, North Bengal University on 27th March 2017.
- Organized a Two-Day State level seminar on “Binaries and Beyond” jointly on 29th and 30th March 2017 jointly with Dr Gopinath Mondal.

Publication details:

Books

Forthcoming –

Buddhist Logic: Its Development through the Ages

Articles Published-

“Rāhula Sankrityāyaner jīban o darśan: Ekti samkṣipta pratibedan” in *Parikathā*, XIXth Year 1st Issue, December 2016

Forthcoming-

A chapter on “Introduction to Buddhist Logic” to the *Handbook of Indian Logic*, ed by Sundar Sarukkai, going to be published from Springer.

“*Var Gadharma: from the perspective of a Contemporary Indian Thinker*” to be published in an anthology on *Value*

Ph.D Supervision:

Awarded: 1

Ongoing: 7

M.Phil Supervision:

Awarded: 1

Ongoing: 2

Any Other Relevant Information:

At present serving as the Editor of *Jadavpur Journal of Philosophy and Darśan-Bīkṣā*. Working as the Coordinator of ICPR Center for Buddhist Studies, Department of Philosophy, Jadavpur University.

Gangadhar Kar, Ph.D. Professor

Seminars/Symposium/Conferences/Workshops Attended/Organized:

- Delivered a lecture on “Nyasastrasya Sastrantarapaksetivam” in the Seminar on “Sastrasyasastrantarapeksitvam” organized by West Bengal State University on 22nd March 2016.
- Delivered a lecture on “Nyayavaishesika darsane Jatibicarh” held at Ghatal Rabindra Shatabarshiki Mahavidyalaya on 5th August, 2016.
- Chaired a session as a Guest of Honour in the International Workshop on Oriental Heritage, Astrological and Spiritual sciences, Organized by Kaalchakra Astrological Education and Research Foundation on 24th September, 2016.
- Delivered a lecture in the UGC-Sponsored National Seminar, in collaboration with Department of Sanskrit., Bajkul Milani Mahavidyalaya on “Shatsandarbha: The Source of Bengali Vaishnavism” held at Prabhat Kumar College, Contai on 28th September, 2016.
- Chaired a session in the seminar on “ The Concept of Body in Buddhist Philosophy and Culture”, organized by the Department of Philosophy, Jadavpur university on 3rd October, 2016.
- Participated as a judge in the State-Level Elocution Contest organized by Sri Sitaram Vaidik Adarsha Sanskrit Mahavidyalaya held on 17th November, 2016.
- Acted as a Resource Person in the ICPR₂₄sponsored State-Level Seminar held at

Vidyasagar University on 15th December, 2016.

- Delivered a lecture in the ICPR-Sponsored State Level Seminar organized by Vidyasagar University on “Critical Thinking and Philosophizing” on 15th December, 2016.
- Acted as a Resource Person in the UGC-sponsored National Seminar on “The Sanskrit and Bengali Literature in the light of Philosophy : From Source to Modernization”, held at Rampurhat College during 18th-19th December 2016.
- Chaired a session in the UGC-CAS Seminar on Gender and Ethics in the Epics organized by the Department of Philosophy, Jadavpur University on 22nd December, 2016
- Presented a paper titled “Nyayanaye Nampadasya Arthavicarah” in the international Seminar on “Logic, Ethics and Epics: Homage to Professor Bimal Krishna Matilal” organized by ICPR Centre for Buddhist studies, Department of Philosophy, Jadavpur University on 27th December 2016
- Chaired a session in the national Seminar on “Different Interpretations of Gita” organized by the Centre for Aurobindo Studies, Department of Philosophy, Jadavpur University On 28th January. 2017
- Participated as a judge in the 80th All India Sanskrit Conference organized by Howrah Sanskrit Samaj on 28th January 2017.
- Delivered a lecture in the seminar on “Shastresu Shabdarthasambandha” organized by Ramkrishna Mission Vidyamandira, Belur Math on 7th February,2017
- Invited to act as a resource person in the 10-day National Level Research Oriented Workshop on Bhasaparccheda (Anumankhandam) organized by Ramkrishna Mission Vidyamandir, Belur Math on the following dates 21,25, 28th March 2017 and 1,4,8,11,18,22 & 25th April 2017.
- Acted as a Resource Person in the 62nd Orientation Programme organized by UGC-HRDC at Jadavpur University, Saltlake Campus on 24th June 2016
- Delivered a lecture in the Workshop on Sabdabodha-Prakriya dated 27th March, 2017 organized by The Ramkrishna Mission Institute of Culture.
- Delivered a lecture in the Workshop on Nyaya-Vaisheshika Philosophy, Sabdabodha-Prakriya dated 29th March, 2017 organized by The Ramkrishna Mission Institute of Culture.
- Delivered lectures in the series of ten days workshop on Bhasaparccheda (Anumankhandam) dated 21st, 25th and 28th March, 2017 organized by Belur Vidyamandir.

Publication Details:

Article: ‘Vivekanander Vedanta Bhabana’, in the book *Ajana Manush Vivekananda*, edited by Bishnupada Nanda, Published by the Department of Education, Jadavpur University, 12/01/2017.

Ph.D supervision

Ongoing: 3

M.Phil Supervision:

Ongoing: 1

Atashee Chatterjee Sinha, Ph.D.

Professor and Head of the Department

Seminars/ Conferences/ Workshops Attended/ Organized/ Papers Presented:

- Presented a paper on “Freedom” at the University of Calcutta on 16th March, 2017
- Delivered a series of lectures on “Logical Positivism and Beyond” at ICSSR, Patuli from March 15th to March 30th.
- Acted as a chairperson in the Two day State level Seminar on Binaries and Beyond on 29th & 30th March, 2017, organized by the Department of Philosophy, Jadavpur University.

Publication Details:

Books, Journals, Articles, Chapters

Published-Forthcoming-

Article “ Deha, rastra o naitikata bishoye naribadi tattvakatham” in a Bengali anthology “Darshanik Tattvayane Naribad: Bhinna Manane Bichitra Alap” from Ebong Mushayera. (in Press)

Ph.D Supervision:

Submitted: 1, Registered: 7

M.Phil Supervision:

Ongoing: 02

Any Other Relevant Information:

- i) Member of Ethics Committee of AMRI Hospitals, Dhakuria and Mukundapur.
- ii) Member of Executive Council, Jadavpur University
- iii) Associate Editor of *Darśan-Bīkṣā*.

Proyash Sarkar, Ph.D. Professor

Seminars/Conferences/Workshops Attended/Organized/Papers Presented:

- 19-21 April 2016, Delivered a lecture on ‘Ambedkar on the Emancipation of the Untouchables,’ at an ICPR sponsored national seminar on ‘Caste Marginalization and Emancipation: A socio-Philosophical Perspective’ organized by Santhigiri Institute of Culture and Human Development, Thiruvananthapuram.
- 19-21 April 2016, chaired a session at an ICPR sponsored national seminar on ‘Caste Marginalization and Emancipation: A socio-Philosophical Perspective’ organized by Santhigiri Institute of Culture and Human Development, Thiruvananthapuram.
- 27-29 December 2016, Chaired a session at an International Seminar on ‘Logic, Ethics and Epics: Homage to Professor Bimal Krishna Matilal’ organized by the ICPR Centre for Buddhist Studies, Jadavpur University.
- 7th-8th March, 2017 invited to chair a session at a UGC sponsored National Seminar on ‘Approaches to the Real in Contemporary India’ organized by the Centre of Advanced Study, Jadavpur University.

2. Publication Details:

Books, Journals, Articles, Chapters

Published-Forthcoming:

- Contributed an article on ‘Emergentism’ to UGC-*epathshala* on the *Philosophy of Mind*.
- Contributed an article on ‘The Philosophy of Baul’ to UGC-*epathshala* on *Religion*.

- ‘Ambedkar on the Emancipation of the Untouchables’ in an anthology on *Caste, Marginalization and Emancipation: A Socio-Philosophical Perspective* to be published by Santhigiri Institute of Culture & Human Development, Thiruvananthapuram

3. Ph.D Supervision:

a. Submitted:

b. Registered: 7

4. M.Phil Supervision:

a. Awarded: 1

b. Ongoing: 1

5. Any Other Relevant Information:

Acting as the Deputy Coordinator of the Centre of Advanced Study in Philosophy, Jadavpur University.

Lopamudra Choudhury, Ph.D. Professor

Seminars/ Conferences/ Workshops Attended/ Organized/ Papers Presented:

- Presented a paper on Professor Pahi’s Contribution to Formal Logic, International Seminar on Philosophical Contributions of Professor Pahi, University of Rajasthan, Jaipur 13.03.16
- Presented a paper on The living dead, some ethical issues, National Seminar on Ethical issues concerning life and death, Samsi College, Samsi , 23rd- 24th July, 2016
- Presented a paper on A non-classical diagram system with presence and absence of individuals, in the 2nd Indian Winter School on diagrams from 13th – 17th February, 2017
- Organized a one day Seminar on Nyāya Philosophy: Commemoration of 100 years of Paṇḍit Viswabandhu Bhaṭṭācārya’ on 15th September 2016.
- Organized a five day long Winter School: 2nd Indian Winter School on diagrams, 2017 from 13th – 17th February, 2017
- Acted as a chairperson in the Two day State level Seminar on Binaries and Beyond on 29th & 30th March, 2017, organized by the Department of Philosophy, Jadavpur University.
- “Unfaithful Memory” presented at the National seminar on Mind and Memory: An Inquiry into the Nature of Cognition, 20th-22nd March 2017, Hyderabad University, Hyderabad

20th March 2017

Special Lectures Delivered:

- “Cognition of the Blind”, Hyderabad University, 17th March, 2017
- “An Attempt to Understand Cognition and Depression: First Person Account”, Hyderabad University, 18th March, 2017

Publications : Paper Published

- Lopamudra Choudhury & Mihir Kumar Chakraborty, **Singular Propositions, Negation and the Square of Opposition**, Published online: 24 March 2016, *Logica Universalis* (Copyright 2016 Springer International Publishing)
- Nairrita Bhattacharya & Lopamudra Choudhury, **Use of Modality in Concept Formation: A Study on the Visually Challenged**, *International Journal of Dravidian Linguistics* (IJDL, ISSN No. 0378-2484), Vol. 45 No. 1, January 2016, Page No. 84-96
- Nairrita Bhattacharya & Lopamudra Choudhury, **Consolidation of Concepts in the Visually Challenged and the Sighted Individuals with Special Reference to Onomatopoeic Words**, *Procedia Computer Science* 84 (2016) 186 – 191
- Jim Burton, Mihir Chakraborty, Lopamudra Choudhury, and Gem Stapleton, **Minimizing Clutter Using Absence in Venn-i,e; Proceedings of Diagrams 2016, Springer**

Ph.D Supervision:

Submitted: 1

Ongoing: 4

M.Phil Supervision:

Awarded:1

Ongoing: 4

Any Other Information:

- Principle Investigator of the National Centre for Perception Engineering-II at the School of Cognitive Science, supported by the Ministry of Information Technology in collaboration with CEERI Pilani, IIT Delhi, IIT Mumbai, IIIT Hyderabad, NBRC.
- Acting as Joint Coordinator of the UGC, UPE-II in Cognitive Science.

Sashinungla, Ph.D. Professor

Seminars/Conferences/Workshops Attended/Presented:

- Presented a paper “Defining a tribal episteme(s)” at the ICPR National Seminar on *The Tribes of North East India: Exploring Identities, Culture, Politics and Philosophy* to be held on the 9-11th of March, 2017, Department of Philosophy, Janki Devi Memorial College, New Delhi.
- Coordinated the UGC National Visiting Lecture Series delivered by Professor S. Lourdunathan, Arul Anandar College (Autonomous) from 9th to 14th January 2017 on “Social Epistemology and Liberation Philosophy” at the Department of Philosophy, Jadavpur University, Kolkata.

Publication Details:

- “Thinking, Looking and Acting: Beyond East and Southeast to the ‘Other Asia’”, *Third*

World Quarterly (forthcoming).

- “India’s Foreign Policy and Domestic Compulsions: Theorizing the Margins of Exclusion”, in *The Interface of Domestic and International Factors in India’s Foreign Policy*, Sage Publications, eds., Johannes Dragsbaek Schmidt and Shantanu Chakrabarti (Forthcoming)

PhD Supervision:

Registered: 03

1. Group Research/Reading Projects (if any):

- Value
- Feminist philosophy

2. Any Other Relevant Information:

- Associate Editor, *Jadavpur Journal of Philosophy*
- Associate Editor, *Journal of General Philosophy* [published by Springer]
- Acted as special Article Editor for the *SAGE Open Journal*.

Aparajita Mukherjee, Ph.D. Professor

Seminars/Conferences/Workshops Attended/Organized/Papers Presented:

1. Presented paper ‘Nature of moral Dilemma’ in an International Seminar on *Ethics, Epics & Logic: Homage to Professor Bimal Krishna Matilal*, organized by the ICPR Centre for Buddhist Studies, Jadavpur University on 28th December 2016
2. Delivered lecture on the book *Through the Lens of Dharma-Ethics* in the program *Author Meets the Critic*, organized by the Department of Philosophy, Rabindra Bharati University on 8th February 2017
3. Delivered lecture on ‘Moral Agency’ in a Refresher course on *Behavioral Sciences*, organized by the Department of Anthropology, University of Calcutta on 17th February 2017
4. A session was chaired in a two-day National Seminar on ‘*The Concept of Body in Buddhist Philosophy and Culture*’ organized by the ICPR Centre for Buddhist Studies, Jadavpur University on 4th October 2016.
5. Delivered a special lecture on ‘*Democratic State*’ in Basanti Devi College, Kolkata on 31st March 2017
6. Organized two-day National Seminar on *Different Interpretations of Gītā* on 27th& 28th January 2017 with Sm Gargi Goswami
7. Organised a UGC sponsored Two-Day National Seminar on “Philosophy and Culture” jointly with Sm Rubai Saha on 21st and 22nd March, 2017.
8. Acted as a chairperson in the Two day State level Seminar on Binaries and Beyond on 29th & 30th March, 2017, organized by the Department of Philosophy, Jadavpur University.

Ph.D Supervision:

Submitted: 01

Registered: 04

Soumitra Basu, Ph.D.

Associate Professor

Seminars/Conferences/Workshops Attended/Organized/Papers Presented:

- Delivered two lectures in refresher course on ‘Studies in Peace and Conflict’ organized by UGC HRDC, University of North Bengal in January 2017.

- Delivered Pratima Sen Memorial Lecture at Jogamaya Devi College, Kolkata on 18th January, 2017 on the theme 'Bhalo Thaka, Bhalo Rakha: Ekti Monodarshanik Paryalocana'.
- Presented a Paper in the National Seminar on 'Philosophy and Culture' to be organized by the Centre for Sri Aurobindo Studies in March 2017.
- Organized National Seminar on 'Approaches to the Real in Contemporary India' (Jointly with Dr. Maitreyee Datta) held during 7th-8th March, 2017 under CAS in Philosophy, Jadavpur University.
- Chaired a session in the National Seminar on 'Different Interpretations of Gita' organized by Centre for Sri Aurobindo Studies, Jadavpur University during 27th-28th January, 2017.
- Chaired a session in State Level Seminar on 'The Philosophy of Leibnitz' organized by the Department of Philosophy, RBU on 15th March, 2017.
- Acted as a chairperson in the Two day State level Seminar on Binaries and Beyond on 29th & 30th March, 2017, organized by the Department of Philosophy, Jadavpur University.

Publication Details: Books, Journals, Articles, Chapters: (Forthcoming)

- 'When Morality is a Threat to Existence' in an anthology entitled *Morality and Existence* to be published by the Department of Philosophy, Gour Banga University.

Ph.D Supervision:

Submitted:	1
Ongoing:	8

M.Phil Supervision:

On-going:	1
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Jhuma Chakraborty, Ph.D. Associate Professor

Seminars/Conferences/Workshops Attended/Organized:

- Delivered a lecture on 'Ethics and Value education' in Bethune College on 19th Jan, 2017.
- Chaired in a national seminar organized by Maharaja Manindra Chandra College, on 'Relevance of Ambedkar and Gandhi in Contemporary India' on 8th feb, 2017.
- Delivered a lecture on 'Mohanty on the dialogue between Tagore and Einstein' in a two day national Seminar, to be organized by the department of philosophy on 'Approaches to the Real in Contemporary India', under CAS scheme, on 8th March, 2017.
- Acted as a chairperson in the Two day State level Seminar on Binaries and Beyond on 29th & 30th March, 2017, organized by the Department of Philosophy, Jadavpur University.

Publication Details:

Forthcoming:

- 'Womens in Today's world' to be published by Sociology Department, in the journal 'Social Trends' North Bengal University.
- 'Ethics and Epics' to be published by Muralidhar College, Kolkata.

Ph.D Supervision:

Ongoing:	3
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Submitted: 1

M.Phil Supervision:

Awarded: 1

Ongoing: 2

Dipayan Pattanayak : Associate professor

Seminars/Conferences/Workshops Attended/Organized/Papers Presented:

- Delivered lecture as resource person in a state level seminar on 'Nyaya Epistemology' at Agharkamini Mahavidyalaya on 7th December, 2016.
- Delivered lecture as resource person on the occasion of the birth centenary of Swami Vivekananda on 'The character formation of the student and youth' on 12th January, 2017..
- Delivered lecture as resource person in a National Seminar on "Relevance of Indian Philosophy in the 21st Century" organized by the department of Philosophy, Netaji Mahavidyalaya dated 2nd March 2017.
- Delivered lecture as resource person in a National Seminar on "Approaches to the Real in Contemporary India" organized by the department of philosophy, Jadavpur University dated 8th March, 2017.
- Delivered lecture as resource person on "Quest for the true religion" organized by the department of Philosophy, Bolpur Mahavidyalaya dated 9th March, 2017.
- Delivered lecture as resource person on "Ascertainment of the Validity of Knowledge: Nyâya perspective" organized by the department of Philosophy, Sreegopal Banerjee College dated 14th March, 2017.
- Presented a paper in a National Seminar entitled "Knowledge and Reality" organized by the department of Philosophy, The University of Burdwan dated 24th March, 2017.
- Presented a paper in a National Seminar entitled "Theoretical and Practical Issues relating to the Concept of Dharma" organized by the department of Philosophy, Manipur University dated 30th March, 2017.

Publication Details:

Books, Journals, Articles, Chapters

Forthcoming:

- An article entitled 'Why Should one act unto other' in Ethics and Culture.
- An article entitled 'Man as a being in the world; A study of Vivekananda's position', in the journal of contemporary Indian Philosophy Group.

M.Phil Supervision:

Awarded:1

On-going:2

Any Other Relevant Information: Submitted Ph.D thesis

Maushumi Guha, Ph.D. Associate Professor

**Seminars/ Conferences/Workshops Attended/Organized/Papers Presented/
Sessions Chaired:**

- Delivered a talk on 'Leibniz's Philosophy of Mind' at a One-Day Seminar on 'The Philosophical Contributions of Leibniz' held at the Department of Philosophy, Rabindra Bharati University, Kolkata, 15th March 2017.
- Attended International Conference on Fronto-Temporal Dementia in Asia organized by the Department of Cognitive Neurology, Apollo Gleneagles Hospitals, Kolkata, January 14-15, 2017.
- Organised UGC-CAS World Philosophy Day 2016 on 22nd December 2016 (jointly with Dr. Gopinath Mondal).
- Organised Pranab Kumar Sen Memorial Award Ceremony 2016 on 22nd December 2016 (jointly with Dr. Gopinath Mondal).
- Delivered a lecture titled, 'Research Design', at the Department of Sanskrit, Jadavpur University, Kolkata, 27th September, 2016.
- Delivered a Lecture titled, 'Knowing Other Minds' at the Department of Philosophy, Presidency University, 9th September 2016
- Acted as a speaker in the Two day State level Seminar on Binaries and Beyond on 29th & 30th March, 2017, organized by the Department of Philosophy, Jadavpur University.

Publication Details:

Books, Journals, Articles, Chapters

Published

Book Review of *Human Action, Consciousness, and Problems of Representation*, Geeta Ramana, Oxford University Press, New Delhi, India, 2014. In the *Jadavpur Journal of Philosophy*, Volume 25, Number 1.

3. Ph.D Supervision:

a. Submitted:

b. Registered: 5

4. M.Phil Supervision:

a. Awarded:

b. On-going: 1 + 2

5. Any Other Relevant Information:

Performed Convocation Duty on behalf of the Department of Philosophy at the Special Convocation and 61st Annual Convocation 24.12.2016

Arun Mahata : Associate Professor

Seminars/Conferences/Workshops Attended/Organized/Papers Presented:

- Attended One-day State-level Seminar on Nyaya Philosophy: Commemoration of 100 years of Pandit Viswabandhu Bhattacharya, Organized by the Department of Philosophy, Jadavpur University on 15th September, 2016.
- Attended two-day State-level Seminar on The concept of Body in Buddhist Philosophy and Culture, organized by The ICPR Centre for Buddhist Studies, Department of

Philosophy, Jadavpur University on 3rd& 4th October, 2016.

- Attended one-day Regional Level Seminar on Gender Session in the Epics on the occasion of World Philosophy Day, 2016 organized by Department of Philosophy, Jadavpur University on 22nd December, 2016.
- Attended three-day International Seminar on Logic, Ethics & Epics: Homage to Professor Bimal Krishna Matilal organized by The ICPR Centre for Buddhist Studies, Department of Philosophy, Jadavpur University from 27th to 29th December, 2016
- Attended two-day National Seminar on Different Interpretations of Gita organized by Centre for Sri Aurobindo Studies, Department of Philosophy, Jadavpur University from 27th& 28th January, 2017.

Publication Details:

Books, Journals, Articles, Chapters

Forthcoming:

Article: Chhou Artist Gambhir Singh Mura: His Life and Philosophy, *Ethics and Culture, Volume-III*, Department of Philosophy, Jadavpur University, March, 2017

M.Phil Supervision:

Awarded: 2

Ongoing: 2

Any Other Relevant Information:

Member of The Asiatic Society, Kolkata-700016 from 13th February, 2017

Maitreyee Datta, Ph.D. : Associate Professor

Seminars/ Conferences/Workshops Attended/Organized/Papers Presented:

- Acted as a resource person at a workshop in Buddhist Logic organized by Ramakrishna Mission Institute of Culture held on June 20-30, 2016.
- Chaired a session at the National Seminar organized by Centre for Sri Aurobindo Studies, Department of Philosophy, Jadavpur University held on 27 & 28 January, 2017.
- Acted as a chairperson in the Two day State level Seminar on Binaries and Beyond on 29th & 30th March, 2017, organized by the Department of Philosophy, Jadavpur University.

Publication Details:

Books, Journals, Articles, Chapters

Published

The following modules of Philosophy of Science paper of PG E-Pathshala project, UGC sponsored project in Philosophy

- Science and Pseudo-science (Module-29)
- Philosophy of Physics I (Module-32)
- Philosophy of Physics II (Module-33)

Ph.D Supervision:

Submitted:

Registered: 5

M.Phil Supervision:

Awarded: 5

On-going: 1

Sm Rubai Saha : Assistant Professor

Seminars/ Conferences/Workshops Attended/Organized/Papers Presented:

- Attended a 10-day workshop on Buddhist Logic conducted by the Ramakrishna Mission Institute of Culture, Golpark, from 20th June to 30th June, 2016.
- Presented a paper on : "The Caste System in the Gita and Ambedkar" on 14th February, 2017 at Sidho-Kanho-Birsha University, Purulia, West Bengal at an ICPR (MHRD) sponsored Two Day National Seminar on A RESUME OF THE WORKS OF DR. B.R. AMBEDKAR.
- Presented a paper on "Influence of Vedanta on the philosophy of Sri Ramakrishna" in Vidyasagar University, Paschim Medinipur, West Bengal on 8th March, 2017 at a Two Day National Seminar on "Modern Trends in Indian Philosophy" organized by the Department of Philosophy and the Life-world, Vidyasagar University on 8th March, 2017.
- Organised a UGC sponsored Two-Day National Seminar on "Philosophy and Culture" jointly with Professor Aparajita Mukhopadhyay on 21st and 22nd March, 2017.

Publication Details:

An article entitled "Bhakti Yoga: Interpretation of Swami Vivekananda" is published in the International Journal of Integrated Research and Development in December, 2016 (ISSN: 2278-8670)

Report of Group Projects

A chapter entitled "Acharya Swami Pranavananda: His message in Nation-Building" will be published in the anthology Ethics and Culture, Vol-3 within March, 2017

Samar K. Mondal, Ph.D. : Assistant Professor

Seminars/Conferences/Workshops Attended/Organized/Papers Presented:

- Presented a paper, "Twentieth Century Philosophy: Western" in a State Level Seminar, "Twentieth Century Philosophy: Western" at Bankura Christian College during 8th September, 2016.
- Presented a paper, "Mother Tongue and Higher Education: A Critical Analysis" in a International Level Seminar, "Higher Education, Universities and Excellence: The Bengal Narrative" at Jadavpur University during 20-21st December, 2016.
- Presented a paper "Gender Discrimination: A Philosophical Analysis" in a State Level Seminar, "Existence of Discrimination among Men, Women and Third Sex: Historical Background and Present Day Reality" at Panchokot Mahavidyalaya during 4th-5th January, 2017.
- Presented a paper, "Unish Shotoke Banglar Jeebon Jignasa" in a International Seminar, "Bongosomaj"

Publication Details:

Forthcoming

Genesis of Violence from Psychological point of view (Bengali), Antorjatik Pathsala, ISSN: 2230-9594/2016 Vol-V Issue II & III (Accepted)

Ph.D Supervision:

Ongoing: 2

M.Phil Supervision:

Awarded: 1

Ongoing: 1

Sm. Gargi Goswami : Assistant Professor

Seminars/Conferences/Workshops Attended/Organized/Papers Presented:

- Organized a three day International Seminar on “Logic, Ethics& Epics: Homage To Prof Bimal Krishna Matilal from 27th-29th December, 2016 under ICPR Centre for Buddhist Studies, Dept of Philosophy, J.U.
- Organized a two day National seminar on “Different Interpretations of Gita” from 27th-28th January, 2017 **under Centre for Sri Aurobindo Studies, Dept of Philosophy, J.U.**
- Presented a paper entitled “ Challenges of Cultural Relativism and Future of Feminist Relativism” in the National Seminar titled “Philosophy and Culture” held on 21st and 22nd March, 2017, organised by Centre for Sri Aurobindo Studies, Department of Philosophy, Jadavpur University.

Publication Details:

Books, Journals, Articles, Chapters

Published- “Marital Ethics: Revisiting Russell” in *Jadavpur Journal of Philosophy*, Vol.25 2015-16

M.Phil Supervision:

Awarded: 1

Ongoing: 1

Dr. Gopi Nath Mondal : Assistant Professor

1. Seminars/Conferences/Workshops Attended/Organized/Papers Presented:

- Organized UGC-CAS World Philosophy Day 2016 on 22nd December 2016 (jointly with Dr. Maushumi Guha).
- Organized Pranab Kumar Sen Memorial Award Ceremony 2016 on 22nd December 2016 (jointly with Dr. Maushumi Guha).
- Organized a one day Seminar on Nyāya Philosophy: Commemoration of 100 years of PaGdit Viswabandhu Bhattachārya’ on 15th September 2016 (jointly with Prof. Lopamudra Choudhury).
- Presented a paper in a National Seminar on “The Concept of Body in Indian Philosophy” for Young Scholars in behalf of the ICPR Center for Buddhist Studies on 15th and 16th September 2016.

Any Other Relevant Information:

Awarded Ph.D on 9th June 2016 from University of Milan, Italy.

Madhucchanda Sen, Ph.D. : Assistant Professor

Seminars/Conferences/Workshops Attended/Organized/Papers Presented:

Delivered lecture on ‘Self-Awareness – Asking the Right Questions’, Presidency

Annual Report 2016-17

University on 11th august,2016.

Delivered lecture on 'Self-Awareness and Values' at Prasanta Chandra Mahalanobish Mahavidyalaya on 10th December,2016.

Publication Details:

Books, Journals, Articles, Chapters

Published

Forthcoming

Writing a Book entitled Understanding Mind.

Writing a paper on Self awareness and the Taxonomy of Ganeri.

Ph.D Supervision:

Awarded: 2

Submitted: 2

Ongoing: 4

Any Other Relevant Information:

Faculty Coordinator of the project E-QUAL of European Union. Under this project I have made 5 modules on an online course on critical thinking.

PHYSICAL EDUCATION

Phone : + 91- 33-2413-6786

Int. : 2457-2486

H.O.D. : Dr. Gopal Ch. Saha

E-mail : hod@phed.jduv.ac.in

hod.ph.ed@jadavpuruniversity.in

1. A. Courses Offered:

a. B.P.Ed.: 2years, student intake- 50/year

b. M.P.Ed.: 2 years, student intake- 40/year

c. P.G.D.Y.T: One and half year, student intake- 25

1. B. No. of Faculty Members: 06 whole time permanent (03 Professors and 03 Assistant Professor)

2. A.: Area of Research Activities: Exercise Physiology, Sports Biomechanics, Sports Management, Sports Psychology, Test and measurements in sports, Sports training

2. B.: Major Research Project: Nil

PROFESSOR GOPAL CH. SAHA, H.O.D.

Published Works

- 01 Combined effect of Dance and Fitness on Waist Hip Ratio of Sedentary Females. Bidya Roy, Dr. Gopal Chandra Saha (Corresponding author). Journal of Physical Education

Annual Report 2016-17

Research, Volume. 03, Issue III, September, 2016, pp:73-79, P-ISSN No-23944048, E-ISSN No-23944056, Impact Factor: 0.519

- 02 Akash Tatva Chikitsa through Fasting. Dr. Gopal Chandra Saha, Bidya Roy, International Journal of Yogic, Human Movement and Sports Sciences, Volume. 1, Issue 1, July-December, 2016, pp:70-73, ISSN No-2456-4419, Impact Factor(RJIF): 5.18
- 03 Comparison of Dynamic Balance between two legs of Three Growth Stages of Children Biswajit Dhali, Dr. Gopal Chandra Saha, International Journal of Physical Education, Sports and Health, Volume. 3, Issue 6, November-December, 2016, pp:385-388, ISSN No (Online)-2394-1630, ISSN No (Print)-2394-1685, Impact Factor (ISRA): 5.38
- 04 Comparison of Skill Related Physical Fitness of School Going Children, Tania Parvin Dr. Gopal Chandra Saha (Corresponding author), Indian Journal of Research in Multidisciplinary Studies (IJRMS), A National Level Peer Reviewed Journal. Volume 4, February, 2017, ISSN No. 2348-2524.

Full paper published in the proceedings of Conference

- 01 Zumba Toning on Waist Hip Ratio of middle aged Sedentary females. Bidya Roy Prof. Gopal Chandra Saha, National Seminar on Nutrition and Wellness The Physical Education Unit, Palli Siksha Bhavana, Visva-Bharati. 7th -8th, November 2016 ISBN: 978-81-88904-88-4
- 02 Relationship between selected Anthropometric profiles and Kinesthetic Perception of School Children, Arumay Jana, Prof. Gopal Chandra Saha, National Seminar on Nutrition and Wellness, The Physical Education Unit, Palli Siksha Bhavana, Visva-Bharati, 7th -8th, November 2016. ISBN: 978-81-88904-88-4
- 03 Measuring the Level of Teaching Aptitude between B.Ed and B.PEd students. A Comparative Study, Sk Saha Alam Prof. Gopal Chandra Saha National Seminar on Nutrition and Wellness The Physical Education Unit, Palli Siksha Bhavana, Visva-Bharati. 7th -8th, November 2016. ISBN: 978-81-88904-88-4
- 04 Comparison of Body Composition between Tribals of Hills and Dooars region Bhusan Adhikary, Prof. Gopal Chandra Saha, National Seminar on Nutrition and Wellness The Physical Education Unit, Palli Siksha Bhavana, Visva-Bharati. 7th -8th, November 2016 ISBN: 978-81-88904-88-4

Details of invitation for delivering Lectures / Chairing Session in Conferences/ Seminars / Symposia. (Other than the part of academic curriculum)

- 01 National Seminar on Issues and Challenges in Physical education and Sports Sciences. Dept. of Physical Education, Vinaya-Bhavana, Visva-Bharati, Santiniketan and Alumni Committee, Dept. of Physical Education, Vinaya-Bhavana Issues and Challenges of Gender Equality and Women Empowerment in Sports, June 25 -26, 2016 National Resource Person
- 02 Two Day National Conference on New Horizons of Physical Education and Exercise Sciences, in the 21st century, Department of Physical Education, Burdwan University New Horizons of Physical Education and Exercise Sciences, in the 21st Century September 20th – 21nd 2016. National Chairing Session As Co-Chairperson
- 03 National Seminar on Nutrition and Wellness, The Physical Education Unit, Palli Siksha Bhavana, Visva-Bharati, Performance Nutrition for growing Athletes, November 7th -8th, 2016. National, Lead Speaker
- 04 National Seminar on Nutrition and Wellness. The Physical Education Unit, Palli Siksha Bhavana, Visva-Bharati, Nutrition and Wellness. November 7th -8th, 2016. National, Chairing Session As Chairperson

Attended and Paper Presented, Chaired in the National and International Conference/Workshop and performed other activities

Sl.No. Date Title of the Seminar/conference/Venue of Workshops/ Seminars/ Conferences & others/ Presented/Attended/Chaired

- 01 15th - 17th June, 2016, State Level Workshop on Revision of B.P.Ed. & M.P.Ed. Programmes as per NCTE New Regulation 2014. Deptt. of Phy. Edn., Jadavpur University, Acted as Member of the Org. Committee
- 02 11th& 12th Nov, 2016, National Seminar on Psychosocial. Perspectives of Physical Education, Deptt. of Phy. Edn., Mugberia Gangadhar Mahavidyalaya, Speaker 3'Social Perspectives of Physical Education ' & Chaired in a Scientific Session
- 03 24 Dec., 2016, College Seminar, Sri Gopal Banerjee College, Bagati, Hooghly. Invited Lecturer on Physical Education for Social Adjustment
- 04 8th-10thDec, 2016, 2-Day International Seminar on 'New Frontiers of Research in Physical Education and Sports Science', Deptt. of Phy. Edn. and Sports Science, Jessore University of Science and Technology, Bangladesh. Lead- Speaker on 'Technological Development in Sports and Human Performance' & Co-Chaired in the Scientific Session
- 05 20.02.2017, Felicitation Programme for 60 yrs celebration of the University. Jadavpur University, Felicitated as Prestigious Alumni
- 06 19 March, 2017, Pannel Discussion on Yoga in the Rural India, Ramakrishna Mission Vivekananda University, Belur, Pannelist
- 07 27th Feb to 3rd March, 2016, Member of the Expert Committee Members for 'Midterm Monitoring of Construction of Sports Infrastructure', Different Colleges under Aizwal University, Acted as Member nominated by UGC

Prof. Ashoke Kumar Biswas

Attended and Paper Presented, Chaired in the National and International Conference/Workshop and performed other activities

Sl.No./Date/Title of the Seminar/conference/Venue of Workshops/ Seminars/ Conferences & others/ Presented/Attended/Chaired

- 01 15th - 17th June, 2016, State Level Workshop on Revision of B.P.Ed. & M.P.Ed. Programmes as per NCTE New Regulation 2014. Deptt. of Phy. Edn., Jadavpur University, Acted as Organiser (Organising Secretary)
- 02 11th& 12th Nov, 2016, National Seminar on Psychosocial Perspective of Physical Education. Deptt. of Phy. Edn., Mugberia Gangadhar Mahavidyalaya. 'Psychological Factors Affecting Sports Performance'
- 03 11th& 12th Nov, 2016, National Seminar on Psychosocial Perspective of Physical Education. Deptt. of Phy. Edn., Mugberia Gangadhar Mahavidyalaya. Chaired in the Scientific Session
- 04 8th-10thDec, 2016, 2-Day International Seminar on 'New Frontiers of Research in Physical Education and Sports Science'. Deptt. of Phy. Edn. and Sports Science, Jessore University of Science and Technology, Bangladesh. 'Influence of Arousal Stress and Anxiety on Sports Performance'
- 05 8th-10thDec, 2016, 2-Day International Seminar on 'New Frontiers of Research in Physical Education and Sports Science'. Deptt. of Phy. Edn. and Sports Science, Jessore University of Science and Technology, Bangladesh Chaired in the Scientific Session

Annual Report 2016-17

- 06 21st to 24th October, 2016, Chairman of the Expert Committee Members for 'Midterm Monitoring of Construction of Sports Infrastructure'. Different Colleges under Guwahati University, Acted as Chairman nominated by UGC
- 07 27th Feb to 3rd March, 2016, Chairman of the Expert Committee Members for 'Midterm Monitoring of Construction of Sports Infrastructure'. Different Colleges under Aizwal University, Acted as Chairman nominated by UGC

DR. ASISH PAUL, Assistant Professor

Invited Lecture Delivered/Session Chaired:

a. Conferences

- 1 ————— 'Issues and Challenges in Physical Education and sports science' Department of Physical Education, Vinaya Bhavana, Visva-Bharati, Santiniketan, W.B. National Co-Chairperson
- 2 'Protispordhi' the new dimension of inclusive education in higher education Plenary lecture, National Seminar on 'Psycho-Social perspective of Physical Education', Department of Physical Education, Mugberia Gangadhar Mahavidyalaya, Purba Medinipur, National Plenary lecture
- 3 Contemporary issues of Physical Education and sports' Modern trends and development of Physical Education and sports. Department of Physical Education, Khejuri college, Purba Medinipur, W.B., National Lead Speaker
- 4 ————— Modern trends and development of Physical Education and sports Department of Physical Education, Khejuri college, Purba Medinipur, W.B. National Chairperson
- 5 ————— National seminar on latest trends and challenges for physical education and sports Govt. college of Physical Education for Women, Dinhata, Coochbehar, W.B. National Chairperson
- 6 ————— UGC international conference on sports medicine, Physical Education and Yoga, C.H.C. Athletic Association, Benaras Hindu University, Varanasi International Chairperson

b. Institutions:

1. Guest Lecturer in the department of SPORTS MANAGEMENT, Indian Institute of Social Welfare and business management, Kolkata, West Bengal
2. P.T.T.I. Institution, Vidyasagar BaniBhaban

Seminar/Workshop/Conference/Symposium Attended

Sl. No. Title of Lecture/ Academic Session/Title of Conference/ Seminar etc./ Organized by Whether International/National/State/University level

- 1 'A status survey on advertisement in IPL, 2016. National Seminar on Issues and challenges in Physical Education and Sports science, Alumni committee of Dept. of Physical Education and Department of Phy. Edn, Visva- Bharati, Santiniketan. National Paper presented
- 2 Physical Education and Sports in Indian Government's national policy on Education- an excerpt. Teacher Education: New Vistas- New Challenges. School of Education, Netaji Subhas Open University, Kolkata. National Paper presented
- 3 'Analysis of Psycho-social characteristics and ponderal index.....to poverty line. National Seminar on 'Psycho-Social perspective of Physical Education' Department

of Physical Education, Mugberia Gangadhar Mahavidyalaya, Purba Medinipur
National Paper presented

- 4 'Application of Yoga for treatment against chronic low back pain'- an excerpts. National seminar on 'Yoga and exercise: the way of living'. Pingla Thana Mahavidyalaya, Purba Medinipur, National Paper presented
- 5 'Revenue generation- A model', National seminar on latest trends and challenges for physical education and sports, Government college of Physical Education for Women, Dinhata, Coochbehar, W.B. National Paper presented
- 6 Volunteer, the Root of Success or failure. 24th Pan Asian Asian Sports & Physical Education Conference on 'Traditional sports and Modern Sports for the development of global human resource' Dept. of Physical Education and Visva-Bharati sports Board Santiniketan, Visvabharati. International Paper presented
- 7 'A study on socioeconomic status and the development through sports culture of rural women'. International congress of sports Psychology on 'Changing trends and challenges in the 21st century. Department of Physical Education, Benaras Hindu University International Paper presented
- 8 'Effect of selected exercises on balance of mentally retarded students', 'Parental involvement in the education and rehabilitation of children with special needs', Department of Education, Jadavpur University. International Paper presented
- 9 'A review study on application of Yoga for management of pain', 'Social transformation through yoga', Department of Yogic Science, Uttarakhand Sanskrit University, Haridwar International Paper presented

Courses Attended

- 01 National seminar on 'Emerging Pedagogical Issues and Priorities in B. Ed. Special Education through ODL mode", 0th June, 2016
- 02 State level workshop on revised B. P. Ed. and M. P. Ed. programme as per NCTE new regulations, 2014. 15th -17th June, 2016
- 03 UGC sponsored Short course on 'Teachers Educators' 3rdnov.- 9thnov., 2016
- 04 'In service training and sensitization of key functionaries of central and state governments, local bodies and other service providers' 5th- 8th Jan., 2017

Article Published

a. Journals

- 1 The financial viability and stability through revenue generation and its distribution in a league system: Discussion in Indian Context, Vol. 06, Issue, 04, pp. 7605-7609, April, 2016. International Journal of Development Research
- 2 An analysis of different running speed parameters which influencing sprint running, Vol. 2 issue 1, may 2016. International journal of multidisciplinary research and modern education
- 3 Sports Brand awareness: A study among the students of the Jadavpur University Volume 3, Issue 1, 2017. International Journal of Multidisciplinary Research and Modern Education
- 4 Comparison of physiological status between active and sedentary persons 4(3): 308-310 International Journal of Physical Education, Sports and Health 2017

b. Conference Proceedings

1. A study on relative performance analysis of Indian and Foreign cricketers from IPL 5 to IPL 8, Global conference on scientific culture in Physical Education and Sports (GLOCOSCPES - 2016), Panjabi University, Patiala
2. a comparative study on the coverage of selected newspapers considering the presence of PELE in India. Global conference on scientific culture in Physical Education and Sports (GLOCOSCPES - 2016), Panjabi University, Patiala
3. 'Gender', the deciding factor for print media coverage-A comparative study. Global conference on scientific culture in Physical Education and Sports (GLOCOSCPES - 2016), Panjabi University, Patiala
4. A status survey of the demand of the different types of performers in advertisements International conference on Physical Education and Sports Science, 'Emerging trends in fitness and sports sciences'
5. 'Suggestive rehabilitative exercise programme for inclusion of the special child International conference on, 'Parental involvement in the education and rehabilitation of children with special needs', Department of Education, Jadavpur University

Major Achievements

Development of e-learning delivery process/material

Sl. No./Title of Module/Recognized by/Submitted at/Delivered at

- 01 'EDUCATIONAL ADMINISTRATION AND MANAGEMENT' Module 1 of Unit I - V Module 2 of unit VI - IX. **Audio Visual mode lecture for virtual learning** at NETAJI SUBHAS OPEN UNIVERSITY, KOLKATA

Dr. Papan Mondal, Assistant Professor

Details of Abstract/ Seminar Presentation, Workshop, Session Chaired

3. A. Imitated Lectures Delivered / Session Chaired:

Sl.No./Title of the Seminar Host Institution/Year/Duration

01. National Seminar on Nutrition and Wellness. Palli Siksha Bhavana, Visva-Bharati, Sriniketan. November, 2016 2 days
02. WBCIPE National Seminar GCPEW, Dinhat & WBCIPE. March, 2017 2 days

3. B Seminar/ Workshop/Conference/Symposium Attendant:

Sl.No./Presenting Author/Title of the Paper/Host Institution/Year/Duration

01. Papan Mondal : Relationship between Jump Height and Spiked Ball Velocity of Volleyball Spike and Jump Service, GCPEW, Dinhat & WBCIPE March, 2017. 2 days
02. Papan Mondal : Exercise-A Conducive Influential Factor for Mind Palli Siksha Bhavana, Visva-Bharati, Sriniketan. November, 2016, 2 days
03. Papan Mondal : Biomechanical Factors Correlated with Spiked Ball Velocity of Front Row Volleyball Spiking, Department of Physical Education, Burdwan University. September, 2016, 2 days

3. B. Workshop details:

Sl.No./Workshop on/Host Institution/Year/Duration

01. Revised B.P.Ed and M.P.Ed Programs as per NCTE New Regulations, Department of

Annual Report 2016-17

Physical Education, Jadavpur University, Kolkata-32. July, 2016 3days

02. In-Service Training and Sensitization of Key Functionaries of Central and State Governments, Local Bodies and Other Service Providers. Ramkrishna Mission Blind Boys Academy, Narendrapur, Kolkata, The School of Education, Netaji Subhas Open University. January, 2017, 3 days

3. C. Seminar/ Workshop/Conference/Symposium Organized:

Sl.No./Workshop on/Host Institution/Year/Duration

01. Revised B.P.Ed and M.P.Ed Programs as per NCTE New Regulations. Department of Physical Education, Jadavpur University, Kolkata-32. July, 2016, 3 days

4. B. Articles Published in Journals:

Sl.No./Authors Name/ Title of the Paper/Name of the Journal /ISSN No./Year of Publication Remarks

01. 1.Pallab Ghosh **2. Dr. Papan Mondal** : Biomechanical Factors Contributing to Effective Bowling in Cricket International Journal of Physical Education, Sports and Health. 2394-1685, April, 2016. UGC Approved Journal
02. 1. Neptune Ghosh **2.Papan Mondal** 3..Prof.Sudip Sundar Das : A Study on the effects of Limb length and Arm Strength on the Ball Release Velocity in Cricket International Journal of Physical Education, Sports and Health 2394-1685 November, 2016, UGC Approved Journal

Dr. Atanu Ghosh, Assistant Professor

Details of Abstract/Seminar Presentation, Workshop, Session Chaired

3. A. Imitated Lectures Delivered/Session Chaired:

Sl.No./Title of the Seminar/ Lectures Delivered/Host Institution/Year/Duration

01. **Lectures Delivered**, Visva-Bharati, Sriniketan. 2016 4 hours
02. WBCIPE National Seminar GCPEW, Dinhata & WBCIPE. March, 2017, 2days

3. B. Seminar/ Workshop/Conference/Symposium Attendant:

Sl.No./Presenting Author/Title of the Paper/Host Institution/Year /Duration

01. Atanu Ghosh : A comparative study of hamstring muscle length and hyper extension ability of spine between B.P.Ed and M.P.Ed students, GCPEW, Dinhata & WBCIPE March, 2017, 2 days
02. Atanu Ghosh : Care for Health & Well-Being of Elite Athletes towards Performance Potentiality, Palli Siksha Bhavana, Visva-Bharati, Sriniketan, November, 2016, 2 days
03. Atanu Ghosh : A Comparative study on selected Psychological Parameters between State Level Senior and Junior Sprinters, Department of Physical Education, Burdwan University. September, 2016 2 days

3. B. Workshop details:

Sl.No./Workshop on/Host Institution/Year/Duration

01. Revised B.P.Ed and M.P.Ed Programs as per NCTE New Regulations. Department of Physical Education, Jadavpur University, Kolkata-32, July, 2016. 3days
02. In-Service Training and Sensitization of Key Functionaries of Central and State Governments, Local Bodies and Other Service Providers, Ramkrishna Mission Blind Boys Academy, Narendrapur, Kolkata, The School of Education, Netaji Subhas Open

Annual Report 2016-17

University. January, 2017, 3 days

3. C. Seminar/ Workshop/Conference/Symposium Organized:

Sl.No./Workshop on/Host Institution/Year/Duration

01. Revised B.P.Ed and M.P.Ed Programs as per NCTE New Regulations. Department of Physical Education, Jadavpur University, Kolkata-32. July, 2016, 3 days

3. D. Orientation Courses/Refresher Courses Attended:

Sl.No./Courses/Host Institution/Year/Duration

01. Orientation Courses : HRDC, Burdwan University. June 2017, 28 days

4. B. Articles Published in Journals:

Sl.No./Authors Name/Title of the Paper/Name of the Journal/ISBN No./Year of Publication

01. 1. Sanjoy Bhunia 2. Dr. Atanu Ghosh : The Assessment of relation between somatotyping and motor ability of college level male students, Seminar Proceedings, 7 Jan, 2017

SANSKRIT

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Brief History of the Department

Founded in August 1956, with Prof. Gaurinath Sastri, the celebrated Principal of the Govt. Sanskrit College, Calcutta as the Teacher-in-charge (1956-1958) and then Prof. Sadananda Bhaduri (who later donated his collection of books to the Departmental library) as its first Head of the Department (1958-1961), Jadavpur University's Department of Sanskrit, with its day and evening sections, started flourishing with a bang during the tenure of Prof. RamaranjanMukherji, who, twice pivot of the Department for a long time (1961-1970, 1971-1972), took an active interest in its multiple activities till his last days. After a brief spell of joint Headship of Prof. SitanathGoswami and Prof. Gopikamohan Bhattacharya in 1970, the former singly headed this Department twice (1970-1971, 1973-1980) for another long period, after which the Headship became rotational. The subsequent Heads were Prof. Ms. Sukumari Bhattacharji (the first woman to lead the Department, in 1981), Dr. Nirmalkanti Basu (1981-1983), Prof. Bhabaniprasad Bhattacharya (the first teacher to occupy the chair twice and the only teacher to complete his/her tenures since the introduction of rotatory Headship, in 1983-1985, +), Prof. Rabisankar Bhaerji (1985-1987), Prof. Nandita Bandyopadhyay

(1987-1989), Dr. Himansu Narayan Chakravarti (1989-1991), Prof. Manabendu Banerjee (1991-1993), Prof. Bijoya Goswami (1993-1995, +), Prof. Sarbani Ganguli (1995-1997), Prof. Bhabaniprasad Bhattacharya (1997-1999), Dr. Abhijit Ghosh (1999-2001,+), Prof. Pradyot Kumar Datta (2001-2003), Prof. Lalita Sengupta (2003-2005), Prof. Rita Chattopadhyay (2005-2006, +), Prof. Ms. Debarchana Sarkar (2006-2008), Prof. Tapan Sankar Bhattacharyya (2008-2010), Prof. PiyaliPraharaj (2010), Prof. Bijoya Goswami (2010), Prof. Rita Chattopadhyay (2011), Prof. Lalita Sengupta (2011-2012), Dr. Abhijit Ghosh (2012-2013) and the present Head being Prof. Tapan Sankar Bhattacharyya (2013-till now). As well as such stalwarts as among others the illustrious Prof. Sushil Kumar De, Dr. Kunja Gobinda Goswami, Prof. Prabodh Chandra Lahiri, Prof. Bishnupada Bhattacharya, Prof. Hemanta Gangopadhyay, Prof. Sanjukta Gupta and Dr. Chinmayi Chatterjee, luminaries like Mahamahopadhyay Srijib Nyayatirtha and noted traditional scholars like Pandits Dinesh Chandra Sastri, Bidhubhushan Tarkatirtha, Bhutesh Chandra Smrititirtha, Narmada Kumar Tarkatirtha and Ms. Durgabati Bandyopadhyay were also associated with this Department, in some way or other.

The Department earned in 1989 the University Grants Commission-recognized then rare distinction of Department of Special Assistance, with Prof. Rabisankar Banerji as its Coordinator for a life time, subsequently led by Prof. Manabendu Banerjee (acting) and Prof. Bijoya Goswami. Since 1997, it has had also a University-funded Centre for Indology, being first coordinated by Prof. Manabendu Banerjee, then by Prof. Nandita Bandyopadhyay (Joint Coordinator Prof. Debarchana Sarkar) and now by Prof. Debarchana Sarkar. Above everything else, after the Sanskrit Department of the University of Poona in the late 1960s, this Department became the second Centre of Advanced Study in Sanskrit in India in 2005, chiefly through the all-out tireless efforts of Prof. Ramaranjan Mukherji, Prof. Bijoya Goswami was its Coordinator (Joint Coordinator Prof. Lalita Sengupta) during its first phase, and the second phase of CAS-Sanskrit has been started on April 2013. And Prof. Debarchana Sarkar is the present coordinator and the Joint Coordinator is Prof. Tapan Sankar Bhattacharyya. Twice, in 1969 and 1997, the Department hosted the prestigious All-India Oriental Conference (Local Secretaries: resp. R. R. Mukherji and R. S. Banerji). Since 1996-1997, it has been regularly organizing Refresher Courses in collaboration with the UGC and the Academic Staff College of the University in umpteen thrust areas of Indology for university and college teachers from various parts of the country, with many Indian and foreign scholars of international repute acting as resource persons. It has also organised many successful national and international conferences, seminars as well as workshops on manifold Indological, especially Sanskrit-oriented topics. The UGC-sponsored Assistance for Strengthening of Infrastructure for Humanities and Social Sciences programme started in the Department since 2005, with the Head of the Department as its Coordinator, ex officio. The Department has printed and reprinted numerous scholarly works, and its research organ *Anvikcā* has been a regular publication since 1966 (till date in all 38 volumes, often divided into two parts, its recent two issues edited resp. by Prof. Rita Chattopadhyay and Prof. LalitaSengupta being humble tributes to the hallowed memories of the Department's chief architect late Professor Padmashri Mahamahopadhyay Ramaranjan Mukherji, M.A., Ph.D., D.Litt. and the entire Department's beloved teacher, late lamented motherly and sisterly Prof. Nandita Bandyopadhyay, M.A., Ph.D., D.Litt.). Prof. Tapan Sankar Bhattacharyya also awarded the rare degree, D.Litt. in the year of 2012, from the Burdwan University.

The quality of teaching-learning methodologies followed by the Department is amply reflected by the fact, inter alia, that in last five years no less than 60 of its ex-students were selected by the West Bengal College Service Commission and Public Service Commission for

Annual Report 2016-17

Lectureship in colleges under various state universities. And, this Department has started attracting foreign students for quite a few years now: Prof. Rita Chattopadhyay taught the Diploma and Advanced Diploma Courses to a German and a South Korean student in the recent past, and Dr. Abhijit Ghosh taught M.A., B.A. Honours & Extra-Departmental courses in 2007 and M.A. & B.A. Honours courses in 2008 to students from the Faculty of Oriental Studies of the La Sapienza University in Rome who opted for Sanskrit courses, subsequent to the signing of a Memorandum of Understanding on student exchange program between the Jadavpur and the La Sapienza Universities.

In short, the Department, offering no less than 9 courses, continues to thrive with 11+18 teachers, some 500 students in its two sections and an excellent Departmental library, of which the Librarian for long till her retirement was Dr. Shyamali Basu, now succeeded by Ms. Shruti Mallick, B.Sc., B.Lib-Sc., friend extraordinary for the library-users.

1. A. Courses Offered:

- B.A. Honours: 3-year under-graduate degree course, 6 semesters, intake 60 (total no. of students in 3-year classes at present: 160 approx.)
- B.A. Extra-Departmental: intake 50 (total no. of students in 2-year classes at present: 50 approx.)
- M.A. (Day): 2-year post-graduate degree course, 4 semesters, intake 70 (total no. of students in 2-year classes at present: 150 approx.)
- M.A. (Evening): 2-year post-graduate degree course, 4 semesters, intake 50 (total no. of students in 2-year classes at present: 110 approx.)
- PG-II Group: Apart from the existing five Groups or Special Papers, in 2017, introduced a separate Group named Nyāya Philosophy
- M.Phil.: 2 years, intake 15 (total no. of students in 2-year classes: 7)
- Ph.D. (many students attached with individual teachers)
- Certificate Course: 1 year, Language Studies, intake 20
- Diploma Course: 1 year, Language Studies, intake 20
- Advanced Diploma Course: 2 years, intake 10

(Note: the number of students at present in the last three courses is not known since these Courses fall under the Language Studies Centre)

1. B. Number of Faculty Members(2016 –2017):

11 whole-time teachers and 18 guest faculty and part-time lecturers (day and evening sections).

Prof. Bijoya Goswami (July 2016) and **Prof. Sarbani Ganguli** (October 2016) has superannuated from the Department. One new teacher will be joining on July, 2017. A Librarian, Mr. Nimai Sardar has recently joined the Departmental library.

Whole-time Teachers: names, degrees etc. and areas of interest

(Master degrees of the teachers are in Sanskrit, unless otherwise specified, and Ph.D. and M.Phil. degrees are in Arts.

Abbreviations: BU = University of Burdwan, CU = University of Calcutta, JU =

Jadavpur University, PU = University of Poona, RBhU = Rabindra Bharati University, Kolkata, VBh = Visvabharati [University], Santiniketan)

Professors

BIJOYA GOSWAMI, M.A. (JU), Ph.D. (JU)

Area of Interest: Classical Sanskrit Literature & Literary Criticism, Linguistics

RITA CHATTOPADHYAY, M.A. (CU), Ph.D. (CU)

Recipient of Griffith Memorial Prize (CU)

Ex-Professor of Sanskrit, RBhU

Emeritus Professor of Jadavpur University

Area of Interest: Modern Sanskrit Literature, Classical Sanskrit Literature and Literary Criticism

SARBANI GANGULI, M.A. (CU), M.Phil. (JU), Ph.D. (JU)

Gita-Prabhā (Lucknow Bhatkhande University)

Pramathes Barua Awardee in Music (Kolkata)

Present Joint Coordinator, Centre for Indology, JU

Area of Interest: Nyāya-Vaiśeṣika Philosophy, Classical Sanskrit Literature & Literary Criticism, rendition of Sanskrit as well as modern Hindi & Bengali songs

DEBARCHANA SARKAR, M.A. (CU), Ph.D. (CU)

Diploma in Pali (CU) & German (School of Languages, JU)

Present Coordinator, CAS (Phase II) & Centre for Indology, JU

PI, Project on Sanskrit Manuscripts under UGC-UPE II

Area of Interest: Ancient Indian History, Epigraphy & Palaeography, Arthaśāstra, Classical Sanskrit Literature

LALITA SENGUPTA, M.A. (CU), Ph.D. (JU)

Area of Interest: Vedānta Philosophy, Classical Sanskrit Literature

PIYALI PRAHARAJ, M.A. (CU), M.Phil. (CU), Ph.D. (JU)

Area of Interest: Smṛti Literature, Arthaśāstra

TAPAN SANKAR BHATTACHARYYA, M.A. (JU), Ph.D. (JU), D.Litt. (BU)

Kāvya-Vyākaraṇa-Tarkatsārtha, Vyākaraṇācārya

Formerly of the Calcutta Campus of Rashtriya Sanskrit Sansthan, New Delhi

Recipient of 'Vyāsaśrī' National Award (2016) –Maharshi Vyasadev National Research Institute, Vedavyas, Rourkela – 4, Odisha

Area of Interest: Pāṇinian System of Sanskrit Grammar, Nyāya-Vaiśeṣika Philosophy

Assistant Professors

SHIULI BASU, M.A. (VBh), Ph.D. (VBh)

Area of Interest: Classical Sanskrit Literature & Literary Criticism

KAKALI GHOSH, M.A. (CU), Ph.D. (CU)

Area of Interest: Vedānta, Sanskrit Bddhist Literature, Pāninian and non-Pāninian Grammar, Palaeography, Manuscriptology

DEBDAS MANDAL, M.A. (JU), B.Ed., Ph.D. (JU)

Jt. Coordinator of the PG Evening Courses in Arts of the Department of Sanskrit, JU, 2017-2018

Programme Officer, National Service Scheme (JU)

Area of Interest: Smṛti Literature, Arthaśāstra, Ancient Indian History & Epigraphy

CHINMAY MANDAL, M.A. (JU), Ph.D. (JU)

Area of Interest: Nyāya-Vaiśeṣika Philosophy, Pāninian System of Sanskrit Grammar

Guest Lecturers and part-timers (day and evening sections)

Dr. Rabindranath Bhattacharya (Veda), Dr. Ananya Mitra (Epigraphy), Dr. Nandini Bhowmik (Epigraphy), Dr. Pradip Chandra Das (Veda), Dr. Monidipa Das (Kāvya); Part-timers: Dr. Nabanarayan Bandyopadhyay (Veda), DR. Indrani Kar (Veda), Dr. Ashok Kumar Mahata (Veda), Dr. Dilip Panda (Veda), Dr. Amal Kumar Bhattacharyya (Literature), Dr. Kartik Chandra Khatua (Literature), Dr. Sonali Bose (Literature), Dr. Sharbani Chattopadhyay (Literature), Dr. Susmita Goswami (Epigraphy), Dr. Rajat Sanyal (Epigraphy), Dr. Swarup Singha (Grammar), Dr. Nilanjana Sikdar Dutta (Veda), Dr. Ruma Bandyopadhyaya (Sāṃkhya and Yoga Philosophy), Dr. Radhanath Acharya (Literature).

Office staff

The office staff of the Department includes Shyamal Roy, H.S., Senior Assistant, Pradip Chowdhury, H.S., Senior Peon and Anil Sarkar, Peon, all of whom have by now identified themselves with the Department. The Librarian of the Departmental Library Sruti Mallick always cooperates heartily with the teachers and students. The lovable library assistant is Saumya Majumdar, Sorter, caring for the students as far as practicable.

2. Broad Areas of Research Activities:

- I. Vedic Studies
- II. Grammar and Indian Linguistics
- III. Indian Philosophical Systems
- IV. Literature, Literary Criticism, Drama and Dramaturgy
- V. Smṛti Literature
- VI. Epigraphy and Manuscriptology

Ongoing Individual Research Projects:

Debarchana Sarkar:

Projects under Prof. Debarchana Sarkar, Coordinator, CAS-Sanskrit (Phase II).

Aśokan Inscriptions: Andhra Pradesh sites Erragudi Rajulamandagiri: Prof. Debarchana Sarkar (Investigator), Prof. Susmita Basu Majumdar, AIHC, CU (Co-Investigator).

Reading Epigraphic Records of Early Kāmarūpa: Understanding State, Society and

Economy: Prof. Debarchana Sarkar (Investigator), Prof. Suchandra Ghosh, AIHC, CU (Co-Investigator).

The Critical Edition of 'Ekallavīracanḍamahāroṣaṇatantra' : Prof. Debarchana Sarkar (Investigator), Dr. Rita Bhattacharya (Co-Investigator).

An Annotated Geographical Glossary of Inscriptions of Eastern India: Prof. Debarchana Sarkar (Investigators), Dr. Rajat Sanyal, Archaeology, CU (Co-Investigator).

A Study of the Natural Resources and Land Based Economy in the Kalachuri Era Records (7th to the 12th centuries): Prof. Debarchana Sarkar, Investigator, Prof. Nupur Dasgupta Prof, Dept. of History, J.U. (Co-Investigator).

Statement of imprecation in inscriptions of South-Asia: a comprehensive study: Prof. Debarchana Sarkar (Investigators), Dr. Rajat Sanyal, Archaeology, CU (Co-Investigator).

A Critical analysis of Gajaśāstram and Kalpanāratnam in the light of available epigraphic references: Prof. Debarchana Sarkar, Prof. Bijoya Goswami (Retd. Professor, JU), Prof. Susmita Basu Majumdar, AIHC, CU (Co-Investigators).

Epigraphic Tool: Texts, Languages and Historical Concepts Prof. Debarchana Sarkar (Investigator), Prof. Susmita Basu Majumdar, AIHC, CU (Co-investigator).

A Corpus of Inscriptions from Bihar Prof. Debarchana Sarkar (Investigator), Prof. Susmita Basu Majumdar, AIHC, CU (Co-investigator).

A literary and linguistic analysis of select Upapurāṇas (Investigators: Prof. Debarchana Sarkar, Dr. Shiuli Basu, Dr. Reeta Bhattacharya, Project Fellow, Asiatic Society, Dr. Anasua Bhowmik, Project Fellow, Asiatic Society).

Project on Sanskrit Manuscripts under UGC-UPE II : Principal Investigator

Tapan Sankar Bhattacharyya:

At present doing a project on 'Paniniya Paribhasika - Sabdakosa', under CAS, Sanskrit, Jadavpur University.

Kakali Ghosh:

At present doing a project on "Neuro-scientific paradigm of Sleep vis-a-vis an approach to Sleep in Indian Tradition", under CAS, Sanskrit, Jadavpur University.

Debdas Mandal:

Project on Nītiśāstrīya-pāribhāṣika-śabdakoṣaḥ based on principal Sanskrit Nīti text.

3. A. Invited Lectures Delivered/ Papers Presented in Refresher or Orientation or Summer Courses/Seminars/Workshops/Conferences/Symposia/Colloquia & c.:

Sarbani Ganguli:

Delivered lecture as Resource person, Two-day National Seminar on 'God and Universe', Dept. of Sanskrit, Mugberia College, VU(22-23 November 2016)

Delivered lecture as Resource person, Two-day National Seminar on 'Music, its impact on human body and soul', Dept. of Philosophy and Music, Mugberia, VU (December 2016)

Delivered lecture as Resource person Two-day National Seminar on 'Vedanga and allied subject' Dept. of Sanskrit, Jadavpur University (January 2017)

Delivered lecture as Resource person, One-day International Seminar on "Ethics in Sanskrit Literature", Dept. of Sanskrit, Vidyaasagar University (31st March 2017)

Debarchana Sarkar:

Delivered lectures on “History of Indian Writing, Characteristic features of Indian Scripts and Methodology and Problems of Epigraphic Researches”; Workshop organised by Dept. of Sanskrit, Vivekananda University, Belur Math, 1, 2 April, 2016

Invited Lecture - Delivered lecture on “Epigraphic Evidence from Ancient Bengal”; organised by Dept. of History, JU, 21.04.16

Invited Lecture - Delivered lecture on “Deopara Prashasti of Vijayasena”; organised by Dept. of Ancient Indian History and Culture, CU, 06.05.16

Invited Lecture - Delivered lectures on “Pratimalakshana, a text on Buddhist Iconography”; organised by Centre for Buddhist Studies, Dept. of Philosophy, JU, 20.05.16 & 23.05.16

Delivered lecture on “Epigraphical Hybrid Sanskrit Language”; Workshop (National) organised by Dept. of History, Jadavpur University and The Asiatic Society, Kolkata, 15.09.16

Delivered lecture on “Sanskrit language of Inscriptions”; Workshop organised by The Asiatic Society, Kolkata, 27.09.16

Invited Lectures - Delivered lectures on 4 different topics; organised by Central University of Odisha, Koraput, between October 17 and 27, 2016

Delivered lecture on “Antiquity of writing in Indian subcontinent”; Workshop on Manuscriptology and Paleography - organised by Dept. of Sanskrit, Vivekananda University, Belur Math, 3 December 2016

Tapan Sankar Bhattacharyya:

Resource Person and invited to deliver a lecture at Bajkul Milani Mahavidyalaya, Purba Medinipur on 19th September, 2016.

Resource Person and invited to deliver a lecture at Dakshin Barasat Dhrubachand Halder College on 4th October, 2016.

Delivered a lecture on “Vedāngas: language, religion, philosophy and science” in the Two-day National Seminar at the Department of Sanskrit, Jadavpur University on 19th & 20th January, 2017.

Resource Person and delivered a lecture at the Asiatic Society on 21st February, 2017.

Shiuli Basu:

Invited Speaker in UGC sponsored National level Seminar on “Pancha-Kanya-India’s Ideal of Perfect Womenhood in Sanskrit Literature : Equally Relevant in Modern Days” organised by Department of Sanskrit, Dhruba Chand Halder College, Dakshin Barasat, South 24 Pgs., 4-5 October, 2016 and presented a paper entitled “The Characteristics of Tara : A Bird’s Eye View”

Presented a paper entitled “Essence of *Upamālakṣa* as reflected in Dhammapada” in 48th Session of All India Oriental Conference, Haridwar, organised by Uttarakhand Sanskrit University and University of Patanjali, 12-14 November, 2016

Presented a research paper entitled “সংস্কৃত অলঙ্কারশাস্ত্রে উৎপ্রেক্ষা - নানারূপে” in the 1st ABSLA State Sanskrit Conference, organised by All Bengal Sanskrit Lovers’ Association, held on 12-13 December, 2016, Kolkata

Kakali Ghosh:

Annual Report 2016-17

Delivered 10 (ten) lectures (each of two hours) on *Īsopaniṣad* and *Kenopaniṣad* as Resource Person in the National Level Course on 'The Wisdom of the Upanishads' conducted by Kaivalyadhama Gurukul in association with the Philosophico-Literary Research Department, Kaivalyadhama, Lonavla during June 20-29, 2016.

Invited speech on "Bibliography, Reference, Punctuation Marks & Basic Computer" on September 27, 2016 (5-7pm) and October 3 (5-7pm) in the workshop on 'Sanskrit Language & Literature: A methodological Approach to Research' during September 27 – October 3, 2016 at Ramakrishna Mission Vidyamandira, Belur Math.

Delivered an invited talk on "Ahalyā" on 5th October, 2016 in the UGC-sponsored National Seminar on "Pancha-Kanya- India's Ideal of Perfect Womenhood in Sanskrit Literature: Equally Relevant in Modern Days", organised by the Department of Sanskrit, Dhruva Chand Halder College in collaboration with Department of Sanskrit, Jadavpur University, held during October 4 - 5, 2016.

Presented a paper titled "Vrata and Ālpanā of Bengal: Demystifying Symbolic Art" in the International Seminar on 'Symbolism in Indian Art, Archaeology and Literature' held at Deccan College PG and Research Institute Deemed University, Pune during December 1 – 3, 2016.

Delivered an invited talk on 15th February 2017 in the UGC-Sponsored National Seminar on 'Manuscripts of Unpublished Sanskrit Texts: Search and Utility' organised by School of Vedic Studies, Rabindra Bharati University on February 14 - 15, 2017.

Delivered an invited speech titled "Administration in the modern Education System of India: in the light of *Dharmaśāstras*" in the National Seminar on 'Ethical foundation of Administration: In the light of *Dharmaśāstra*' in the Department of Sanskrit, North Bengal University on 30th March 2017.

Taken classes on ancient Indian scripts and conducted practical sessions in the Workshop on Manuscriptology (29 March – 13 April 2016) on April 2, 4, 9, 11, 2016 at RKM Vivekananda University, Belur.

Taken classes/Delivered invited lectures (total 12 hours) on 'Research Methodology' in the Department of Sanskrit (M.Phil.) in Ramakrishna Mission Vidyamandira, Belur Math on February 4, 18 & 25, 2017 and March 4 and 11, 2017.

Debdas Mandal:

5.10.2016 : Invited lecture on '*Draupadīmananerajanīti : ektiādhunikavīk'āṇa*' in the UGC Sponsored National Seminar on "Panchakanya- India's Ideal of Perfect Women hood in Sanskrit Literature : Equally Relevant in Modern Days" Organised by Department of Sanskrit, Dhruva Chand Halder College, Dakhin Barasat.

12.11.2016 - 14.11.2016 : Presented a Paper on '*Hitopadeśepṛāchinabhāratīya dharmā nīteranusandhānaṃ*' in the 48th Session of All India Oriental Conference, Organised by Uttarakhand Sanskrit University & University of Patanjali, Haridwar.

28 & 29.1.2017: Presented a Paper on '*Purānerālokekalira dharmā anusandhāna : ektisamīk'ā*' in the All India Sanskrit Conference, organised by Howrah Sanskrit Sahitya Samaj, Howrah.

17.2.2017-18.2.2017 : Invited lecture on '*śruti-śmṛtiśāstrayopāpasyasvarūpaṃ: tasyāādhunikatātparyampratīkāraṇca*' in the UGC Sponsored two-day National Seminar on 'Influence of Vedic Literature on Smṛti-śāstra & its congeniality in Modern Age' organised by the Department of Sanskrit, Gobardanga Hindu College.

Annual Report 2016-17

18th & 19th 3.2017 : Invited lecture on ‘*Vartamanyugeśmṛti-śāstra o mūlyabodha : ekatiādhunikasamik’a*’ in the UGC Sponsored two-day National Seminar on ‘Relevance of Sanskrit Education in Modern India’ organised by the Department of Sanskrit, Berhampore College. Murshidabad.

Chinmay Mandal:

Invited lecture on মহাভারতে কুন্তী: পরবর্তী সাহিত্য ও আধুনিক সমাজে তাঁর চারিত্রিক প্রতিফলন” in the Two-day UGC National Seminar on “PANCHA KANYĀ: India’s Ideal of Perfect Womanhood in Sanskrit Literature-Equally Relevant in Modern Day”, on 5th October 2016.

Presented a paper on “*Pāṇinīya-vyākaraṇasyavedāṅgatvam*” in the All India Sanskrit Conference held on 28th & 29th January, 2017 organised by Howrah Sanskrit Sahitya Samaj, Howrah.

3. B. Sessions Chaired in Seminars/Workshops/Conferences/Symposia/Colloquia/Refresher Courses etc.:

Shiuli Basu:

Acted as Deputy Chairperson of an academic session in the 1st ABSLA State Sanskrit Conference, organised by All Bengal Sanskrit Lovers’ Association, held on 12-13 December, 2016, in Kolkata.

Kakali Ghosh:

Chaired an Academic Session (29 January 2017) in the All India Sanskrit Conference, organised by Howrah Sanskrit Sahitya Samaj on 28 - 29 January 2017.

3. C. Seminars/Workshops/Conferences/Symposia/Colloquia & c. Arranged/Coordinated/Conducted/Convened:

Debarchana Sarkar:

Organised Series of Lectures on “Research Methodology” under Centre for Indology, Dept. of Sanskrit, JU, through September 2016

Organised a Workshop as Principal Investigator on “Metrics and Poetics” under UPE II, JU; Nov. 22-26, 2016

Organised a Workshop (International) as Coordinator on “Sanskrit, Pali and Prakrit Grammar” under Centre for Indology with financial Assistance of UGC XII Plan; Dec. 22-31, 2016

Organised a Seminar (National) as Coordinator of CAS-Sanskriton “Literature and Inscriptions: Texts and Contexts” under CAS-Sanskrit Phase II; 21 and 22 March, 2017

Visited Varanasi (BHU, Bharat Kala Bhavan, Central University of Tibetan Studies and Sarnath Museum) for Fieldwork under CAS-Sanskrit from 22.01.17 to 26.01.17

Kakali Ghosh:

Conducted four practical sessions (2/3 hours each) in the Workshop on Manuscriptology (21 November – 6 December 2016) at RKM Vivekananda University, Belur.

Conducted academic session (3 hours) on ancient Indian scripts (Nandi-Nāgarī & Siddhamat[kā]) in the Workshop on Manuscriptology & Palaeography (December 1 - 22, 2016) on December 21, 2016, organised by Gaudiya Mission Para-Vidyapeeth Research Institute in collaboration with National Mission for Manuscripts.

Conducted three classes [1.15-2.15 p.m. (28 Dec. 2016) & 3.00-5.15 p.m. (31 Dec.

2016)] as a Resource Person in the 7-day (22-23 Dec. and 27-31 Dec. 2016) International Workshop on Sanskrit, Pali and Prakrit Grammar, held under the Centre for Indology, Department of Sanskrit with financial support from UGC XII Plan Grant, Jadavpur University, Kolkata.

Directed and presented the Sanskrit Drama “Ratharajju” on 27th December 2016 in the Cultural Program arranged on the occasion of the Three-day International Seminar on ‘Logic, Ethics & Epics: Homage to Professor Bimal Krishna Matilal’, organised by ICPR Centre for Buddhist Studies, Department of Philosophy, Jadavpur University, held from 27 – 29 December 2016.

Convened a 7-day (22-23 Dec. and 27-31 Dec. 2016) International Workshop on Sanskrit, Pali and Prakrit Grammar, held under the Centre for Indology, Department of Sanskrit with financial support from UGC XII Plan Grant, Jadavpur University, Kolkata.

Convened a two-day National Seminar on ‘Literature and Inscriptions: Texts and Contexts’ from 21st to 22nd March, 2017, organised by the Centre for Advanced Studies (CAS) Phase II, Department of Sanskrit, Jadavpur University, Kolkata.

Debdas Mandal:

19.1.2017 - 20.1.2017: Coordinated two-day National Seminar on ‘Veda Egas: language, religion, philosophy and science’ Organised by Department of Sanskrit, J.U.

16.02.2017. Coordinated ‘the Sanskrit Day Celebration’ Organised by Dept. of Sanskrit, J.U.

Chinmay Mandal:

Jointly conducted Two-day National Seminar on “Vedā Egas: language, religion, philosophy and science,” organised by the Department of Sanskrit, Jadavpur University, on 19th & 20th January, 2017

3. D. Orientation or Refresher or Summer Courses/ Seminars/ Workshops/ Colloquia Attended as Observer & Hearer:

Sarbani Ganguli:

Seminar attended as Resource person on Tarkasamgraha, AKPC Mahavidyalaya, B.U., Bengai, Hooghly (Nov.2016)

Tapan Sankar Bhattacharyya:

Attended Three Day National Seminar on “Three Major Schools of Vedanta” organised by Ramakrishna Mission Vivekananda University, Belur Math in collaboration with Sri Venkateswara Vedic University, Tirupati on 1st to 3rd March, 2016.

Shiuli Basu:

Participated in the five-day workshop on “Poetics and Metrics in Sanskrit and allied literature” organised under the UGC-UPE II, Jadavpur University, 22-26 November, 2016

Participated in the Short Term Course titled as “Use of Information Resources in Research and Development”, conducted by UGC, Human Resource Development Centre, Jadavpur University, 05-11 January, 2017

Attended the Three-day National Seminar entitled “Ancient Indian Science vis-ā-vis Modern Scientific Theories, Discoveries and Development” organised by Sanskrit SahityaParishat, Kolkata, 25-27 March, 2017

Debdas Mandal:

19.06.2016 - 25.06.2016 :Attended the Ministry of Youth Affairs & Sports, Govt. of

Annual Report 2016-17

India Sponsored 4th Orientation Course, organised by Department of Youth Affairs, Ramakrishna Mission Ashrama, Narendrapur, Kolkata.

19.11.2016 : Attended the National Level Seminar on 'Higher Education In India : Road Ahead', organised by Department of Adult Continuing Education & Extension (DACEE), J.U. in Collaboration with WBCUTA. RKMIC, Golpark, Kolkata.

22.11.2016 - 26.11.2016 : Attended A five-day workshop on Poetics and Metrics in Sanskrit and allied literature Organised under the UGC-UPE II, Jadavpur University.

22-23.12.2016 and 27-31.12.2016 : Attended A Seven-Day International workshop on Sanskrit, Pali and Prakrit Grammar Organised by centre for Indology, Dept. of Sanskrit, J.U.

5.01.2017-11.01.2017 : Participated in the *Short Term Course* for College and University Teachers/Librarians on *Use of Information Resources in Research and Development* Organised by UGC, HRDC, JU.

20-21 & 27-31.3.2017 : Attended the Seven days Special Lecture Programme on *Mimāṃsā*, organised by The CAS, Phase II, Dept. of Sanskrit, Jadavpur University.

Chinmay Mandal:

Participated One-day State-level Seminar on "Nyāya Philosophy: Commemoration of 100 years of Pandit Viswabandhu Bhattacharyya", on 15th September, 2016, organised by the Department of Philosophy, Jadavpur University

Attended a Five-day Workshop on "Poetics and Metrics in Sanskrit and allied literature" organised under the UGC-UPE II, Jadavpur University, from 22nd to 26th November, 2016.

Attended two-day Workshop on Navya Nyāya held on 17th & 18th December 2016, organised by Howrah Sanskrit SahityaSamaj, Howrah.

Attended in the Short Term Course for College and University Teachers/Librarians titled as "Use of Information Resources in Research and Development" from January 5th – 11th, 2017 jointly organised by the Department of Library and Information Science and HRDC.

Participated in the National Level Research Oriented Workshop on "Bhaṣāparicchedaḥ (Anumānakāṇḍaḥ)" jointly organised by the Swami Vivekananda Research Centre and Department of Sanskrit, R. K. M. Vidyamandira on 21, 25, 26 March & 1, 4, 8, 11, 18, 22, 25 April 2017.

3. E. Orientation or Refresher or Summer Courses/ Seminars/ Workshops/ Colloquia Organised:

Debarchana Sarkar:

Coordinated a short term (24 weeks) Certificate Course in Manuscriptology and Palaeography (Dec. 2016- June 2017) under the Department of Adult, Continuing Education and Extension, JU

4. B. Articles Published in Journals, etc.:

Bijoya Goswami:

"Prof Manabendu Banerjee — The Human Being and the Scholar", 'Anviksa', Research Journal of the Dept. of Sanskrit, J.U. (Vol. XXXVII, Manabendu Banerjee Commemoration Volume, March 2016), ISSN:0587-1646

“Elephants and *Nāgavanas* in Ancient India”, ‘Anviksa’, Research Journal of the Dept. of Sanskrit, J.U.(Vol. XXXVII, Manabendu Banerjee Commemoration Volume, March 2016)

“*Prācīnabhārateupajāti o upajātīyasamskṛti*”, (Bengali)—Baranrekha “Aranyaparba”, Editor & Publisher: Arup Basu, 2016

“*Samskṛtasāhityehāsyarasa -Āntarjātik Pāṭhśālā*”, Ed. Amit Ray, Vol. VI, October-December 2016, ISSN : 2230-9594

Debarchana Sarkar:

“প্রাচীন ভারতীয় ইতিহাসের নির্মাণ : কল্পনার অধিকার।” ইতিহাস অনুসন্ধান, জানুয়ারি ২০১৭

“Linguistic and Grammatical Peculiarities of Select Post-Aśokan Pre-Gupta Inscriptions”– in *Anvikṣā*: Research Journal of the Department of Sanskrit, (Vol.37) JU

Lalita Sengupta:

“*Viśiṣṭādvaitamateśabdapramāṇam*” – published in *Anvikṣā*, Vol. XXXVIII, March, 2017

Tapan Sankar Bhattacharya:

Published a research article in the ‘Sahṛdayabharati’, Felicitation volume tribute to Dr. Sitanath Acharya Śāstrī on June 2016.

Published a research article in the book, ‘Ajānā Manush Vivekananda’ published by Department of Education, Jadavpur University in the month of January 2017.

Published an article in the ‘Anvikṣā’ Referred journal (Vol. – XXXVIII) in the Department of Sanskrit, Jadavpur University on March, 2017.

Shiuli Basu:

Bengali Translation of two Modern Sanskrit Poems, in *Suinho Street*, Śārada Samkhyā, 2016.

“*Śabda-Śakti and Hitopadeśa : A few words*” - in *Anvikṣā*, Research Journal of the Department of Sanskrit, Vol. XXXVIII, March 2017. ISSN-0587-1646.

Kakali Ghosh:

Bengali Translation of six (06) Modern Sanskrit Poems, in *Suinho Street*, Śārada Samkhyā, 2016.

“Bhāratīya Sāmājik(a) Itihās(a) Citraṇe Bauddha-Bauddhik(a) Avadān(a)”, in *Bhāratīya Sāmājik(a) Itihās(a): Anūrdhva 30-er(a) Kalame [The Socio-History of India: a collection of essays by below 30 aged Essayist]*. Kolkata: Avishkar, December 2016. ISBN 978-93-83521-52-4. (pp. 52-67).

“Reflections on yogic concepts embedded in the *Vālmīki-Rāmāyaṇa*” in *Anvikṣā*, Research Journal of the Department of Sanskrit, Vol. XXXVIII, March 2017. ISSN-0587-1646. (pp. 131 – 142).

Debdas Mandal:

“*Samskṛtanītikathāraālokesujana o durjanersvarūpaanveṣaṇa*” in *Anvikṣā*, Research Journal of the Department of Sanskrit, Vol. XXXVIII, March 2017 (ISSN: 0587-1646)

Chinmay Mandal:

প্রাচীন ন্যায়ের নিশ্চেষ্ট লাভে বাদ, in *Anvikṣā*, Research Journal of the Department of Sanskrit, Vol. XXXVIII, March, 2017 (ISSN: 0587-1646), Pp. 149-153

5. Research Guidance:

Debarchana Sarkar:

Candidates awarded Ph.D. -1 (Smt. Devasmriti Jana)

Candidates awarded M.Phil. - 1 (Smt. Shefali Mandal)

Tapan Sankar Bhattacharyya:

Candidates awarded Ph.D. - 3

Candidates awarded M.Phil. - 3

Shiuli Basu:

Candidates awarded Ph.D. - 1

Kakali Ghosh:

Candidates awarded M.Phil. -3

6. Major Achievements:

Leaderships in Academic Bodies:-

Rita Chattopadhyay:

Elected as Emeritus Professor of Jadavpur University.

Sarbani Ganguli:

Member of selection committee, College Service Commission (February 2016-July2016).

Member, Ph.D. committee, Bankura University and Vidyasagar University.

Member, BOS, UG and PG, Vidyasagar University.

Member, BOS, UG and PG, Midnapur College (Autonomous), Vidyasagar University.

External subject expert, Distance Education, Vidyasagar University.

Subject expert, Career Advancement Scheme (CAS), Vidyasagar University.

External Subject expert, Examination Committee, North Bengal University.

Visiting Faculty (7 Days), Vidyasagar University, (March 2017).

Debarchana Sarkar:

Coordinator, Centre for Advanced Studies (Phase II), Sanskrit, JU

Coordinator, Centre for Indology, JU

Nominated member of Doctorate Committee JU & Departmental Ph.D. Committee of Sanskrit, Tripura University

Principal Investigator,UGC-UPE IIPProject on Critical Edition on Sanskrit Scientific and Philosophical Manuscripts. Several texts from manuscripts are being edited.

Member, BOS (PG & UG), Board of Moderators: Universities of Calcutta (UG), Burdwan (UG), School of Vedic Studies (PG Diploma)

Appointed supervisor of James Prinsep Fellow Smt. Minakshi Banerjee by the Asiatic Society, Kolkata

Lalita Sengupta:

External BOS Member: Deptt. of Sanskrit, Sidho-Kanho-Birsha University

External Member: DRC, Deptt. of Sanskrit, The Burdwan University

Tapan Sankar Bhattacharyya: 255

Annual Report 2016-17

Honoured with 'Vyāsaśrī' National Award from Maharshi Vyasadev National Research Institute, Rourkela, Odisha in the month of August, 2016.

Member of B.O.S. at the Department of Sanskrit, Vidyasagar University.

Member of B.O.S, Sanskrit in the Post Graduate course, Department of Sanskrit, Midnapore College (Autonomous).

Guest Lecturer in the Dept. of Sanskrit, Ramakrishna Mission Vivekananda University from January 2016 to June 2016 and from July 2016 to till now.

Selected as a member of various UGC Expert Committee Meeting for Sanskrit Subject for three times from January 2017 to February 2017.

N.S.S. programme officer of the Jadavpur University unit.

Debdas Mandal:

Jt.Co-ordinator of the PG Evening Courses in Arts of the Department of Sanskrit, JU, 2017-2018.

Programme Officer, National Service Scheme (JU)

Chinmay Mandal:

Teacher-Mentor for Anti-Ragging Programme, Arts Faculty, 2016-17

7. Highlights:

Departmental:-

UGC sponsored National level Seminar on "Pancha-Kanya-India's Ideal of Perfect Womenhood in Sanskrit Literature : Equally Relevant in Modern Days" organised by Department of Sanskrit, Dhruva Chand Halder College, Dakshin Barasat, South 24 Pgs. In collaboration with Department of Sanskrit, Jadavpur University; 4-5 October, 2016

Two-day National Seminar on "Vedāᅅgas: language, religion, philosophy and science," organised by the Department of Sanskrit, Jadavpur University, on 19th & 20th January, 2017

A two-day National Seminar on 'Literature and Inscriptions: Texts and Contexts' from 21st to 22nd March, 2017, organised by the Centre for Advanced Studies (CAS) Phase II, Department of Sanskrit, Jadavpur University, Kolkata

Centre for Indology

A 7-day (22-23 Dec. and 27-31 Dec. 2016) International Workshop on Sanskrit, Pali and Prakrit Grammar, held under the Centre for Indology, Department of Sanskrit with financial support from UGC XII Plan Grant, Jadavpur University, Kolkata.

Series of Lectures on "Research Methodology" organised under Centre for Indology, Dept. of Sanskrit, JU, on September 2016

SOCIOLOGY

Phone : +91- 33-2414-6058

Int. : 2457-2555

Annual Report 2016-17

H.O.D. : Prof. Dalia Chakrabarti
E-mail : hod@social.jdvvu.ac.in
hod.sociology@jadavpuruniversity.in

1.A Courses Offered:

- a. Ph D
- b. M Phil, 2 years, 17 students
- c. MA, 2 years, 42 students
- d. BA Hons., 44 students
- e. 2 ED courses at UG level (old syllabus)
- f. 4 GE courses at UG level (under CBCS scheme)
- g. A compulsory Sociology course at UG level for all Departments under Engineering Faculty
- h. One-year PG Diploma Course in 'Society, Religion and Social Work', under Centre for the Study of Religion and Society

1. B. Number of Faculty Members: 4, 1 (superannuated), 3 (guest teacher)

Professor Amites Mukhopadhyay

2. A. Area of Research Activities:

Landscape governance and development; questions of identity formation and institutional histories of science and knowledge making in South Asian Context.

3. A. Invited Lectures Delivered/Sessions Chaired:

Delivered invited lecture on "Human Rights: A Sociological Perspective and Human Rights and Justice: Reflecting on the Social" on 26 November, 2016 in UGC Refresher Course on *Human Rights and Social Justice* organized by Department of Law, University of Calcutta on 15 November -5 December 2016.

Delivered invited lecture on "Qualitative Research Methods" at the UGC-HRDC sponsored short term *Research Methodology programme* at the Department of Economics, Jadavpur University during 09-14th January 2017.

Delivered invited lecture on "Inclusive City and Sustainable Development" at UGC Sponsored Refresher Course on *Built Environment and Sustainable Technologies* organised by department of Architecture at jadavpur University on 4th January 2017.

Delivered invited address on "Human Rights : Some Opening Thoughts" at the UGC sponsored national seminar on *Human Rights: Challenges and Perspectives in Indian Context*.

3. B. Seminars/Conferences/Symposia/Attended:

Attended and Presented paper on "Methodological issues in the writings of M.N. Srinivas, N.K. Bose and Surajit Sinha" at the workshop on *Indian Sociological Tradition* organised by Department of Sociology North Bengal University under its SAP-DRS-II (UGC) programme held on 28-29 March, 2017.

3. E. Orientation and Refresher Courses Organised:

Acted in the capacity of Course Coordinator in organising a course on *Contemporary*

Cultural Studies under the MHRD scheme of Global Initiative of Academic Networks (GIAN) at the School of Media, Communication and Culture at Jadavpur University held on 5th-17th December 2016. The course was conducted by Prof. John Hutnyk from Graduate Institute for Social Research and Cultural Studies, National University of Chiao Tung, Taiwan and RMIT University, Melbourne, Australia. The course was well attended by university and college teachers, PhD and MPhil students and independent researchers.

6. Major Achievements

Oxford bookstore Calcutta in collaboration with Cambridge University Press launched my book on *Living with Disasters: Communities and Development in the Indian Sundarbans* published in February 2016 by Cambridge University Press at the Oxford Bookstore in Kolkata on 6th April, 2016. A panel, consisting of Prof. Suranjan Das, Vice-Chancellor, JU, Prof Ranabir Samaddar, Professor Contemporary Studies on Forced Migration from Calcutta Research Group and Prof. Roma Chatterji from Department of Sociology, Delhi School of Economics, was organised to reflect on the book. The event was well attended by academics, activists, scholars.

DR. PIYALI SUR, ASSISTANT PROFESSOR

1. A. Courses Taught:

Indian Society: Selected Issues in M.A First Year, First Semester (June -December); Social Statistics; Sociology of Gender in M.A. Second Year, Second Semester (January – June); Sociology of Crime, Deviance and Human Rights at the M.Phil Level.

2. A. Area of Research Activities : (Broad Areas)

Sociology of Gender, Sociology of Childhood, Sociology of Crime and Deviance

3. A. Invited Lectures Delivered/Sessions Chaired:

Chaired Session II RC-24 (Sociology of Childhood and Youth) at 42nd All India Sociological Conference held at Tezpur University on 27th-30th December, 2016.

Invitee Speaker in a UGC Sponsored two day National Seminar on India and her Neighbours: Exploring the Social, Political and Historical Dynamics organized by the departments of Sociology, Political Science and History at SonarpurMahavidyalaya held on 6th and 7th March, 2017.

Delivered a seminar talk on “Conversations on Gender” on 7th march, 2017 at The Heritage Academy.

Resource Person on 8th March, 2017 in a two day State level seminar on ‘Gender and Women’s Studies’ at Scottish Church College.

3. B. Seminar/Workshop/Conference/Symposium Attended:

(Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)

Papers Presented at International Conferences:

Presented a paper entitled ‘**Children, Gender, Class and Fashion in Kolkata: An Intersectional Analysis of Gender**’ in 3rd ISA Forum in Sociology held at University of Vienna from 10th to 14th July, 2016.

Presented a paper entitled ‘**In Quest of Global Beauty: Gender-Technology Interface through Body Beautification**’²⁵⁸ in 3rd ISA Forum in Sociology held at

University of Vienna from 10th to 14th July, 2016.

Papers Presented at National Conferences:

'Beauty Blogs in Consumer Culture: A Redefinition of Femininity' at the 42nd All India Sociological Conference held at Tezpur University, Assam on 27th-30th December, 2016.

NUTAN MARIAN TIGGA : ASSISTANT PROFESSOR

1. A. AREA OF RESEARCH ACTIVITIES

TRIBAL ISSUES, WORK AND INDUSTRY, SPORTS

A. INVITED LECTURES DELIVERED/ SESSIONS CHAIRED: CO-CHAIRING A SESSION AT AN INTERNATIONAL CONFERENCE ON SOCIOLOGY OF RELIGION IN A PLURALISTIC SOCIETY, JADAVPUR UNIVERSITY, APRIL 7-9, 2016.

4. B. ARTICLES PUBLISHED IN JOURNALS

Nutan Marian Tigga *Taking sides with nature*, Man in India, Volume : No. 96 (2016) Issue No. :11 (2016)

Professor Dalia Chakrabarti

2. A. Area of Research Activities: Cultural Studies, Visual Sociology, Urban Studies

3. A. Invited Lectures Delivered/ Sessions Chaired

1. Keynote Speaker in two-day seminar on Fashion, Age and Society : The Role of Media in the Constitution of Identities, 3-4 February, 2017 at The Bhawanipore Education Society College, Kolkata.

2. Two lectures on Religion and Social Stratification in One-year PG Diploma Course in 'Society, Religion and Social Work', at Centre for the Study of Religion and Society, Jadavpur University, on 24.03.17

3. B. Seminar/Conference Attended

1. Attended International Conference on Sociology of Religion in a Pluralistic Society, organized by Centre for the Study of Religion and Society, Jadavpur University, in collaboration with Lancaster University, UK and NSS, Jadavpur University, 7-9 April, 2016

DR. RUBY SAIN : PROFESSOR

2. A. Sociology of Religion

B. Sociology of Health and Illness

C. Research Methods

2. B. Major Research Project

Departmental/Individual

Name of the Project

Funding Agency

1. Principal Investigator of ongoing Project '**COMPARATIVE STUDY OF RELIGIONS**', funded by MHRD through UGC under NME-ICT.

2. Co-investigator of ongoing Project

Global Project on Religion among Young People in collaboration with Prof.

Peter Nynas, Department of Religious Studies, funded by University of Abo Academy, Finland, 2013-2018.

PROJECT COMPLETED

3. Co-investigator : Study title: The Settlement Experiences of Bangladesi Migrants in Kolkata India.

Sponsor: Shastri Indo- Canadian Institute , New Delhi. PI - Prof.Lori Wilkinson, **University of Manitoba, Winnipeg, Canada, 2014-16(30th June)**

4. Co- investigator of UK/BRICS PROJECT with Prof. Andrew Dawson, **Lancaster University, UK. 2013 -2016(31st July)**

5. Co- investigator of “ **Religion and Development**” in collaboration with **Prof.PinitRatanakul, The College of Religious Studies, Mahidol University, Thailand, 2015-2016(31st July)**

3. **A. Invited Lectures Delivered/Session Chaired:**

RELIGIOUS EDUCATION IN SOUTH ASIA, 30-11-2016, University of Stockholm. Sweden 2hrs. Organized by University of Stockholm. Sweden

ACADEMIC STUDY OF RELIGION IN SOUTH ASIA, 2-12-2016, Uppsala University, Sweden. 2hrs. Organized by Uppsala University, Sweden

ECOLOGY, ENVIRONMENT AND RELIGION, 06-02-2017, Dhaka University, Bangladesh.

B. SEMINAR/WORKSHOP/CONFERENCE/SYMPOSIUM ATTENDED

Attended the Workshop on Social Work at Netaji Open University, Salt Lake Campus on 25-5-2016.

Participated a 2 Day International conference on INDIA AND CHINA IN EMERGING ASIAN DOMAIN THE ROAD AHEAD at Vivekananda Hall, JU.

C. SEMINAR/WORKSHOP/CONFERENCE/SYMPOSIUM ORGANIZED

Organized a 3 Day International conference on **Sociology of Religion in a Pluralistic Society** in collaboration with Lancaster University, UK from **7 to 9 April 2016** in the campus of Jadavpur University.

4. **A. BOOKS/MONOGRAPHS/Etc. PUBLISHED**

Ageing Among the Muslims, Rachayita, Kolkata , 2016.

B. ARTICLES PUBLISHED IN /BOOKS

“THE SOCIOLOGY OF HINDU RELIGION” in **WARP AND RAGS OF RELIGION**, Edited by DANIEL ENSTEDT, GORAN LARSON , FERDINANDO SARDELLA, Goteborg University, Sweden, 2016.

5. **Collaborative Programmes**

Global Project on Religion among Young People in collaboration with Prof .Peter Nynas, Department of Religious Studies, funded by University of Abo Academy, Finland, 2013-2018.

Annual Report 2018-19

ARCHITECTURE

Phone : +91-33-2414-6667
Int. : 2457-2624
H.O.D. : Prof. Sanjib Nag
E-mail : hodarchitecture@jadavpuruniversity.in

1. A. Courses offered:

Name of the course	Duration of course	No. of Students enrolled
Bachelor of Architecture	5 Years	40
Master of Architecture (Urban Design)	2 Years	08

1. B. Number of Faculty Members: 12

2. A. Area of Research Activities:

- i. **Prof. Dr. Shubhrajit Das:** Architecture Theory, Criticism and Pedagogy
 - ii. **Prof. Tapas Kumar Bhattacharya:** Biomorphic architecture, Building construction & Building services
 - iii. **Prof. Dr. Jayita Guha Niyogi:** Town and Regional Planning, Transportation Planning Integrated Land use and Traffic System
 - iv. **Prof. Dr. Shivashish Bose:** Theory of Architecture & Urban Design; Architectural Design for Thermal Comfort & Energy Efficiency; Architectural & Urban Conservation; Urban Hydrology, Environmental Planning; Sustainable Development
 - v. **Prof. Dr. Madhumita Roy:** Energy Efficient Architecture
 - vi. **Prof. Dr. Suchandra Bardhan:** Buildings and climate change & sustainability; Historic, regional & urban landscapes
 - vii. **Prof. Dr. Sanjib Nag:** Architecture, Urban Housing, Urban Design and Related Urban Transformations, Urban Developments
 - viii. **Dr. Debashish Das:** Urban Building Microclimate, Urban Climate Mapping, Urban Human-Biometeorology, Outdoor Thermal comfort, Building Science and Smart City planning
 - ix. **Dr. Mainak Ghosh:** Urban Studies, Environmental Perception and behavior, Culture and Community
 - x. **Ms. Sanghamitra Sarkar:** Urban Design and related Developments
 - xi. **Ms. Dechen Donka Bhutia:** Urban conservation, Building construction, etc
 - xii. **Mr. Tanmoy Datta :** Urban Design and allied aspects
- #### 2. B. Major Research Project: (Departmental/Individual –Name of the Project –Funding Agency)
- Prof. Dr. Jayita Guha Niyogi** –Preparation of a Noise Pollution Map for East Kolkata – Prioritizing Landscaping as a Passive Control Measure –DST PURSE Phase II
- Prof. Dr. Suchandra Bardhan** –‘Geoinformatics led Inquiries into Tourism Development in the Indian Sundarban...’ –WB DSTBT
- Dr. Sanjib Nag** –Applying an Urban Design Methodology To Study Urban Development, Due To The Impact Of MRTS –DST PURSE Phase II
- Dr. Debashish Das** –“Human-Biometeorological approach in Urban Planning Studies in warm-humid climates” –DST PURSE Phase-II

3. A. Invited Lectures delivered/(Session Chaired):

Name of the Teacher –Type of Participants –Name of the Seminar/Conference –Place –Duration

Prof. Dr. Suchandra Bardhan –Students of B. Landscape Architecture –Special lecture session organized by the Students Society of Landscape Architecture (SSLA), University Of Moratuwa (UoM), Sri Lanka. –Sumanadasa building, University Of Moratuwa –30th June 2018.

Prof. Dr. Suchandra Bardhan –Students of Architecture and Landscape Architecture –Invited Mentor for the SEARCH Workshop 2018 on ‘Landscape Urbanism’ organized by SEARCH & IIT-Kgp.’s School of

Annual Report 2018-19

Infrastructure Design–IIT Kolkata Centre. –21st-27th December 2018.

Prof. Dr. Sanjib Nag –Interior Designers, Architects & Engineers –Smart Cities & Future Resilience: Green Adaptations & Sustainable Designs –Trinity Towers, Kolkata –22.06.2018

Prof. Dr. Sanjib Nag–Architecture Faculty & Architecture Students –Architecture Design To Urban Design: A Methodological Approach –NIT, Rourkela –19.11.2018

Prof. Dr. Sanjib Nag –Architecture Faculty & Architecture Students –Architecture Thesis : A Methodological Approach –TIU, Kolkata –07.02.2019

Dr Debashish Das –Faculty Members from all Departments –Invited Lecture at UGC sponsored Refresher course, Civil Eng. Dept, JU “Green Buildings to Green cities-Existing scenarios and Future challenges” Civil Eng. Dept, JU –12th Jan, 2018

Dr Debashish Das –Civil Engineers and Civil Contractors –Invited Lecture at World Bank sponsored Training Workshop on TOT for Creating Resource Pool for Training of Contractors on “Rural Green Building Concepts”–School of Water Resources, Jadavpur University –11th Sept, 2018

Dr Debashish Das –Civil Engineers and Civil Contractors –Invited Lecture at World Bank sponsored Training Workshop on TOT for Creating Resource Pool for Training of Contractors on “Greening Rural Development through Green Building Concepts”–School of Water Resources, Jadavpur University –13th Sept, 2018

Dr Debashish Das –Civil Engineers and Civil Contractors –Invited Lecture at World Bank sponsored Training Workshop on TOT for Creating Resource Pool for Training of Contractors on “ Understanding the Dimensions of Green Buildings and Infrastructure Developments in Rural Planning”–School of Water Resources, Jadavpur University –10th Dec, 2018

Dr Debashish Das –Civil Engineers and Civil Contractors –Invited Lecture at World Bank sponsored Training Workshop on TOT for Creating Resource Pool for Training of Contractors on “Application of Green Buildings and Green Infrastructure concepts in Rural Development Works”–School of Water Resources, Jadavpur University –13th Dec, 2018

Dr Debashish Das –Faculty Members from all Departments & Research Scholars –Invited Lecture at UGC sponsored Refresher course, titled “Disaster Management: Water and Environmental Sanitation”. Paper titled “Green Buildings and Green Cities for Urban Resilience and Sustainable Development”–School of Water Resources, Jadavpur University–9th Jan, 2019

Dr. Mainak Ghosh –Interdisciplinary Students and Professionals–Mentored “Landscape Urbanism, SEARCH Workshop”–IIT Kharagpur Kolkata Campus –21 – 27 Dec 2018

Dr. Mainak Ghosh –Students of Architecture and Interior Design – Mentored “Design and Creative Thinking Workshop” Manipal University, Jaipur –6 - 12 Feb 2019

3. B. Seminar/Workshop/Conference/Symposium Attended : (Name of the Teacher –Name of the Paper Presented –Name of the Seminar/Conference –Place–Duration)

Prof. Dr. Jayita Guha Niyogi –Attended workshop on “Green Cities Mission: Opportunities and agenda for action” organized by West Bengal Regional Chapter, ITPI in collaboration with Centre for Science and Environment (CSE) –Hotel Hindusthan International, Kolkata –10th March, 2018

Prof. Dr. Jayita Guha Niyogi (Co-author) –Addressing Informal Public Transport Vehicle Problem in Kolkata –Third National Conference on Recent advances in traffic Engineering, Rate 2018 –SVNIT, Surat, Gujarat 11-12 August 2018

Prof. Dr. Jayita Guha Niyogi(Co-author) –Integration of Transit Modes for Sustainable Urban Mobility with reference to Kolkata –Workshop on “Green Cities Mission: A Dialogue on Urban Sustainability” organized by West Bengal Regional Chapter, ITPI in collaboration with Centre for Science and Environment

Annual Report 2018-19

(CSE) –Bengal Chamber of Commerce –8th December, 2018

Prof. Dr. Suchandra Bardhan –Attended as the only Indian participant from ARCASIA member countries –International workshop on ‘Digital Pedagogy for Architectural Education & Practice’ –Università Guglielmo Marconi, Rome, Italy –One week- 8th to 12th October 2018

Prof. Dr. Suchandra Bardhan –Attended International Seminar on ‘BIM Inside & Out’, organized by Graphisoft, Hungary & REPL, India –Hotel Taj Gateway, Kolkata –26th October 2018

Prof. Dr. Suchandra Bardhan –Attended One Day International Workshop on ‘Health Monitoring & Rehabilitation of Structures’ organised by Centre for Disaster Preparedness & Management, JU–Jadavpur University –7th December, 2018

Prof. Dr. Suchandra Bardhan –Invited delegate– MEA Workshop on the Heritage Zoning of Kolkata for the Creation Museum. of a Management Plan–Indian Museum–20th December 2018

Prof. Dr. Sanjib Nag –Conference Attended –All India People Technology Congress –NITTTR,Kolkata –16 & 17.02.2019

Dr Debashish Das –Aspects of Greening Rural Development in India-An overview of the challenges and its role in sustainable development –2 Days International Seminar on “ Rural Development in India:Contemporary Reflection”–Rabindra Bharati University–26th -27th April,2018

Dr Debashish Das–Conservation in Kumartuli, North Kolkata-Case for Thermal Comfort and Well Being of the Artisans –International Conference on Urban Conservation–ICCR,Kolkata –26th-28th Nov,2018

Dr Debashish Das–Attended–2 Days Training programme on new practices for cement Finished Construction by treated Bamboo, participated–FOSET,Kolkata North Dum Dum Municipality–9th & 10th June,2018

Dr Debashish Das–Attended–International Seminar on ‘BIM Inside & Out’, organized by Graphisoft, Hungary & REPL, India–Hotel Taj Gateway, Kolkata–26th October 2018

Dr Debashish Das–Attended –One day International Workshop on “Health monitoring & Rehabilitation of Structures”–Centre for Disaster Preparedness & Management, Jadavpur University–7th Dec,2018

Dr. Mainak Ghosh–Attended –EdTech 2018 Conference –The Gateway Hotel, Kolkata –22 Nov 2018

Dr. Mainak Ghosh (co-presenter orally presented)–Water and Creative Livelihood: Conservation of Heritage in Deltic Bengal–International Conference on Urban Conservation–ICCR, Kolkata –26 – 28 Nov. 2018

Dr. Mainak Ghosh–Attended–Plastic Wastes to Wealth International Seminar, organized by Indian Plastics Federation–Eco Park Exhibition Ground, Kolkata–2 Dec 2018

Dr. Mainak Ghosh (co-presenter orally presented)–Sustainability in Architecture & Planning: Consumption and Behavior–SPATE, International Seminar on Sustainability in Architecture, Planning, Engineering and Technology , 2019–Amity University, Jaipur–31 Jan – 1 Feb 2019

Dr. Mainak Ghosh (co-presenter orally presented) –Sustainability in Traditional Concepts of Architecture and Planning Planning, Engineering and Technology , 2019–SPATE, International Seminar on Sustainability in Architecture, –Amity University,Jaipur –31 Jan – 1 Feb 2019

Dr. Mainak Ghosh (co-presenter presented)–Traditional Architecture and Rural Tourism (Poster) The World Bamboo Workshop 2019, by World Bamboo Organization, USA.–Manipur–4 – 8 Feb 2019

Sanghamitra Sarkar –Participant–Workshop on “Introduction to Energy Conservation Building Code” – Indian Institute of Engineering, Science and Technology, Shibpur–6th-10th February, 2019.

Sanghamitra Sarkar–Exploring transformation of Commercial Centres and process of Urban Development in a city: Defining important aspects of Research work –12th All India People’s Technology Congress. Kolkata–16th-17th February, 2019

3. C. Seminar/Workshop/Conference/Symposium Organized: (Name of the Teacher–Name of the Paper presented–Name of the Seminar/ Conference/Workshop–Place–Duration)

Prof. Jayita Guha Niyogi & Prof. Suchandra Bardhan–Joint Coordinator –One-week Workshop on ‘Application of Quantitative Techniques in Spatial Planning’ –Dept. of Architecture, JU–21st – 28th December 2018

Prof. Dr. Sanjib Nag–Workshop Organized–“Sustainability Sensitizing”–JU, Kolkata–09 & 10.07.2018

Dr Debashish Das–Convenor–One Day Awareness & Training Programme on Energy Conservation Building Code–Dept. of Architecture, Jadavpur University–April 24th,2018

Dr Debashish Das–Joint Coordinator–Sustainability Sensitizing Workshop–Jadavpur University, Kolkata 9 – 10 Jul 2018

Dr Debashish Das–Convenor –One day National Seminar on Heritage: A nations pride,–Jadavpur University, Kolkata –22nd Nov,2018

Dr Debashish Das–Workshop Convenor –One day Workshop on “Green City Mission: Opportunities and agenda for action”–HHI, Kolkata –8th Dec,2018

Dr Debashish Das–Convenor –One week Workshop on ‘Application of Quantitative Techniques in Spatial Planning’–Dept. of Architecture, JU–21st – 28th December 2018

Dr. Mainak Ghosh–Joint Coordinator–Sustainability Sensitizing Workshop–Jadavpur University, Kolkata – 9 – 10 Jul 2018

Dr. Mainak Ghosh–Organized –Urbanism 2050 by Prof. Anne Feenstra Jadavpur University, Kolkata – 30 Oct 2018

Dr. Mainak Ghosh–Organized–VERV Industry Academic initiative with Aludecor–Jadavpur University, Kolkata– 20 Nov 2018

Dr. Mainak Ghosh–Coordinator –Indplas’ 18 International Event –Eco Park Exhibition Ground, Kolkata. – 30 Nov – 3 Dec 2018

3. D. Orientation Courses/Refresher courses Attended: (Name of the Teacher–Title of the Course –Duration–Place)

Prof. Dr. Suchandra Bardhan –PG Certificate Course on “City and Metropolitan Planning” by M. Urban Planning Dept., SPA, N.D.–15-week- August to December 2018 –SWAYAM-MOOC

4. A. Books/Monographs etc. Published: (Name of the Teacher –Name of the Book/ Monograph etc.–Name of the Publisher)

Prof. Dr. Suchandra Bardhan (Co-author)–Chapter titled ‘Embodied Water of Construction and Its Significance in Sustainable Development: Case Study of A Single Family Residential House in Pune, India’, *Annual Technical Volume of Architectural Engg. Division Board*, 2018, ISBN: 978-81-936149-2-1, pp. 45-49.–The Institution of Engineers (India)

Prof. Dr. Suchandra Bardhan (Co-author)–Chapter titled ‘Interpreting Jeanneret’s Vision for Gandhi Bhawan’ in the book *Gandhi Bhawan: Documenting and Conserving Modern Heritage of India*, 2019, ISBN: 978-93-85360-53-4, pp. 60-79.–Mapin Publishing, India

Dr. Mainak Ghosh (Chapter Co-author)– ‘Material Culture and Sustainability: Traditional versus modern in a Case of Northeast of India’, for *The Encyclopedia of Renewable and Sustainable Materials* (ISBN 9780128035818)–Elsevier

Dr. Mainak Ghosh (Chapter Co-author)– ‘Traditional Crafts as Materials in Placemaking: Application and Sustainability in Aesthetic Transformation of Geometry of Urban Public Spaces’, for *The Encyclopedia of Renewable and Sustainable Materials* (ISBN 9780128035818)–Elsevier

4. B. Articles Published in Journals, Proceedings and Magazines :(Name of the Teacher –Name of the Articles –Name of the Journal –Date of Publication –Volume)

Prof. Dr. Jayita Guha Niyogi(Co-author) –Planning approaches towards sustainable urban mobility –Available at SSRN: <https://ssrn.com/abstract=3334408> or <http://dx.doi.org/10.2139/ssrn.3334408> (Elsevier) –June 15, 2018

Prof. Dr. Suchandra Bardhan (Co-author)–An Assessment of Floristic Diversity in Urban Forestry –*The Indian Forester Journal*, ISSN: 0019-4816 (Print), 2321-094X (Online) –April 2018 –144 (4) : 354-362

Prof. Dr. Suchandra Bardhan (Co-author)–Personalization and its Relation to the Perception of Safety: A Case in Residential Apartments –*Journal of Civil Engineering and Environmental Technology*, Print ISSN (2349-8404) Online ISSN: (2349-879X)–April-June, 2018 –5 (4) : 186-191

Prof. Dr. Suchandra Bardhan (Co-author)–Mitigation of Indirect GHG Emission through Wastewater Treatment in Wetlands, Case study- East Kolkata Wetlands, India–*Proceeding of the 4th Annual International Conference on Urban Planning and Property Development*, Singapore, Print ISSN: 2425-0112, online ISSN: 2425-0201.–October 2018–Vol. 4, pp.72-75

Prof. Dr. Suchandra Bardhan (Co-author)–Studies on flood vulnerability assessment of Kolkata under a changing climate: A Quantitative Inferential Approach–*SPANDREL*, ISSN: 2231-4601–December 2018 – Issue 13, Spring 2017, pp. 03-13.

Prof. Dr. Suchandra Bardhan (Co-author)–Reinstating Nature in a City with the help of Biodiversity Indicators: A Framework for a Resilient Kolkata,–*Urban India*, ISSN no. 0970-9045–July- December 2018 –38 (II): 115-135.

Prof. Dr. Suchandra Bardhan (Co-author)–Socio-Ecological Urban Systems: Planning For Resilience – *Journal of Indian Institute of Architects*, ISSN 0019-4913–January 2019 –84(1): 31-36.

Prof. Dr. Suchandra Bardhan (Co-author)–A Theoretical Perspective of Designing for Safe Urban Public Place: Learnings from the Social and Urban Theorists –*International Journal of Advanced Research in Engineering and Technology*, ISSN print: 0976-6480/ ISSN Online: 0976-6499 –March-April 2019 – 10(2): 381-388.

Prof. Dr. Suchandra Bardhan (First author)–Tree composition mapping and environmental role of small natural areas in dense urban setting: Case study of Jadavpur University campus in India –*The Indian Forester Journal*, ISSN: 0019-4816 (Print), 2321-094X (Online)–March 2019–145 (3) : 227-233

Prof. Dr. Sanjib Nag (Supervisor)–Convention Center Complex, At New Town, West Bengal–*Journal Of Indian Institute Of Architects*–May 2018–Vol. 83, Issue 04, Pages 29 - 38

Prof. Dr. Sanjib Nag (Co-Author)–Water Front Dev. – Reconnecting City With River : Case Study Of Kolkata –*Journal Of Indian Institute Of Architects* –July 2018 –Vol. 83, Issue 06, Pages 33-40

Prof. Dr. Sanjib Nag (Co -Author)–Exploring Transformation Of Commercial Centers & Process of Urban Development In A City : Establishing Relevance Of Research Work –*Journal Of Indian Institute Of Engineers* –September 2018 –Vol. 02, Pages 33 - 38

Prof. Dr. Sanjib Nag (Co-Author)–Mass Rapid Transit System Related Urban Development Of Existing Core Areas Of A City : Establishing Relevance Of Research Work–*Journal Of Research In Infrastructure Designing* –December 2018–Vol. 02, Issue 02, Pages 01 - 05

Prof. Dr. Sanjib Nag (Contributor) –Career Guide : Architecture Sambad Pratidin–December 2018 Pages 01 - 04

Prof. Dr. Sanjib Nag (Co-Author)–Exploring Transformation Of Commercial Centers & Process of Urban Development In A City: Defining Important Aspects Of Research Work –*Journal of FOSET* –February 2019–Vol. XXI, Issue 03, Pages 39 - 40

Dr Debashish Das–Source-Sink Dynamics (SoSiD) As a Tool for Carbon Conscious Landuse Planning –

Annual Report 2018-19

Indian Journal of Landscape Systems and Ecological Studies,–June,2018–Vol. 41, No. 1,

Sanghamitra Sarkar–Waterfront Development- Reconnecting City with River: Case Study of Kolkata –
Journal of the Indian Institute of Architects–July 2018–Volume 83, Issue 6

Sanghamitra Sarkar–Exploring transformation of Commercial Centres and process of Urban Development
in a City: Relevance of Research –*Annual Technical Volume, Institute of Engineers.* –December 2018 –
Volume II

6. Major Achievements:

A. Prof. Dr. Jayita Guha Niyogi

1. Acted as external member of the Doctoral Scrutiny Committee for Pre-Registration and Pre-submission of PhD thesis viva-voce of Research Scholars at Department of Architecture, NIT, Patna.
2. Acted as Paper-setter for a number of examinations for different Architectural Institutes and Institute of Engineers, India.
3. Acted as a subject expert member of the Board of Studies meeting for finalizing the syllabus of B. Plan and M. Plan, at Department of Architecture and Planning, CET, Bhubaneswar.
4. Acted as external member of the Doctoral Scrutiny Committee for PhD thesis of Research Scholar at Dept of Architecture, T & R P, IEST, Shibpur.
5. Acted as a judge in the Preliminary Screening and Final Competition of Inter School Elocution Contest on “Need of Urban Planning to Mitigate Air Pollution” in a National workshop on the same Theme on 13th July, Saturday, 2019 at the Rotary Sadan, Kolkata jointly with the Dept. of Architecture & Regional Planning, IIT, Kharagpur and West Bengal Regional Chapter of the Institute of Town Planners, India.
6. Acted as Joint Coordinator of One-week National Workshop on “Application of Quantitative Techniques in Spatial Planning” organized by Centre for Human Settlement Planning, Department of Architecture, Jadavpur University, 21st to 28th December, 2018.

B. Prof. Dr. Suchandra Bardhan

1. Member of the Advisory Committee for the ‘Restoration of the House of Sister Nivedita’ at Bosepara Lane, Kolkata.
2. India-Sri Lanka Foundation Visiting Academic at Bachelor of Landscape Architecture program at Dept. of Architecture, University of Moratuwa, Sri Lanka, June – July, 2018.
3. Recipient of AICTE Travel Grant for attending workshop on ‘Digital pedagogy for Architectural Education and Practice’ at Università Guglielmo Marconi, Rome, Italy in October 2018.

C. Prof. Dr. Sanjib Nag

1. Prof. Dr. Sanjib Nag is a Member, Doctoral Committee, Dept. of Arch. T&RP, IEST, Shibpur, since 2013.
2. Prof. Dr. Sanjib Nag is a Member, Inspection Committee, Council of Architecture, India, since 2015.
3. Prof. Dr. Sanjib Nag is a Member, Doctoral Committee, School Of Ecology, Infrastructure & Human Settlement Management, IEST, Shibpur, since 2017.
4. Prof. Dr. Sanib Nag is a Member, Selection Committee, Public Service Commission, Govt. of W. Bengal, since 2017.
5. Prof. Dr. Sanjib Nag is a Member, Technical Expert Committee, Department of Fire & Emergency Services, Govt. of W. Bengal, since 2017.
6. Prof. Dr. Sanjib Nag is a Jury, National Student Award Competition, INSDAG, Kolkata, since 2017.
7. Prof. Dr. Sanjib Nag is a Member, Board of Studies, School of Architecture, Techno India University, Salt Lake City, since 2018.
8. Prof. Dr. Sanjib Nag served as an External Examiner, Dept. of Arch. T&RP, IEST, Shibpur, in May & December 2018.

Annual Report 2018-19

9. Prof. Dr. Sanjib Nag served as an External Examiner, School of Arch., Techno India University, Salt Lake City, in June & December 2018.

D. Dr. Debashish Das

1. Convener of the Workshop Sub-Committee of Institute of Town Planners, India, West Bengal Chapter, 2018-19
2. Visiting Faculty for M.Tech in Illumination Technology & Design (Evening) Course in the School of Illumination Science Engg. & Design, 2018-19
3. Superintendent of Examiner, The Indian Institute Of Architects, For AIIA Course, since 2018-19.

E. Dr. Mainak Ghosh

1. Participated on invitation several times as expert on live television program entitled Pradhan Matri Awas Yojana, of Prasar Bharati, Doordarshan (2018 – 19).
2. Has been invited as external examiner at the final Jury review of the 8th Semester Architectural Project at IEST Shibpur on 8 May 2018.
3. Has been invited as examiner for viva-voce examination of subject Architectural Design Studio V, Semester 5, at Amity School of Architecture and Planning, Kolkata on 19 Nov 2018.
4. Has been invited several times as examiner for conducting different examinations at J. D. Birla Institute, Kolkata (2018 – 19).
5. Has been invited as jury and curriculum revision/advice at The Design Village at Noida, an international, interdisciplinary and industry-centric design institute, on 23 – 24 May 2018.
6. UG thesis project based research work for Suchi Priyadarshani, under supervision of Dr. Mainak Ghosh, has received award for zonal round first position in Anveshan (Mar 2019), National student research convention and awards.

F. Mrs. Sanghamitra Sarkar

1. Mrs. Sanghamitra Sarkar acted as Reporting Centre Official for West Bengal Joint Entrance counselling 2018-19.
2. Mrs. Sanghamitra Sarkar has co-ordinated an Invited Lecture by Dr. Anita Sinha on “Ghats on the Ganga in Varanasi: A Sustainable Design Approach” at the Department of Architecture, Jadavpur University in November 2019.
3. Mrs. Sanghamitra Sarkar has prepared a document for the Directorate of Mass Education Extension, Government of West Bengal.
4. Mrs. Sanghamitra Sarkar has prepared a project document for the Haldia Dock Complex, Kolkata Port Trust.

G. Ms. Dechen Donka Bhutia

1. Examination Invigilator for WBJEE 2018-2019
2. RC Official for WBJEE 2018-2019
3. External Examiner for Viva Voce of Building Construction V in Amity University, Kolkata.

H. Mr. Tanmoy Datta

1. I, Mr. Tanmoy Datta acted as Teacher Volunteers for the Convocation on allotted, 24.12.2018 at Jadavpur University.

Annual Report 2018-19

CHEMICAL ENGINEERING

Phone : + 91-33-2414-6378
Int. : 2457-2246
H.O.D. : Prof Kajari Kargupta
Dr. Debashis Roy (w.e.f. 21.07.2018)
E-mail : hodchemical@jadavpuruniversity.in

1. A. Courses Offered:

Name of the Course	Duration of Course	Intake Capacity
B.E. in Chemical Engg.	4 Years	116
M.E. in Chemical Engg.	2 Years	19
M.E. in Bioprocess Engg.	2 Years	10

1. B. Number of Faculty Members:

Sanctioned post – 19
Currently – 17

2. B. Major Research Projects:

Departmental/Individual

Project Title: “Development of efficient biomass conversion routes for biofuel production and utilization
Funding Agency: DST sponsored INNO-INDIGO Project CONVER-B (in collaboration with University of Eastern Finland and Helmholtz Centre for Environmental Research (UFZ) , Germany). (2018 – 21)”

Principal Investigator: **Prof. R Chowdhury**

Project Title: “Development of novel electrofloatation/ electrocoagulation enhanced membrane module for oily wastewater treatment”

Funding Agency: DST – TSDP (2016 -18)

Principal Investigator: **Prof. C. Bhattacharjee**

Project Title: “Centre for Technological Excellence in Water Purification (CTEWP)”

Funding agency: DST sponsored Water Innovation Centre (WIC) project (2019-24)

Principal Investigator: **Prof. C. Bhattacharjee**

Project Title: “Process Intensification in concentration of Fruit juices”

Funding Agency: University Grants Commission (2015 - 18)

Principal Investigator: **Prof A. Bhowal**

Project Title: Utilizing natural resources, Carbondioxide and waste heat towards sustainable development (2019-2020)

Funding Agency: RUSA 2.0 (Department Project)

Investigators: **Prof. R Chowdhury, Prof A Bhowal (Coordinator), Prof K Kargupta, Prof P Das**

Project Title: “Solar Energy driven Green Hydrogen Generation from Water using Reduced Graphene Oxide based Photo-catalyst and Co-catalyst”. (2018-2021)

Funding Agency: DST-SERB

Principal Investigator: **Prof. K. Kargupta**

Project Title: “Development of high performance low cost integrated hydrogen generation-fuel cell system for remote application”. (2018-2019)

Funding Agency : RUSA 2.0 Faculty Project

Principal Investigator: **Prof. K. Kargupta** 246

Annual Report 2018-19

Project Title: “Solar Energy driven Green Hydrogen Generation from Water using Reduced Graphene Oxide based Photo-catalyst and Co-catalyst”. (2018-2021)

Funding Agency: DST-SERB

Principal Investigator: **Prof. K. Kargupta**

Project Title: “EcoLodge - Efficient production of Butyl-Butyrate from Lignocellulose derived Sugars

Funding Agency: DST (India)-RCN (Norway), (2015-2018)”

Principal Investigator: **Prof. U Sarkar**

Project Title: “Biorefining *Crotalaria juncea* (Sunn-Hemp): Prospects of utilizing waste glycerol for the production of Succinic Acid”.

Funding Agency: UGC (2015-18)

Principal Investigator: **Prof. U Sarkar**

Project Title: “ISRO-AT-CTM: Atmospheric Trace gases-Chemistry, Transport and Modelling”

Funding Agency: ISRO-GBP/-ATCTM, (2009-2019)

Principal Investigator: **Prof. U Sarkar**

Project Title: “Intensification and Optimization of Conversion of Bio-Glycerol into Value-added Products using Electromagnetically Irradiated Reactor through Novel Protocols”

Funding Agency: **UGC (2015-18),**

Principal Investigator: **Prof. R. Chakraborty**

Project Title: “Sustainable production of platform chemicals and fuel additives from lignocellulosic agro-industry wastes”

Funding Agency: Department of Science & Technology and Biotechnology; Government of West Bengal (2019-2022)

Principal Investigator: **Prof. R. Chakraborty**

Project Title: “Development of Novel Multi-functional Hybrid Materials for Applications in Sustainable Catalytic Conversions and Energy Storage Devices”

Funding Agency: RUSA 2.0; “Departmental Support Towards Upgradation in Research” [Advanced Materials Research] (2019-2020)

Principal Investigator: **Prof. R. Chakraborty**

Project Title: “Sustainable Production of Drop-in Bio-Fuels through Energy-efficient Conversion of Agro-wastes”

Funding Agency: RUSA 2.0; Major Research Support; (2019-2020)

Principal Investigator: **Prof. R. Chakraborty**

Project Title: “Synthesis of Graphene oxide coated natural waste materials and its application for simultaneous treatment of wastewater containing fluoride and chromium: Reactor performance in batch, fluidized bed and membrane reactor”,

Funding Agency: SERB DST sponsored (2019-2022)

Principal Investigator: **Prof P Das**

Project Title: “Green synthesis of iron nanoparticles from manglicolous fungi of Indian Sunderban and their application in sequestration of heavy metals from contaminated water”

Funding Agency: DBT sponsored project (in collaboration with University of Calcutta and National Institute of Technology – Rourkella). (2016 -19)

Principal Investigator: **Prof. P Das**

Annual Report 2018-19

Project Title: “Removal of pharmaceutical derivatives present in waste water by advanced oxidation integrating with microstructure and rotating packed bed of grapheme (G)/Graphene oxide (GO)/GO-metal nanocomposites”

Funding Agency: DST (2017-2020i)

Principal Investigator: **Prof. P Das**

Project Title: “Role of carbonaceous materials and cellulose nano-fibres polymeric composite for treatment of multiple pollutants present in wastewater”

Funding Agency: Dalmia Holdings group limited (2018 -2021)

Principal Investigator: **Prof. C Bhattacharjee, Prof A Bhowal, Prof P Das**

Project Title: “Sustainable development of value added products from Food waste Materials and its Application”

Funding Agency: RUSA II Faculty Project

Principal Investigator: **Prof. P Das**

Project Title: “Zeolite-based Low-cost Hybrid Membrane Photo-Bioreactor System for Treating and Recycling of High Strength Industrial Wastewater”

Funding Agency: IMPRINT - II (2018-2021)

Project Investigator: **Prof P Das (CO-PI)**

Project Title: “Treatment of contaminated drinking water using hybrid low-cost process Funding Agency: DBT sponsored INNO-INDIGO Project HyWATER (in collaboration with University of Porto, Portugal and Technical University of Munich (TUM) , Germany)”. (2015 – 18)

Principal Investigator: **Dr. MehabubRahaman**

Project Title: “Metal Nanoparticle Tailored Activated Carbon Prepared From Waste Towards Heavy Metal Removal from Waste Solution”

Funding Agency : RUSA 2.0, Major Research Support, Faculty Project (2019-20)

Principal Investigator: **Dr. S. Bose**

Project Title: “Graphene-based polymer nanocomposite for multifunctional application especially as supercapacitor electrode”

Funding Agency :UGC (2014-19)

Principal Investigator: **Dr. S. Bose**

Project Title: “Environmentally benign amine functionalized solid sorbent for fast and reversible CO₂ capture from air: Kinetics of temperature-vacuum swing adsorption/desorption system”. (2017-2020)

Funding Agency: DST-SERB

Investigator: **Dr. S. Saha**

Project Title: “A novel organic nanoparticle based aerogel production from lignocellulosic material with super adsorption capabilities. (2016-2019)”

Funding Agency: DST –SERB (Young Scientist)

Investigators: **Dr. S. Saha**

3. A. Invited Lectures Delivered/Sessions Chaired:

(Name of the Teacher, Type of Participants, Name of the Seminar / Conference etc. place, Duration)

2019

1. **C. Bhattacharjee**, Invited lecture on “Advanced Technologies for Waste Water Treatment Leading to Sustainable Developments: A Case Study on Dairy Waste” In 106th Science Congress, Lovely Professional University, Phagwara, Punjab, India, 2019.

Annual Report 2018-19

2. **C. Bhattacharjee**, Invited lecture on “Energy Conservation and management” organized by Shilpa Bichitra, an esteemed Industry & Commerce Oriented English Journal, Jadavpur University, Kolkata, 2019.
3. **C. Bhattacharjee**, Invited lecture on “Concept & Technology of Selfless Service for Nation Building” In Two Day Workshop organized by Vivekananda Institute of Environment and Management, Kolkata, Kolkata, 2019.
4. **C. Bhattacharjee**, Invited lecture on “Membrane Technology and its inter-disciplinary Applications” during Inter-disciplinary refresher course on “Emerging Trends in Mechanical Engineering with Inter-Disciplinary Application” in the Department of Mechanical Engineering, Jadavpur University, January 2019.
5. **C. Bhattacharjee**, Keynote Speaker in 3rd International Conference on Biotechnology & Biological Sciences: BIOSPECTRUM 2019, In Department of Biotechnology, University of Engineering & Management, Kolkata. 2019.
6. **C. Bhattacharjee**, Keynote speaker for Workshop entitled “Membranes for Water management and Waste to Resources with Special Focus on NextGen Membrane Technology”, at CSIR-Central Glass and Ceramic Research Institute, Kolkata, 2019.
7. **C. Bhattacharjee**, Keynote speaker in “National Conference on Environmental Sustainability, Water Resource and Management” at Narula Institute of Technology, 2019.

2018

1. **C. Bhattacharjee**, Invited lecture on “Glocalization -The Game-Changer of Modern Business as the Chief Guest to Comercio Conclave 2018” – Inter College Business Convention hosted by J.D. Birla Institute, 2018.
 2. **C. Bhattacharjee**, Invited lecture on “Industry-Academia Interaction to meet the challenges in Process Industries for Sustainable Development”; at NIT Agartala. Chief Guest in the 2 Days TEQIP III sponsored Workshop Programme on “Industry-Academia Interaction to meet the challenges in Process Industries for Sustainable Development” at NIT Agartala, 2018.
 3. **C. Bhattacharjee**, Invited lecture on “Recent Trends in Chemical Engineering and Biotechnology in Mitigation of Global Warming” at Institute of Engineers India, 2018.
 4. **C. Bhattacharjee**, Invited lecture on “Beat Plastic Pollution” during World Environment Day 2018 celebration Seminar on Waste Management in Kolkata - Way Forward to be organized by the International Society of Waste Management, Air and Water (ISWMAW) in collaboration with CQMS, Jadavpur University and ITC Ltd, Jadavpur University, Kolkata. 2018
 5. **C. Bhattacharjee**, Invited lecture on “National Conference on Engineering & Technology for Rebuilding India” organized by Vivekananda Institute of Environment & Management (VIEM), Kolkata jointly with Central Glass & Ceramic Research Institute, Kolkata, Central Glass and Ceramic Research Institute, Jadavpur, Kolkata, 2018.
- 3. B. Seminar/Workshop/Conference/Symposium Attended: (Name of the Teacher, Name of the Paper Presented, Name of the Seminar, place, Duration)**

2019

8. Vijoyeta Chakraborty, Papita Das, Pankaj Roy, , Removal of Strontium (II) ion from aqueous solution using Graphene Oxide, International Conference on “Emerging Technologies for Sustainable Development” organised by Government College of Engineering and Leather Technology, Kolkata held at Eastern Zonal Cultural Centre & Government College of Engineering and Leather Technology, Kolkata, India (Poster): 5-6th march, 2019.
9. Sandipan Bhattacharya, Papita Das, Avijit Bhowal, Removal of Cetrizine With Graphene Oxide as an Adsorbent, International Conference On “Emerging Trends For Sustainable Development, 2019”, Organized By : Government College Of Engineering And Leather Technology. Date : 5th - 6th March, 2019 (Oral)

Annual Report 2018-19

10. Preetha Ganguly, Shubhalakshmi Sengupta, Papita Das, Avijit Bhowal, Comparative Study Of The Pretreatments And Their Effect On Groundnut Shell Waste For Bioethanol Production , International Conference on Emerging Technologies for Sustainable Development (ICETSD 19) on March 5-6, 2019 at GCELT campus, Kolkata.WB,India. , Proceedings:- 978-81-8211-146-2 Page- 78-81
11. Lopamudra Das, Niladri Shikhar Saha, Papita Das, Avijit Bhowal, Chiranjib Bhattacharya paper name: Batch adsorption studies on removal of Crystal Violet dye from aqueous solutions using raw sugarcane bagasses, International Conference on Emerging Technologies for Sustainable Development (ICETSD 19) on March 5-6, 2019 at GCELT campus, Kolkata.WB,India. , Proceedings:- 978-81-8211-146-2 , Page- 94-97
12. Banerjee, P., Mukhopadhyay, A. and Das, P., 2019. Treatment of azo dye by combined biodegradation and adsorption – an ecofriendly approach. Abstract book of international conference on “Environment, Development and Livelihood”, 22nd -23rd February 2019, Kolkata. Pp: 42. Organized by the Department of Geography and IQAC, South Calcutta Girls’ College, Kolkata, in collaboration with Centre For Environment And Economic Development (CEED), New Delhi.
13. Banerjee, P., Mukhopadhyay, A. and Das, P., 2019. A combined biodegradation-biosorption approach for detoxification of azo dye bearing effluents. International symposium on Environmental Chemistry, 15th February 2019, Kolkata. Organized by the Department of Environmental Science, University of Calcutta, Kolkata, in collaboration with Indian Chemical Society, Kolkata.
14. Vijoyeta Chakraborty, Papita Das, Pankaj Roy, Removal of Cadmium by thermally modified sawdust, 12th All India Peoples’ technology congress organised by forum of scientists,engineers & technologists (FOSET) held at : National Institute of Technical Teachers’ Training and Research, Kolkata on 16th and 17th February, 2019
15. Sandipan Bhattacharya, Papita Das, Avijit Bhowal, Removal of chlorothiazide from it’s aqueous solution using graphene oxide as an adsorbent, 12th All India Peoples’ technology congress organised by forum of scientists,engineers & technologists (FOSET) held at : National Institute of Technical Teachers’ Training and Research, Kolkata on 16th and 17th February, 2019
16. Lopamudra Das, Niladri Shikhar Saha, Papita Das, Avijit Bhowal, Chiranjib Bhattacharya, Fixed bed column study for the removal of aqueous malachite green dye solution using raw sugarcane bagasse, 12th All India Peoples’ technology congress organised by forum of scientists,engineers & technologists (FOSET) held at : National Institute of Technical Teachers’ Training and Research, Kolkata on 16th and 17th February,2019.
17. Niladri Shikhar Saha, Lopamudra Das, Papita Das, Avijit Bhowal, Chiranjib Bhattacharya; Extraction and application of cellulose from Rice Husk in decolonization of Malachite Green from dye contaminated waste water. 12th All India Peoples’ technology congress organised by forum of scientists,engineers & technologists (FOSET). held at : National Institute of Technical Teachers’ Training and Research, Kolkata on 16th and 17th February,2019.
18. S. R. Barman A. Mukhopadhyay and P. Das, 2019. Synthesis and characterization of activated carbon prepared from almond nut shells. Abstract Book of National Seminar on”Emerging Environmental Issues: Retrospect and Prospect” Organized by Vijaygarh Jyotish Ray College. 19th February 2019.Kolkata. [ORAL]
19. S. R. Barman A. Mukhopadhyay and P. Das, 2019. Green synthesis of Copper Nanoparticle-Activated carbon composite for the adsorption of Polyaromatic Hydrocarbons from aqueous phases. Abstract book of National Conference on Recent Developments in Nanoscience & Nanotechnology, Organized by school of material science and nanotechnology, Jadavpur University. 29-31st January 2019. T01_06 [POSTER]
20. S. R. Barman A. Mukhopadhyay and P. Das, 2019. Recycling of urban wood waste to wealth. Abstract book of one day seminar on “Contemporary Issues in Urban Economics with special reference to India”, Organized by Centre for Urban Economic Studies (CUES), University of Calcutta. 1stFebruary 2019.Pp 3 [ORAL]

Annual Report 2018-19

21. Parama Ghoshal and Silvana S. S. Cardoso. Mechanism of reactive convective-dissolution in the geological storage of carbon dioxide, presented at the Eighth International Symposium on Bifurcations and Instabilities in Fluid Dynamics (BIFD) 2019 held at the University of Limerick, Ireland, 16-19 July 2019.
22. Parama Ghoshal and Silvana S. S. Cardoso. Reactive convective-dissolution in a Hele-Shaw cell, presented at the *14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics* held at the Powerscourt Hotel Resort & Spa, Wicklow, Ireland, 21-25 July 2019.
23. Sibashish Baksi, Ujjaini Sarkar, Sudeshna Saha. Enzyme based hydrolysis of a fibrous and a woody biomass: A novel protocol. The 4th International Conference on “Alternative Fuels, Energy and Environment (ICAFEE): Future and Challenges”. held at Feng Chia University, Taichung, Taiwan on 18th – 21st, October 2019.
24. Pabitra Kumar Baidya , Niwesh Ojha , Ujjaini Sarkar. Selective Hydrogenation of Succinic Acid to 1,4-Butanediol using Palladium-Alumina Bimetallic Catalyst: Effects of calcination temperature, pressure and reaction time. The 4th International Conference on Alternative Fuels, Energy and Environment (ICAFEE): Future and Challenges. held at Feng Chia University, Taichung, Taiwan on 18th – 21st, October 2019.
25. Pabitra Kumar Baidya , Niwesh Ojha , Ujjaini Sarkar. Selective Hydrogenation of Bio-refined Succinic Acid into 1,4-Butanediol using various Bimetallic Catalysts: Effects of calcination temperature, pressure and reaction time. 69th Canadian Chemical Engineering Conference. Held at Halifax, NS on October 20-23, 2019.
26. Sibashish Baksi, Ujjaini Sarkar, Sudeshna Saha. Implication of fractal kinetics and diffusion limited reaction on biomass hydrolysis. 69th Canadian Chemical Engineering Conference. Held at Halifax, NS on October 20-23, 2019.
27. S. Das, K. Nath, R. Chowdhury, Comparative studies on biomass productivity and lipid content of a novel blue-green algae during autotrophic and heterotrophic growth, “11th International Exergy, Energy and Environment Symposium (IEEES’ 11), 2019”.
28. S. Pati, S. De and R. Chowdhury, Process Modelling of Gasification and Co-Gasification of Individual and Mixed Indian Lignocellulosic Waste- Optimization of Energy efficiency, 11th International Exergy, Energy and Environment Symposium (IEEES’ 11), 2019.
29. S.Ghosh, A. Mishra and R. Chowdhury, Correlation of sugar release and increase of crystallinity index (CrI) during mild acid-catalyzed hydrothermal pretreatment of Indian rice straw, 11th International Exergy, Energy and Environment Symposium (IEEES’ 11), 2019.
30. R. Das and C. Bhattacharjee, Photo-membrane Reactor: A Sustainable Approach for Environmental Pollution Control, 106th Indian Science Congress, Lovely Professional University, Jalandhar, India, 2019.
31. R. Das and C. Bhattacharjee, Detoxification of Nonconventional Oil Seed Protein and Synthesis of Protein Based Hydrogel, In International Conference on Emerging Trends for Sustainable Development (ICETSD ’19), Government College of Engineering and Leather Technology, Kolkata, India. 978-81-8211-146-2 ©2019 GCELT, 2019.
32. R. Das, C. Bhattacharjee, A Sustainable Approach for Environmental Pollution Control with Photomembrane Reactor, In National Symposium centering on World Environment Day titled “Applications of Engineering & Technology towards Sustainable Growth”, Jadavpur University, 2019.
33. R. Das, C. Bhattacharjee, Application of Nanotechnology for Pharma Industry Effluent Treatment - A Sustainable Process Development, In National Symposium on Sustainable Waste Management (NSSWM-2019), Institute of Engineering and Management, Kolkata, 2019.
34. S. Bhattacharya, D. Sen, C. Bhattacharjee, “Growth inhibition characteristics of Escherichia coli in contrast to Bacillus subtilis by natural antibiotic ‘Allicin’ extracted from Allium sativum bulbs”, “106th Indian Science Congress”, Jalandhar, Punjab, 2019.

Annual Report 2018-19

35. S. Bhattacharya, P. Chakraborty, D. Sen, C. Bhattacharjee, "Polyethylene Glycol Based Drug Delivery Applications", "International conference on Emerging Trends for Sustainable Development, 2019 (ICETSD), organized by Government College of Engineering and Leather Technology (Post-Graduate), Kolkata, 2019.
36. S. Bhattacharya, P. Chakraborty, D. Sen, C. Bhattacharjee, "Inhibition kinetics analysis of Bacillus subtilis and Escherichia coli using natural thiosulfinate drug", "6th Convention: Society for Ethnopharmacology (SFE - INDIA) and National seminar on Translational Research of Traditionally used Indian medicinal plants with special reference to (Tinospora cordifolia)", Organized by School of Natural Product Studies Jadavpur University, Kolkata, 2019.
37. A. Mondal, S. Banerjee and C. Bhattacharjee, "Increase in hydrophilicity of Polysulfone membrane using Polyvinylpyrrolidone (PVP)", International conference on emerging technologies for sustainable development (ICETSD '19), pp 198-201, ISBN: 978-81-8211-146-2, 2019.
38. A. Mazumder, D. Sen, C. Bhattacharjee, "Bioremediation of oil-water emulsion using immobilized microbial beads". 106th Indian Science Congress, Focal Theme "Future India: Science & Technology" 2019.
39. A. Mazumder, Z. Chowdhury, D. Sen, C. Bhattacharjee, "Study on formation of novel o/w microemulsion solvent extractant system for Polycyclic Aromatic Hydrocarbons from aqueous waste stream". International Conference on Emerging Technologies for Sustainable Development – ICETSD 19, Kolkata 2019.
40. S. Saha, D. Roy, C. Bhattacharjee, "Graphene and its Composites: Promising and Sustainable Nanomaterial for Bioenergy Production" Proceedings in National Symposium on "Applications of Engineering & Technology towards Sustainable Growth" TEQIP III Twinning Program of Faculty of Engineering & Technology, Jadavpur University, P-30, 2019.

2018

1. P. Ghosh, K. Kargupta, Portable, smart, highly proton conductive gel paste electrolyte for fuel cell application, 7th International Hydrogen and Fuel Cell Conference (IHFC)-2018, Jodhpur, Rajasthan, India, December 9–11, 2018 [Poster]
2. S. Mandal, S. Ghoshdastidar, P. Ghosh, D. Banerjee, K. Kargupta, International Conference on Innovation in Material Science and Technology (IMST), Amity University, Kolkata 2018, 14-16 th December 2018 [Poster].
3. S. Das, S. Sengupta, P. Das and S. Datta. Recycling Industrial Wastes for Production of Bioethanol. Volume II 8th IconSWM proceedings, ANU, Andhra Pradesh, India, Nov 22-24, 2018, Pg. 1139-1143
4. Swagata Das, Shubhalakshmi Sengupta, Papita Das and Siddhartha Datta. Biodegradation Of Cellulose Using Aspergillus Sp. For Extraction of Fermentable Sugars. Proceedings of Peer-Reviewed Extended Abstracts, International Conference on Advanced Technologies for Industrial Pollution Control (ATIPC-2018), IEST, Shibpur, India, Dec 17-19, 2018, Pg 111-112.
5. Swagata Das, Shubhalakshmi Sengupta and Papita Das. "Effect of Temperature variance on production of bioethanol using Saccharomyces cerevisiae". Abstract booklet of 71st Annual Session of Indian Chemical Engineering Congress, CHEMCON-2018, Paper code (CH O529), Dr. B.R. Ambedkar NIT, Jalandhar, Punjab, India, Dec 27-30, 2018.
6. Antara Ganguli, Papita Das, Siddhartha Datta, "Removal Of Phenol From Its Aqueous Solution By Bacteria Immobilized Graphene Oxide Nanocomposite", International Conference on Advanced Technologies for Industrial Pollution Control (ATIPC-2018) December 17-19, 2018 , page 60 – 61
7. Dolanchapa Sikdar, Papita Das, "Removal of fluoride from Synthetic Wastewater using Isolated Fungi from Indian Sundarban Mangrove Forest" International Conference on Advanced Technologies for Industrial Pollution Control (ATIPC -2018) organized by Civil Engineering Department, Indian Institute of Engineering Science and Technology, Shibpur , Howrah -711103, West Bengal, India, during December 17- 19 , 2018, page no. (117-118).

Annual Report 2018-19

8. Preetha Ganguly, Shubhalakshmi Sengupta, Papita Das, Avijit Bhowal, "Synthesis of cellulose and lignin and their application in bioethanol production and waste water treatment". International Conference on Bio-Innovation for Environmental and Health Sustainable Development by CSIR-Indian Institute Of Toxicology Research , Lucknow , during November 27-28, 2018, Page- 34.
 9. Rwidhi Sarkhel, Shubhalakshmi Sengupta, Papita Das, Avijit Bhowal, "Biodegradation Of Plastic Waste using Marine Micro-organisms", 8th International Conference on Sustainable Waste Management organised by the International Society of Waste Management Air and Water (ISWMAW), held in Acharya Nagarjuna University, Guntur, Vijayawada, Andhra Pradesh during November 22-24, 2018, page 534-538.
 10. Rwidhi Sarkhel, Shubhalakshmi Sengupta, Papita Das, Avijit Bhowal, "Biodegradation of Polymers by bacteria isolated from marine environment", International Conference on bio-innovation for environmental and Health Sustainable Developments(BEHSD-2018) organised by Biotech Research Society BRSI and CSIR, IITR, Lucknow during November 27-28, 2018, page 40-41
 11. Preetha Ganguly, Shubhalakshmi Sengupta, Papita Das, Avijit Bhowal, "Synthesis of cellulose from peanut shell waste and its use in bioethanol production", 8th International Conference on Sustainable Waste Management by Acharya Nagarjuna University, Andhra Pradesh , during November 22-24, 2018 , Page- 804-811.
 12. B. Samanta, Dr. R. Das, C. Bhattacharjee, "Safe Drinking water- disinfection process and technology" In International Conference on water resource Management, 11-12 January 2018, Poster 14, CSIR-CGCRI, Jadavpur, Kolkata.
 13. S. Das, A. Majumder, R. Das, C. Bhattacharjee, "Bioremediation of oily effluents using isolated bacterial strain from waste stream", in International Conference on water resource Management, 11-12 January 2018, Poster 13, CSIR-CGCRI, Jadavpur, Kolkata.
 14. S. Bhattacharya, D. Sen, C. Bhattacharjee, "Utility of Polyethylene Glycol in Pharmaceutical Industry for Modern Drug Delivery Applications". "National Conference on Engineering & Technology for Rebuilding India", Organized by Vivekananda Institute of Environment & Management & CSIR-Central Glass & Ceramic Research Institute. June 2018, Kolkata.
 15. S. Bhattacharya, D. Sen, C. Bhattacharjee, "Antimicrobial Properties of Allium sativum–Effect Analysis on Gram Negative bacteria". "5th Convention: Society for Ethnopharmacology (SFE - INDIA) and National Symposium on Promotion and development of Indian Medicinal Plant – Special reference with Brahmi (Bacopa monnieri)", Organized by School of Natural Product Studies Jadavpur University, September 07-08, 2018, Kolkata.
 16. S. Bhattacharya, P. Chakraborty, D. Sen, C. Bhattacharjee, "Promoting Nutraceutical Phytochemicals for Modern Antimicrobial Chemotherapeutics - An Approach Towards New Drug Formulation". "National Seminar on Pharmacy & Healthcare: Traditional Knowledge to Modern Techniques". Organized by Advanced Pharmacognosy Research Laboratory, Department of Pharmaceutical Technology, Jadavpur University, September, 2018, Kolkata.
 17. A. Mondal, S. Banerjee, C. Bhattacharjee, "Synthesis and Characterization of Ultrafiltration Polysulfone Membrane Using Polyvinylpyrrolidone(PVP)" at "National Conference on Engineering & Technology for Rebuilding India" organized by VIEM and CSIR-CGCRI, Kolkata on 5-6th June, 2018.
 18. A. Mazumder, D. Sen, S. Das, C. Bhattacharjee, "Treatment of emulsified oily wastewater using bioremediation" "National Conference on Engineering & Technology for Rebuilding India", Organized by Vivekananda Institute of Environment Management & CSIR-Central Glass & Ceramic Research Institute. June 2018, Kolkata.
- 3. D. Orientation Courses/ Refresher Courses Attended:(Name of the Teachers, Title of the Course, Duration, Place)**
Dr. Saswata Bose, UGC sponsored 68th Orientation Programme, 5th Feb to 6th March, 2018, UGC-HRDC, Jadavpur University Saltlake Campus.

Annual Report 2018-19

Dr. Saswata Bose, Emerging trends in Mechanical Engineering with Inter-Disciplinary Application, UGC sponsored winter school, 2019 under refresher course, -22nd January, 2019, Mechanical Engineering Department, Jadavpur University.

4. A. Books/Monographs etc. Published:(Name of the Teacher, Name of the Book, Name of the Publisher)

2019

1. Chowdhury, Ranjana. "Biofuels from Indian Lignocellulosic Wastes Through Pyrolysis: A Review with Some Case Studies." In *Waste Management and Resource Efficiency*, pp. 131-146. Springer, Singapore, 2019.
2. S. Das, S. Ghosh, R. Chowdhury, "Intensification of Bio-oil Yield from Waste Banana Pseudo-Stems - Experimental Studies on Catalytic Pyrolysis". In the book *Waste Management and Resource Efficiency* (2019) DOI:10.1007/978-981-10-7290-1_63. Springer, Singapore.
3. B. Debnath, R. Chowdhury, S. K. Ghosh, "An analysis of e-waste recycling technologies from the chemical engineering perspective". In the book *Waste Management and Resource Efficiency* (2019) 879-888. Springer, Singapore.
4. Chakraborty R., Mukhopadhyay P. "Use of Green Fuel Blends: A Pollution Reduction Approach; Reference Module in Materials Science and Materials Engineering"; (ELSEVIER)[<https://doi.org/10.1016/B978-0-12-803581-8.11019-7>]
5. Chakraborty R., R. Samanta. "Renewable Jet Fuel(RJF): Mitigation of Aviation-Related GHG Emissions. Reference Module in Materials Science and Materials Engineering", (ELSEVIER) [<https://doi.org/10.1016/B978-0-12-803581-8.11049-5>]
6. Banerjee P, Das P, Mukhopadhyay A, Nanomaterials for CO₂ Sequestration, Encyclopedia of Renewable and Sustainable Materials, Elsevier Publications (Accepted)
7. Sengupta S, Das P, Datta S, Manufacturing of Biodegradable Poly Lactic Acid (PLA): Green Alternatives to Petroleum Derived Plastics, Encyclopedia of Renewable and Sustainable Materials, Elsevier Publications (Accepted)
8. Sengupta S, Das P, Datta S, Sustainable Materials, Elsevier Publications (Accepted) Fermentative Production of Optically Pure Lactic Acid from Renewable Materials. Encyclopedia of Renewable and Sustainable Materials, Elsevier Publications (Accepted)
9. Saswata Bose, Arit Das and Anirban Ghosh., "Enhanced Thermal and Mechanical Performance of Functionalized Graphene Epoxy Nanocomposites: Effect of Processing Conditions, Different Grades & Loading of Graphene" in *Advances in Materials, Mechanical and Industrial Engineering*, Sahoo, Prasanta, Davim, J. Paulo (Eds.), ISBN 978-3-319-96968-8.
10. A. Ghosh, D. Chakraborty, Mehabub Rahaman and S. Bose "Efficiency of Mango Peel Derived Activated Carbon Prepared via Different Routes as Adsorbent for Rhodamine B" in *Waste Water Recycling and Management*, Ghosh, Sadhan Kumar (Ed.), ISBN 978-981-13-2619-6.
11. R. Das, C. Bhattacharjee, Detoxification of Nonconventional Oil Seed Protein and Synthesis of Protein Based Hydrogel Pp- E6-E9, ISBN: 978-81-8211-146-2 ©2019 GCELT.
12. A. Mazumder, D. Sen, C. Bhattacharjee, Mass Transport through Composite Asymmetric Membranes, In "Diffusion Foundations", Vol. 23, pp. 151-172, 2019, Ed: Dr. Inamuddin, Anish Khan and Abdullah Mohamed Asiri, Trans Tech Publications Ltd.
13. A. Mondal, C. Bhattacharjee, "Membrane Transport for Gas Separation, in Diffusion Foundations", Vol. 23, pp. 138-150, 2019, Ed: Dr. Inamuddin, Anish Khan and Abdullah Mohamed Asiri, Trans Tech Publications Ltd.

Annual Report 2018-19

14. A. Mazumder, S. Bhattacharya, C. Bhattacharjee, Role of nano-photocatalysis in heavy metal detoxification, (Chapter 1), in “Nanophotocatalysis and Environmental Applications. Environmental Chemistry for a Sustainable World”, 30, 2020, Ed: Inamuddin, Asiri A., Lichtfouse E., Springer, ISBN: 978-3-030-12618-6.
15. S. Sarkar, S. Sarkar, C. Bhattacharjee, Green Synthesis of Novel Photocatalysts, (Chapter 9), in “Nanophotocatalysis and Environmental Applications. Environmental Chemistry for a Sustainable World”, 29, 2019, Ed: Inamuddin, Asiri A., Lichtfouse E., Springer, ISBN: 978-3-030-10608-9.
16. S. Sarkar, S Sarkar, C. Bhattacharjee, Novelty in designing of photocatalysts for water splitting and CO₂ reduction, (Chapter 3), in “Nanophotocatalysis and Environmental Applications. Environmental Chemistry for a Sustainable World”, 31, 2019, Ed: Inamuddin, Asiri A., Lichtfouse E., Springer, ISBN: 978-3-030-04948-5.

2018

1. R. Chowdhury, S.Das, S. Ghosh, CO₂ Capture and Utilization (CCU) in Coal-Fired Power Plants: Prospect of In Situ Algal Cultivation. In the book *Sustainable Energy Technology and Policies* (2018) 231-254. Springer, Singapore.
2. R.Chowdhury, S.Ghosh, B.Debnath, D.Manna, Indian Agro-wastes for 2G Biorefineries: Strategic Decision on Conversion Processes. In the book *Sustainable Energy Technology and Policies* (2018) 353-373. Springer, Singapore.
3. Banerjee, P., Mukhopadhyay, A. and Das, P, 2018. Nanomaterial for CO₂ Sequestration. In: Encyclopedia of Renewable and Sustainable Materials. Eds: M.A. Maleque, E. Bayraktar, I. Choudhury, D. Grau, J. Haider, S. Hashmi, M. Hashmi, G. Majumdar, H. Metselaar, Z. Qamar, M. Roy, Elsevier [DOI: 10.1016/B978-0-12-813195-4.11031-4] (*In press*).
4. Uttariya Roy, Suvendu Manna, Shubhalakshmi Sengupta, Papita Das, Siddhartha Datta, Aniruddha Mukhopadhyay, Avijit Bhowal, 2018. Dye removal using microbial biosorbents, Green Adsorbents for Pollutant Removal: Innovative materials, 253-280, Springer Publications.
5. Sengupta S., Das P., Datta S.2018, Fermentative Production of Optically Pure Lactic Acid from Renewable Materials, In: Encyclopedia of Renewable and Sustainable Materials. Eds: M.A. Maleque, E. Bayraktar, I. Choudhury, D. Grau, J. Haider, S. Hashmi, M. Hashmi, G. Majumdar, H. Metselaar, Z. Qamar, M. Roy, Elsevier [DOI: 10.1016/B978-0-12-813195-4.11031-4] (*In press*).
6. Sengupta S., Manna S., Roy U, Das P.2018 Manufacturing of biodegradable poly lactic acid (PLA): Green alternatives to petroleum derived plastics, Encyclopedia of Renewable and Sustainable Materials. Eds: M.A. Maleque, E. Bayraktar, I. Choudhury, D. Grau, J. Haider, S. Hashmi, M. Hashmi, G. Majumdar, H. Metselaar, Z. Qamar, M. Roy, Elsevier [DOI: 10.1016/B978-0-12-813195-4.11031-4] (*In press*).
7. R. Das, S. Das, C. Bhattacharjee, 2018 CO₂ sequestration using Algal biomass and its application as bio-energy, (Chapter 32), in ‘Encyclopedia in Renewable & Sustainable Materials’, Vol. 9, Ed: Dr. Gautam Majumdar, Elsevier-UK. DOI: 10.1016/B978-0-12-803581-8.11030-6
8. R. Das, B. Samanta, C. Bhattacharjee, 2018 Traditional Biomass: a replacement for Petro-fuels, (Chapter 41), In ‘Encyclopedia in Renewable & Sustainable Materials’, Vol. 9, Ed: Dr. Gautam Majumdar, Elsevier-UK. DOI: 10.1016/B978-0-12-803581-8.11039-2
9. R. Das, C. Bhattacharjee, 2018 Engineered nanomaterial in environmental industry, (Chapter 54) In ‘Handbook of Nanomaterials for Industrial Applications’, Ed: Chaudhery Mustansar Hussain, Elsevier, Cambridge, MA 02139, United States. ISBN: ISBN 978-0-12-813351-4
10. R. Das, A. Mondal, C. Bhattacharjee, 2018 (Chapter 23) Membrane Technology- A Sustainable Approach for Environmental Protection, In “Membrane Technology- A Sustainable Approach for Environmental Protection”, Ed: Dr. S. Sridhar, Taylor & Francis (CRC Press), pp 477-494, Boca Raton, NW, 2018. ISBN-13:978-1-138-09542-7

11. R. Das, C. Bhattacharjee, 2018 Hydrogel nanocomposites for controlled drug release, (Chapter 23), In Applications of Nanocomposite Materials in Drug Delivery Ed: Inamuddin S., Abdullah M. Asiri and Ali Mohammad, Woodhead Publishing, Elsevier, Cambridge, MA 02139, United States, ISBN: 978-0-12-813741-3

4. B. Articles Published in Journals: (Including National/International & peer-reviewed Journals) 2019

1. Chowdhury, Ranjana, Shiladitya Ghosh, Dinabandhu Manna, Sumona Das, Sambit Dutta, Sabine Kleinstuber, Heike Sträuber, Md Kamrul Hassan, Suvi Kuittinen, and Ari Pappinen. "Hybridization of sugar-carboxylate-syngas platforms for the production of bio-alcohols from lignocellulosic biomass (LCB)—A state-of-the-art review and recommendations." *Energy Conversion and Management* 200 (2019): 112111 (<https://doi.org/10.1016/j.enconman.2019.112111>)
2. Ghosh, S., Das, S., & Chowdhury, R. (2019). "Effect of pre-pyrolysis biotreatment of banana pseudo-stem (BPS) using synergistic microbial consortium: Role in deoxygenation and enhancement of yield of pyro-oil". *Energy Conversion and Management*, 195, 114-124.
3. J. Modak, A. Bhowal, S. Datta, "Continuous decolorization of dye solution by homogeneous Fenton process in a rotating packed bed reactor". *International Journal of Environmental Science and Technology* (2019) article in press.
4. R. Gopinathan, A. Bhowal, C. Garlapati, "Adsorption Studies of Some Anionic Dyes Adsorbed by Chitosan and New Four-Parameter Adsorption Isotherm Model". *Journal of Chemical Engineering Data* 64 (2019) 2320-2328.
5. A. Sen, A. Bhowal, S. Datta, "Application of natural dye on polytrimethylene terephthalate fiber". *Research Journal of Textile and Apparel*. 23(2019) 71-90.
6. U. Roy, P. Das, A. Bhowal, "Treatment of azo dye (congo red) solution in fluidized bed bioreactor with simultaneous approach of adsorption coupled with biodegradation: optimization by response surface methodology and toxicity assay". *Clean Technologies and Environmental Policy* (2019) article in press
7. Biswajit Debnath, Abhirup Mukherjee, Aditi Mullick, Souradip Ghosh Dastidar, Saibal Ganguly, Kajari Kargupta, "Desublimation based separation of CO₂ inside a cryogenic packed bed: Performance mapping with the spatiotemporal evolution of CO₂ frost", *Chemical Engineering Research Design*, (2019)146, 166-181, DOI: cherd.2019.03.024.
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Annual Report 2018-19

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Annual Report 2018-19

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5. Collaborative Programs

Research Collaboration with University of Eastern Finland and Helmholtz Centre for Environmental Research (UFZ), Germany on Development of efficient biomass conversion routes for biofuel production and utilization (2018 – 21)

6. Major Achievements:

Indian Patent Granted:

1. Title: A heterogeneous base catalyst and a process for the synthesis of fuel grade biodiesel involving the same

Annual Report 2018-19

Inventor: Rajat Chakraborty; Application no. 1544/KOL/201; Patent No. 288982 (October, 2017)

2. Mondal, S.; Roy, D.; Roy, S.; Mukhopadhyay, K.; Prasad, N.E. Gamma Radiation Composite and its Preparation thereof. DRDO, New Delhi, Ministry of Defence, Govt. Of India, Appl. No: 201711018290, November, 2017 (Filed).
3. Awarded 8th National Award (Runner up) for Technology Innovation for the nomination “Novel Biodegradable natural filler reinforced hybrid polymer Composites”, under the category of Green/ Biodegradable Polymer by Department of Chemicals and Petrochemicals, Govt of India, January, 2019 Awardee: Prof P Das
4. Received NSSWM Excellent Paper Award-2019 for R. Das, C. Bhattacharjee, Application of Nanotechnology for Pharma Industry Effluent Treatment - A Sustainable Process Development, in National Symposium on Sustainable Waste Management (NSSWM-2019), 20th April 2109, Institute of Engineering and Management, Kolkata. Awardee: Jointly R. Das, C. Bhattacharjee
5. Received Research Innovation Award (1st Prize), in “National Symposium on Applications of Engineering and Technology towards Sustainable Growth” Organized by TEQIP III Twinning Program, FET, JU and Vivekananda Institute of Environment and Management, 4th June 2019, Jadavpur University, Kolkata. Awardee: Jointly R. Das, C. Bhattacharjee

CIVIL ENGINEERING

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1. A. Courses Offered:

Name of the Course	Duration of Course	No. of Students Enrolled
B.E. in Civil Engg.	4 Years	141
B.E. (Evening) in Civil Engg.	5 Years	47
M.E. in Civil Engg.	2 Years	28

1. B. Number of Faculty Members: 21

2. Area of Research Activities: (Broad Areas)

- Structural Engineering
- Composite Structures
- Acoustics
- Advanced Concrete Technology
- Soil Mechanics and Foundation Engineering
- Geotechnical Earthquake Engineering
- Geo-environmental Engineering
- Ground Improvement

- Underground Construction
- River Mechanics and Engineering
- Traffic and Transportation Engineering
- Highway Engineering
- Geohazards and Disaster Management
- Remote Sensing, GIS and Geostatistics
- Seepage Flow and Hydraulic Structure
- Environmental Engineering
- Solid Waste Management
- Air Pollution and Control

3. A. Invited Lectures:

Invited Lecture Details

1. Prof. Anupam Debsarkar delivered a lecture in the two-day long Faculty Development Programme organized by Tripura Institute of Technology (TIT), Narsingarh on “Ground water Contamination & Management” on 26-27 July, 2018 on the topic “Groundwater scenario of India” under TEQIP-III.
2. Prof. Anupam Debsarkar delivered a lecture in the two-day long Faculty Development Programme organized by Tripura Institute of Technology (TIT), Narsingarh on “Ground water Contamination & Management” on 26-27 July, 2018 on the topic “Fluoride Contamination in Ground water” under TEQIP-III.
3. Prof. Anupam Debsarkar delivered an invited lecture on “Groundwater Contamination – An Indian Scenario” at Ellite Institute of Engineering & Management, on 27th September, 2018.
4. Prof. Anupam Debsarkar delivered an invited lecture on “Plastic Waste Management – An Indian Scenario” at the State Level Seminar on “Our Legacy of Wild Life & Environment: Today & Tomorrow”, organized by Department of Zoology, Serampore College in collaboration with WWF and at CLRC Auditorium, Serampore College on 13th October, 2018.
5. Prof. Anupam Debsarkar delivered five invited lectures on the topic “Rural Solid & Liquid Waste Management” over the months August-November, 2017 under the purview of “Value Added Training Programme for Nirman Sahayaks of Government of West Bengal” organized by Department of Civil Engineering, Meghnad Saha Institute of Technology over the period of November-December, 2018.
6. Prof. Anupam Debsarkar delivered a lecture in the three-week long UGC-HRDC Sponsored Refresher Course on “Disaster Management: Water and Environmental Sanitation” organized by School of Water Resources Engineering, Jadavpur University, at the Seminar Room of School of Energy Studies, Jadavpur University on the topic “Disaster Management: Water Pollution” on 28th January, 2019.
7. Prof. Anupam Debsarkar delivered an invited lecture on “Integrated Arsenic Remediation from Contaminated Groundwater: Field Trials in Dhapdhapi, South 24 Parganas”, at the National Seminar on “Groundwater Arsenic Contamination Problem in Ganga-Meghna-Brahmaputra (GMB) Plain: It’s Health Effects, Socio-Economic Implications and Mitigation Strategies”, jointly organized by Department of Economics, Vijaygarh Jyotish Ray College and School of Environmental Studies, Jadavpur University, on 25th March, 2019 at Vijaygarh Jyotish Ray College, Kolkata.
8. Prof. Tumpa Hazra delivered a lecture in the QIP sponsored Faculty Development Programme on “Ground Water Contamination and Management” organized by Department of Civil Engineering, Tripura Institute of Technology, Tripura on 26th and 27th July, 2018.

Annual Report 2018-19

9. Prof. Tumpa Hazra delivered a lecture in the MOEF& CC sponsored Short course, under the auspices of CPCB, GOI on “air & water pollution” under green skill development programme (GSDP) organized by Centre for Disaster Preparedness & Management” and “Global Change Program” of Jadavpur University on 18th December, 2018 on “Our Hydrosphere: Structure of Hydrosphere, Hydrological Cycle, Composition of Hydrosphere”.
10. Prof. Tumpa Hazra delivered a lecture in the MOEF& CC sponsored Short course, under the auspices of CPCB, GOI on “air & water pollution” under green skill development programme (GSDP) organized by Centre for Disaster Preparedness & Management” and “Global Change Program” of Jadavpur University on 4th January, 2019 on “Monitoring Techniques & Analysis of Water Pollutants: Industrial & Municipal Waste Water Pollutants & Life Time of Pollutants”.
11. Prof. Tumpa Hazra delivered a lecture in the QIP sponsored Faculty Development Programme on “Ground Water Contamination and Management” organized by Department of Civil Engineering, Tripura Institute of Technology, Tripura on 26th and 27th July, 2018.
12. **Prof. S. P. Mukherjee** delivered a lecture on “liquefaction of soil—an effect of earthquake” at Heritage Institute of Technology on 22.04.2018.
13. **Prof. S. P. Mukherjee** delivered a lecture on “Behaviour of single pile under combined uplift and lateral loading” at IIT Bombay on May 17, 2018.

3. B. Refresher Courses/ Orientation Courses/ Short Term Courses/ Workshop Attended:

Details of the Course

1. **Prof. Anupam Debsarkar** participated in the workshop entitled “Community Dialogue on Kolkata’s Air Pollution” organized by Institute of Future Studies, University of Strathclyde, UK and Environment Governed Integrated Organization (EnGIO), Kolkata on 8th February, 2019 at Lions’ Club Auditorium, Deshapriya Park, Kolkata.
2. **Prof. Anupam Debsarkar** participated in the Panel Discussion on “A step towards a consensus on fighting Air Pollution: A Pulmonologist’s perspective”, as an expert at ACPCON-2019, held on 16th February, 2019 at Raas Mancha, Swabhumi, Salt Lake.

3. C. Refresher Courses/ Orientation Courses/ Short Term Courses/ Workshop Organized:

Details of the Course Coordinators

1. **Prof. Anupam Debsarkar** and **Prof. Gupinath Bhandari**, Jointly conducted a short term course on “Air & Water Pollution” under Green Skill Development Programme, MoEF & CC, Govt. of India from 20th Nov, 2018 to 14th Jan, 2019 at Seminar Room-II, Department of Civil Engineering, Jadavpur University. Prof. Gupinath Bhandari & Prof. Anupam Debsarkar
2. **Prof. S. P. Mukherjee** acted as a Committee Member in a one day International workshop on “Health Monitoring and Rehabilitation of Structures” held on 7th December, 2018 organised by centre for Disaster Management, Jadavpur University

4. A. Books/ Monographs/ Book Chapters etc. Published: (Title of Books/ Monographs/ Book Chapters etc.–Authors–Book Title–Year and Publisher)

1. Sustainable Management of Arsenic-Bearing Sludge –Mookherjee, I., Roy, A., Dutta, A., Debsarkar, A., and Aitch, P –Waste Management and Resource Efficiency, –2019&Springer Publication
2. Selection of Suitable Landfill Site for Municipal Solid Waste Disposal: A Fuzzy Logic Approach –S. Alam, K. A. Kolekar, T. Hazra, S.N. Chakrabarty –Waste Management and Resource Efficiency –2018&Springer Publication
3. Fuzzy logic modelling to predict residential solid waste generation: A case study of Baranagar –K. A. Kolekar, T. Hazra, S.N. Chakrabarty –Waste Management and Resource Efficiency –2018&Springer Publication

4. Uncertainties in Site Characterization Using Surface Wave Techniques and Their Effects on Seismic Ground Response –Jakka RS and Roy N –Geotechnics for Natural and Engineered Sustainable Technologies – 2018&Springer Publication
5. Leachate and Septage Management of Model Regional Waste Management Centre of Six Waste Bank Municipalities of River Hooghly –Dutta, A., Roy, A., and Mookherjee, I. –Waste Management and Resource Efficiency –2019

**4. B. Articles Published in Journals (Including National, International & Peer-reviewed Journals):
(Title –Journal Name –Authors –Year, Volume (No.), Pages)**

1. Rainwater Harvesting (RWH)-A path not profusely explored to solve the crisis of water scarcity – Indian Ground Water –Satabdi Biswas, Anupam Debsarkar and Gupinath Bhandari –Vol-XI, July, 2018, pp-24-47
2. Hexavalent Chromium Tolerance of Bacterial Strains Isolated from Tannery Effluent Contaminated Soil – International Journal of Innovative Research & Studies –Piku Sen, Anupam Debsarkar and Debasish Pal Vol-8, 2018 Issue IV
3. Impact of water demand on hydrological regime under climate and LULC change scenarios –Environmental Earth Sciences, Springer-Verlag GmbH Germany, Part of Springer Nature –Satiprasad Sahoo, Anirban Dhar, Anupam Debsarkar and Amlanjyoti Kar –Vol-77, 2018, page-341-359
4. Future Scenarios of Land-Use Suitability Modeling for Agricultural Sustainability in a River Basin –Journal of Cleaner Production, Elsevier Publication –Satiprasad Sahoo, Indrani Sil, Anirban Dhar, Anupam Debsarkar, Pulakesh Das and Amlanjyoti Kar –Vol-205, Page- 313-328, September- 2018
5. Concrete stabilization of arsenic-bearing iron sludge generated from an electrochemical arsenic remediation plant –Journal of Environmental Management, Elsevier Publication –Abhisek Roy, C. M. van Genuchten, Indranil Mookherjee, Anupam Debsarkar and Amit Dutta –Vol- 233, page-141–150, 2019
6. Technology alternatives for decontamination of arsenic-rich groundwater—A critical review –Environmental Technology & Innovation, Elsevier Publication, –Sudipta Ghosh (Nath), Anupam Debsarkar and Amit Dutta –Vol- 13, page-277–303, January, 2019
7. Future Scenarios of Environmental Vulnerability Mapping Using Grey Analytic Hierarchy Process – Natural Resources Research, Springer Publication –Satiprasad Sahoo, Anirban Dhar, Anupam Debsarkar and Amlanjyoti Kar –pp-1-23 January, 2019
8. Lead Removal from Landfill Leachate by Electrocoagulation process using Iron Electrodes: Influence of pH and Direct Current, –Research Journal of Chemistry and Environment –Maiti, S., Hazra, T., Debsarkar, A., –2019, 23(6), 62-69
9. Sustainable treatment of municipal landfill leachate by combined association of air stripping, Fenton oxidation and enhanced coagulation –Environmental Monitoring and Assessment –De, S., Hazra, T., Dutta, A. – 2019, 191:49
10. First ply failure performances of composite clamped spherical shells. –Mechanics of Composite Materials –A.Ghosh, D.Chakravorty –May, 2018, 54(2), 191 - 206
11. Nonlinear first ply failure analysis of composite skewed hypar shells using FEM –Structural Engineering and Mechanics – An International Journal –A.Ghosh, D.Chakravorty –68(1), 2018, 81–94
12. First Ply Failure Analysis of Laminated Composite Thin Hypar Shells Using Nonlinear Finite Element Approach –Thin-Walled Structures –A.Ghosh, D.Chakravorty –131 (2018) 736–745
13. Performances of Composite Hypar Shells in Progressive Failure Applying FEM –Strength of Materials –A.Ghosh, D.Chakravorty –2 (2019) in press
14. First Ply Failure Study of Laminated Composite Conoidal Shells using Geometrically Nonlinear Formulation –Recent Advances in Theoretical, Applied, Computational and Experimental Mechanics: Proceedings of

Annual Report 2018-19

- ICTACEM 2017 - Springer –K.Bakshi, D.Chakravorty –2019, in press
15. Application of FEM on first ply failure of composite hypar shells with various edge conditions –Steel and Composite Structures , An International Journal –A.Ghosh, D.Chakravorty –In press
 - 16..Influence of metal oxide (V_2O_5) in recycled waste materials for advanced durable construction technology Construction and Building Materials –Manas Sarkar, Moumita Maiti, Muhammad Akbar Malik, Shilang Xua, Qinghua Li, Saroj Mandal –2018, 171, 770-778
 17. Local Site Effect Due to Past Earthquakes in Kolkata –Journal of the Geological Society of India –Amit Shiuly R. B. Sahu, Saroj Mandal, Narayan Roy –2018, 91(4), 400-410
 18. Iron Oxide NPs Facilitated a Smart Building Composite for Heavy-Metal Removal and Dye Degradation –Journal ACS Omega –Manas Sarkar, Moumita Maiti, Muhammad Akbar Malik, Shilang Xua, Qinghua Li Saroj Mandal –Volume 3 Issue 1 Pages1081-1089
 19. An Alkaliphilic Bacterium BKH4 of Bakreshwar Hot Spring Pertinent to Bio-Concrete Technology – Journal of Applied Microbiology –A. Sarkar, A. Chatterjee, S. Mandal, B. Chattopadhyay –Wiley Feb 2019
 20. Response of square plates embedded in reinforced soft clay subjected due to cyclic loading –Geomechanics and Engineering, Techno Press –J. Biradar, S. Banerjee, R. Shankar, P. Ghosh, S. Mukherjee and B. Fatahi –2019
 21. A study on the effect of measured shear wave velocity from V_s -N correlation on seismic site response analysis. –Journal of Earth System and Science –Roy N, Shiuly A, Sahu RB, Jakka RS –2018 127:103
 22. Earthquake Magnitude Conversion Problem –Bulletin of Seismological Society of America –Das R, Wason HR, Gonzalez G, Sharma ML, Choudhury D, Roy N, Salazar P –2018 108:4
 23. Treatment of landfill leachate by integrated sequence of air stripping, coagulation-flocculation and adsorption... –Environ Dev Sustain –De, S., Hazra, T., Dutta, A. –2019 21(2), 657-677
 24. A Comprehensive Optimisation Model for Integrated Solid Waste Management System — a Case Study on Kolkata city, India.–Environmental Engineering Research. –Paul, K., Chattopadhyay, S., Dutta, A., Krishna, A.P., Ray, S. –(2017) Vol 24(2): pp. 220-237.
 25. Gas Management and Energy Recovery from Municipal Solid Waste Landfill. –International Journal of Research in Advent Technology –Chattopadhyay, S., Dutta, A., Ray, S., Roy, A., and Prof, A. –2018 6(5).
- 4. C. Publications in Seminars/ Conferences: (Title –Seminar/ Conference Details –Authors –Place, Year)**
1. Integrated Arsenic Remediation from Contaminated Groundwater: Field Trials in Dhapdhapi, South 24 Parganas –National workshop on ‘Arsenic Contamination And Sustainable Technological Solutions In India (ACASTSI-2019)’, organized by NSHM, Faculty of Business and Management Studies, in collaboration with “Save the Environment (STE)”, during –Sudipta Ghosh (Nath), Abhisek Roy, Anupam Debsarkar & Amit Dutta –NSHM Knowledge Campus, Durgapur, 26 -27 February, 2019,
 2. Electrochemical Arsenic Remediation-An Alternative to get Arsenic Safe Water –National Seminar on “Groundwater Arsenic Contamination Problem in Ganga-Meghna-Brahmaputra (GMB) Plain: It’s Health Effects, Socio-Economic Implications and Mitigation Strategies”, jointly organized by Department of Economics, Vijaygarh Jyotish Ray College and School of Environmental Studies, Jadavpur University –Sudipta Ghosh (Nath), Anupam Debsarkar & Amit Dutta –25th March, 2019 at Vijaygarh Jyotish Ray College, Kolkata.
 3. Stabilization of Arsenic Remediation Plant Generated Arsenic Sludge in Building Materials–National Seminar on “Groundwater Arsenic Contamination Problem in Ganga-Meghna-Brahmaputra (GMB) Plain: It’s Health Effects, Socio-Economic Implications and Mitigation Strategies”, jointly organized by Department of Economics, Vijaygarh Jyotish Ray College and School of Environmental Studies,

Annual Report 2018-19

- Jadavpur University – Abhisek Roy, Anupam Debsarkar & Amit Dutta –25th March, 2019 at Vijaygarh Jyotish Ray College, Kolkata.
4. Socio-economic Appraisal of Arsenic Pollution and Rain Water Harvesting (RWH): A case study of Amdanga Block, North 24 Parganas, West Bengal, India –National Seminar on “Groundwater Arsenic Contamination Problem in Ganga-Meghna-Brahmaputra (GMB) Plain: It’s Health Effects, Socio-Economic Implications and Mitigation Strategies”, jointly organized by Department of Economics, Vijaygarh Jyotish Ray College and School of Environmental Studies, Jadavpur University –Satabdi Biswas, Anupam Debsarkar and Gupinath Bhandari –25th March, 2019 at Vijaygarh Jyotish Ray College, Kolkata.
 5. Nonlinear First Ply Failure of Composite Hypars – A Finite Element Application –Structural Engineering Convention (SEC-2018) (11th International Conference) –Arghya Ghosh, Dipankar Chakravorty –Jadavpur University, Kolkata, December 19-21, 2018.
 6. Random Wind Induced Base Shear and Moments of Self Supported Concrete Chimneys –Structural Engineering Convention (SEC-2018) (11th International Conference) –Susmita Choudhury, Soumyadip Datta, Dipanjan Mani, Dipankar Chakravorty –Jadavpur University, Kolkata, December 19-21, 2018.
 7. Application of Nonlinear Finite Elements to Study Failure of Composite Conoidal Shell Roofs –Structural Engineering Convention (SEC-2018) (11th International Conference) –Kaustav Bakshi, Dipankar Chakravorty –Jadavpur University, Kolkata, December 19-21, 2018.
 8. Response of single pile to lateral load with constant uplift –ICAMAG 2019 –P. Ghosh, S. P. Mukherjee, N. Roy, S. Banerjee –IIT Gandhinagar, 2019
 9. Effect of Ground water level and seismic intensity on failure of a slope –ICAMAG 2019 –S. Dutta, R. K. Dubey, S. P. Mukherjee and N. Roy –IIT Gandhinagar, 2019
 10. Study on stability of a slope under non seismic and seismic conditions –IGS Kolkata Chapter –S. Dutta, S. P. Mukherjee and N. Roy –Jadavpur University, 2018
 11. Effectiveness of clay core in an embankment under seismic condition –ICAMAG 2019 –S. Tung, S. P. Mukherjee and G. Bhandari –IIT Gandhinagar, 2019
 12. Influence of source characteristics on the uncertainties in MASW survey –7th International Conference on Earthquake Geotechnical Engineering –Desai, Aniket Sanjay; Roy, Narayan, Jakka, Ravi Sankar; Narayan, J. P.; Kranthi Kumar, Alla –VII ICEGE, Roma (Italy), 17-20 June, 2019
 13. Interior acoustic analysis of arbitrary shaped rigid cavity with absorbent layer –Structural Engg Convention (Sec-2018), Jadavpur University –Dibyayati Sahana, Subhankar Pramanik, Sreyashi Das, Arup Guha Niyogi –Jadavpur University, 2018
 14. Free vibration and buckling of sandwich plate with cut-out –Structural Engg Convention (Sec-2018), Jadavpur University –Subhankar Pramanik, Sreyashi Das –Jadavpur University, 2018
 15. Interior acoustic analysis of arbitrary shaped rigid cavity with absorbent layer –Structural Engg Convention (Sec-2018), Jadavpur University –Dibyayati Sahana, Subhankar Pramanik, Sreyashi Das, Arup Guha Niyogi –Jadavpur University, 2018
 16. Groundwater arsenic scenario of rural Murshidabad (West Bengal) from Epidemiological and Socio-economic Perspective: A Critical Review –International Seminar on “Rural Development in India: Contemporary Reflection” at The Centre for Studies in Decentralization and Rural Reconstruction (CSDRR) –Ghosh (Nath) S., Debsarkar A., Dutta A. –Rabindra Bharati University, 26th-27th April, 2018.
 17. Electrochemical Arsenic Remediation- An alternative to get Arsenic Safe Water –One Day National Seminar on “Groundwater Arsenic Contamination Problem In Ganga- Meghna-Brahmaputra (GMB) Plain: Its Health Effects, Socio-Economic Implications & Mitigations Strategies” –Ghosh (Nath) S., Roy A., Debsarkar A., Dutta A. –Department of Economics, Vijoygarh Jyotish Ray College on 25th March, 2019

Annual Report 2018-19

5. Ph.D. Thesis Completed:(Title –Year –Candidate –Status)

1. Utilization of slaughterhouse wastes as soil conditioner for plantation of vegetable crops: A feasible option for waste minimization–2019–Malancha Roy–Submitted and defended.
2. Assessment of Municipal Landfill Leachate Pollution Potential on Adjoining water Resources and its remediation with Special Reference to Mercury–2018–S. De–Awarded.
3. Improvement of geotechnical properties of clayey soil by mixing plastic wastes–2019–P.V.Raghu–Provisional Certificate issued.
4. “Study of Seepage through Earthen Dam and Foundation by Numerical and Centrifuge Modeling” –2019 –Smita Tung–Viva Voce over.

6. Collaborative Programmes:

Details

1. **Prof. S. P. Mukherjee** is doing a collaborative project on “Dynamic behaviour of anchor plates in soft clay with geosynthetic reinforcement”, A SERB sanctioned Project for Rs. 33,91, 800/- sanctioned in May, 2015 is still continuing.

COMPUTER SCIENCE & ENGINEERING

Phone : +91-33-2413-1766

Int. : 2457-2574

H.O.D : Professor Ujjwal Maulik

Dr. Mahantapas Kundu (w.e.f.11.10.2018)

E-mail : hodcse@jadavpuruniversity.in

1. A. Courses Offered :

Name of the Course	Duration of the Course	No. of Students
BCSE	4 years	86
MCA	3 years	48
MCSE	2 years	38
MTCT	3 years	39

1. B. Number of Faculty Members:

Professor – 18

Associate Professor - 3

Assistant Professor - 6

2. A. Area of Research Activities (Broad Areas):

Machine Learning, Artificial Intelligence, Pattern Recognition, Computational Intelligence, Bioinformatics, Video and Image Processing, Face Recognition, Medical Image Analysis, Parallel Algorithms, Cloud Computing, Internet of Things, Soft computing, Data Mining, Wireless and Mobile Computing, Wireless Sensor Networks, Quantum Computing, Natural Language and Speech Processing, Emotion and Sentiment Analysis, Security, Distributed Computing, Social Network Analysis, Big Data Storage and Management.

2.B.Sponsored Projects Carried Out/ongoing (2018-19): (Project Title–Role–Funding Agency–Amount–Duration–Period)

Ujjwal Maulik

Erasmus Mundus Mobility with Asia (EMMA+) (European-Asian mobility program)–Indian Joint Coordinator (EMMA+) (European-Asian mobility program)– 3 Years–2017-2019

A big data perspective for energy management in smart grids and dwellings–Principal Investigator– DST-INRIA-CNRS targeted Indo-French Joint project, Funding agency Department of Science and Technology, Govt. Of India– 3 Years –2015-2018

PURSE - II, Department of Computer Science and Engineering, Jadavpur University–Principal Investigator –Department of Science and Technology, Govt. Of India -2 years–2016-2018

Subhadip Basu

Hand Gesture Recognition in Video for Speech and Hearing Disabled–Principal Investigator–RUSA-2, MHRD, Govt. of India–Rs.5,70,000/-1 Year–2019-20

Development of some analytical tools for analysis of large-scale protein-protein interaction networks– Principal Investigator–DBT, Govt. of India–Rs.48,22,125/-3 Years–2017-20

Multispectral Image Analysis for Various Security and Medical Applications–Co- Investigator–PURSE-II, DST, Govt. of India–Rs.37,00,000–3 Years–2015-19

Design of a Multimodal Biometric System for Various Security and Forensic applications (Phase-II)– Principal Investigator–UPE-II, UGC, Govt. of India–Rs.13,70,000–4 Years–2015-19

Development of a new morphological operator for multi-scale opening of conjoined objects–Principal Investigator (Research Award)–UGC, Govt. of India–Rs.3,00,000/-(excluding salary component)–2 Years –2016-18

Ram Sarkar

Multi-lingual Text Analytics for Camera-based Handheld Devices–Investigator–DST, SERB, Govt. of India–Rs.25,96,440/-3 years–2017-20

Sarbani Roy, Dr. Chandreyee Chowdhury, Dr. Nandini Mukherjee, Dr. Sarmistha Neogy

Environmental Monitoring: Testbed of Mixed Wireless Sensor Networks–One of the investigators– Department of Science and Technology, Promotion of University Research and Scientific Excellence (DST, PURSE Phase-II), Govt. of India–4 Years–2015-19

Nandini Mukherjee

Remote Health: A Framework for Health-care Services using Mobile and Sensor-cloud Technologies– Lead PI of a team of six collaborating institutions and PI of Jadavpur University–Information Technology Research Academy, Media Lab Asia, Ministry of Electronics and Information Technology, (MeitY), Govt. of India -5 Years–2013 – 2018

Sarbani Roy

Participatory and Real Time Pollution Monitoring system for Smart City–Principal Investigator–Higher Education, Science & Technology and Biotechnology, Department of Science & Technology, Government of West Bengal–Rs. 13,20,800–3 Years–2018-2021

Performance based Resource Management and Load balancing in Cloud Environment–Principal Investigator UGC UPE (II)–3 years–2015-2019

Sarmistha Neogy

Development of High speed MANET for intelligent collaboration –Individual–DRDO–Rs.64.3565/-2 Years–

Susmita Ghosh

Fuzzy Set Theoretic Approach for Moving Object Detection and Tracking - DST-PURSE II Project –Principal Investigator–Department of Science and Technology, Promotion of University Research and Scientific Excellence (DST, PURSE Phase-II), Govt. of India–4 Years–2015-2019

Debotosh Bhattacharjee

Development of object detection techniques from degraded complex video sequences due to dynamic variations of scenes by different atmospheric conditions for security and surveillance–Individual (PI)–DRDO, Govt. of India.

Multispectral Image Analysis for Various Security and Medical Applications–Individual(Co-PI)–PURSE-II, Govt. of India

Design of a Multimodal Biometric System for Various Security and Forensic applications Individual(Co-PI)–UPE-II, Phase-II, Govt. of India

Prediction of diseases through computer assisted diagnosis system using images captured by minimally-invasive and non-invasive modalities–Individual(Co-PI)–SPARC, MHRD, Govt. of India

Development of a computer-assisted diagnosis system for segmenting and detecting abnormalities and disease diagnosis–Individual (PI)–International Bilateral Cooperation Division, DST Govt. of India-

Nibaran Das

Development of knowledge graph from images using Deep learning–Principal Investigator–Extra Mural Research Project,(PI), SERB, Govt. of India–Rs. 33,00,000–3 Years–2016-2019

Automatic Generation of Cytological Images to Augment Data for Diagnosis of Ductal Carcinoma Using Deep Learning–Principal Investigator–SERB, Govt. of India–Rs. 26,93,500–3 years–2019-2022

Kamal Sarkar

Indian Social Media Sensor: an Indian Social Media Text Mining System for Topic Detection, Topic Sentiment Analysis and Opinion Summarization–Principal Investigator–DST-SERB–Rs. 23,96,000/–3 Years

Diganta Saha

Cache Memory Management in Mobile Environment–Principal Investigator–UGC(Under UPE II)–Rs. 10.87 Lakhs–4 Years–2015-2019

Chandreyee Chowdhury

Participatory and Real Time Pollution Monitoring system for Smart City–Co-PI–Higher Education, Science & Technology and Biotechnology, Department of Science & Technology, Government of West Bengal –Rs. 13,20,800–3 Years–2018 – 2021

Designing a Framework for Efficient Computation Offloading–Principal Investigator–UGC-UPEII scheme, Jadavpur University–Rs. 12.8 lakh (approx.)–3.5 years (approx) –2015-19

Chitrita Chaudhuri

“Application of Case Based Reasoning in Signature Authentication to Prevent Fraudulent Transaction” under Mobile Computing and Innovative Application–Principal Investigator–UGC UPE Phase II project –Years - 2019

3. A. Invited Lectures Delivered by Faculty Members:

Subhadip Basu

International:

1. “Bioimage Informatics @JU – Methods & Applications”, Hannover Medical School, Germany, May 15, 2018

National :

Invited talk in the TEQIP sponsored one day seminar “ Biomedical Engineering in Human Welfare” on 3rd August, 2018, arranged by the School of Bioscience and Engineering, Jadavpur University.

Nandini Mukherjee

1. Invited lecture in a workshop on “Uncertainty Management in Health Informatics” held between 31st July and 5th August 2018 at IEST, Shibpur. Delivered lecture on 2nd July 2018.
2. Delivered a lecture in a seminar on “Internet of Things (IOT) -Technologies and Applications” organised by The Institution of Engineers (India) West Bengal State Centre, Electronics & Telecommunication Engineering Division held on 21st June 2018.

Sarbani Roy

1. Invited two lectures in TEQIP-III sponsored two days Short Term Training Programme (STTP) on “IoT: Related Technologies and Applications” at RTU, Kota, Rajasthan, 17-18 Sept, 2018.
2. An invited keynote talk on IoT and its Applications in 5th International Conference on Mathematics and Computing (ICMC 2019), at KIIT, Bhubaneswar, Odisha, 8th February 2019.

Sarmistha Neogy

1. Invited talk on “Protecting Privacy Case Study: Healthcare” in Faculty Development Program on “Cryptography and Cyber Security”, B. P. Poddar Institute of Management and Technology, March 25-29, 2019.
2. Invited plenary lecture on “Cyber Security and Misuse of social Media” organized by IQAC & Dept. of Computer Science, Gobardanga Hindu College, October 05, 2018.
3. Invited lecture on “Network Security” in seminar on Network Security, Siliguri Institute of Technology, August 13, 2018
4. Invited lecture on “Network and Internet Security” at ACM India supported Summer School on Information Security and Forensics (for Women), during June 21-22, 2018, Bangalore

Sudip Kumar Naskar

1. Invited talk on “Cross-Lingual Information Retrieval on Digital Libraries” in 7 days International Training Programme on Library Automation for Professional Enrichment (ITPLAPE), 10-16 December, 2018, at Satyajit Ray Film & Television Institute (SRFTI), E.M. Bypass, Panchasayar, Kolkata, West Bengal 700094, India
2. Invited talk on “Natural Language Processing: Challenges and Prospects” in the National Students Computing Conference held during 21-22 April, 2018, at Veer Surendra Sai University of Technology (VSSUT), Burla, Sambalpur, Odisha, India.

Ujjwal Maulik

1. Invited keynote talk on “Data Mining in Multi-objective Framework”, 27th International Electrotechnical and Computer Science Conference, (ERK 2018), Portoroz, Slovenia, September 18, 2018.
2. Invited keynote talk on “Computational Intelligence for Data Science: simple to Big Data”, Int. Conf. on Computational Intelligence (ICCI2018), Dec. 10-11, 2018, BIT Measra, Ranchi, India.
3. Invited keynote talk on “Data Science and Machine Learning: Recent Issues and Challenges”, 2nd Int. conf. on Computational and Communication Paradigm, Feb. 25-28, 2019, Sikkim, India

Annual Report 2018-19

Susmita Ghosh

1. Guest lecture at Vellore Institute of Technology, Vellore, February 21, 2019.
2. Delivered a lecture at the National Level Workshop entitled “Remote Sensing and Signal Processing” on “Semi supervised Neural Networks for Change Detection of Remotely Sensed Images,” Guwahati University, December 27, 2018.
3. Special classes on “Soft Computing” at Tripura Institute of Technology under Twining Plan of TEQIP III, October 11-12 and November 17-19, 2019.
4. Series of lectures on a workshop on “Neural Networks and Learning Systems” School of Information Technology, King Mongkut’s University of Technology, Thonburi, Thailand, September 24-28, 2018.
5. Delivered a lecture at an Induction Program entitled “Machine Learning and Soft Computing” on “Evolutionary Computation and its Applications,” Seemanta Engineering College, Odisha, July 09, 2018.
6. Delivered a series of lectures on “Neural Networks and Learning Machines” at IDRBT, Hyderabad, June 04-06, 2018.
7. Delivered a lecture at an FDP entitled “Machine Learning” on “Evolutionary Computation” at GITAM University, Hyderabad, June 03, 2018.
8. Session Chair: CoDS-COMAD - Jan 03, 2019.

Nibaran Das

1. Acted as an invited speaker for the workshop on Pattern Analysis and Machine Intelligence (PAMI): Document understanding to healthcare in the conference RTIP2R-2018, organized by Solapur University, Solapur, Maharashtra on December 20, 2018.
2. Acted as an invited speaker on the tutorial session in the Second International Conference on Advanced Computational and Communication Paradigms (ICACCP-2019) during February 25-28 2019 organized by SMIT, Sikkim.

Kamal Sarkar

1. Session Chair, Second International Conference on Advanced Computational and Communication Paradigms, Sikkim Manipal Institute of Technology, Sikkim, India, February 25 - 28 , 2019

Debotosh Bhattacharjee

1. Presented a paper entitled, “A Transfer-learning Based Deep Learning Framework for Automated Classification of Pap Smear Cervical Images,” at ICMMI 2019 held in Tokyo, Japan from 22-24 March 2019
2. Keynote on “Medical Image Analysis for Computer-Assisted Diagnosis System” at International Conference on Emerging Technologies for Sustainable Development (ICETSD ’19) on March 5-6, 2019 at GCELT, Kolkata, West Bengal, India

Chintan Kr Mandal

1. 1 day seminar on Latex by Department MCA of Techno International New Town, in association with IEEE Young professionals affinity group, Kolkata section, 24th Nov, 2018
2. Seminar on Technical Writing - A TEQIP-III sponsored One Week Faculty Development Programme On Multimedia Processing and Technical Writing (MPTW-2018) 10th -14th September 2018, Organized by Department of Computer Science & Engineering, Loknayak Jai Prakash Institute Of Technology Chapra.
3. “Technical paper writing using LaTeX” in workshop held at Gurukul campus of Institute of Engineering and Management, Saltlake, Kolkata, India, 2nd and 5th June, 2018
4. 5-days workshop on “LATEX and its Application” from 11-15 March 2019, MMMUT Gorakhpur

Chandreyee Chowdhury

1. Delivered two lectures (“Communications in IoT:WiFi” and “Communications in IoT:Bluetooth”) in TEQIP-III sponsored two-day Short Term Training Programme (STTP) on “IoT: Related Technologies and Applications” at RTU, Kota, Rajasthan, 17-18 Sept.,2018.

Anasua Sarkar

1. Deep Computations in Health, Medicinohhälsa, NMT days 2019, 19 March, BMC, Lund University.
2. Mapping of Sequences and Variants, Workshop on Variation Interpretation at Experimental Medical Science Department, Lund University, 2 Jan, 2019.

3. B. Seminar/Workshop/Conference/Symposium Attended

Susmita Ghosh

1. Attended “MIU Annual Workshop on Machine Intelligence and Applications 2019”, Kolkata, March 29, 2019.

Nibaran Das

1. International Conference on Recent Trends in Image Processing & Pattern Recognition RTIP2R-2018, organized by Solapur University, Solapur, Maharashtra on December 20, 2018.
2. Second International Conference on Advanced Computational and Communication Paradigms (ICACCP-2019) during February 25-28 2019 organized by SMIT, Sikkim.

Nandini Mukherjee

1. 47th International Conference on Parallel Processing (ICPP 2018) held at University of Oregon, Eugene, Oregon, USA from 13th August to 16th August 2018.
2. 2018 IEEE SENSORS held in New Delhi between 28th October to 31st October 2018.
3. 20th International Conference on Distributed Computing and Networking (ICDCN 2019) held at IISc, Bangalore from 4th January to 7th January 2019.

Debotosh Bhattacharjee

1. Debotosh Bhattacharjee, Seminar on “Breast Cancer Detection using Thermal Imaging” at Northumbria University, United Kingdom on 30th November 2018

Anasua Sarkar

1. AIML@LU WS: AI & ML Technologies, Lund University, 2019-08-30.
2. LINXS 1st symposium on Integrative Structural Biology, November 19-21, Lund University

3. C. Seminar/Workshop/Conference/Symposium Organized

Ujjwal Maulik

1. Tutorial Chair, 5th Asian Conference on Pattern Recognition (ACPR 2019), Auckland, New Zealand, 26-29 November 2019.
2. Program Chair, “Computational Intelligence for Data Science: Simple to Big Data”, Int. Conf. on Computational Intelligence (ICCI2018), Dec. 10-11, 2018, BIT Measra, Ranchi, India.
3. Program Chair, “Data Science and Machine Learning: Recent Issues and Challenges”, 2nd Int. conf. on Computational and Communication Paradigm, Feb. 25-28, 2019, Sikkim, India.

Nandini Mukherjee

1. Organised 2nd International Workshop on Networking Women In Distributed Computing And Networks

Kamal Sarkar

1. Second International Conference on Advanced Computational and Communication Paradigms, Sikkim Manipal Institute of Technology, Sikkim, India, February 25 - 28 , 2019

Chintan Kr Mandal

1. Workshop on Machine Learning and Data Analytics – March 26 – 28, 2019

Anasua Sarkar

1. A 3-day Workshop on “Machine Learning and Data Analytics”, Department of Computer Science and Engineering, Jadavpur University, 26th - 28th March, 2019, Advisory Committee member.
2. Reviewer for the 2019 IEEE Congress on Evolutionary Computation (IEEE CEC 2019) which will take place in Wellington, New Zealand, June 10-13, 2019.
3. Program committee of ISSIP 2018: 2018 Second International Symposium on Signal and Image Processing, Kolkata.
4. Workshop Organizer in Mapping of Sequences and Variants, Workshop on Variation Interpretation at Experimental Medical Science Department, Lund University, 2 Jan, 2019.

3. D. Orientation Courses/Refresher Courses Attended

Chintan Kr Mandal

1. Orientation (UGC HRDC, Calcutta University)

Anasua Sarkar

1. Perspective on Learning pedagogical course, Faculty of Medicine Centre for Teaching and Learning, Lund University, May, 2019, Two weeks of full time studies

4. A. Books/Monographs etc. Published:

1. Nandini Mukherjee, Sarmistha Neogy and Samiran Chattopadhyay, *Big Data in ehealthcare: Challenges and Perspectives*, CRC Press, January 2019

4. B. Book Chapters:

1. A. Datta, S. Ghosh and A. Ghosh, “Hyperspectral Remote Sensing Images and Supervised Feature Extraction,” in *Cloud Computing for Geospatial Big Data Analytics*, (Eds.H. Das, R. K. Barik, H. Dubey, D. S. Roy), pp. 265-289, 2019, Springer
2. M. Ghosh, S. Malakar, S. Bhowmik, R. Sarkar, M. Nasipuri, “Feature Selection for Handwritten Word Recognition Using Memetic Algorithm,” in *Advances in Intelligent Computing*, Springer, pp. 103–124, 2019.
3. Arijit Das, Diganta Saha (2018), “Improvement of Electronic Governance and Mobile Governance in Multilingual Countries with Digital Etymology Using Sanskrit Grammar”, ©Springer Nature Singapore (P) Ltd. 2018 (Editors: JK Mandal and D Sinha) *Communications in Computer and Information Science* Volume No. :CCIS 836, pp. 523–530, 2018.https://doi.org/10.1007/978-981-13-1343-1_44.
4. H Roy, **D Bhattacharjee**, “Heterogeneous Face Matching Using Robust Binary Pattern of Local Quotient: RBPLQ,” *Advanced Computing and Systems for Security*, pp. 159-173, *Advanced Computing and Systems for Security: Volume Four*, Springer, 2019.
5. K Dutta, **D Bhattacharjee**, **M Nasipuri**, A Poddar, “3D Face Recognition Based on Volumetric Representation of Range Image,” *Advanced Computing and Systems for Security*, pp. 175-189, *Advanced Computing and Systems for Security: Volume Four*, Springer, 2019
6. S Pramanik, D Banik, **D Bhattacharjee**, **M Nasipuri**, “A Computer-Aided Hybrid Framework for Early Diagnosis of Breast Cancer,” *Advanced Computing and Systems for Security*, pp. 111-124, *Advanced Computing and Systems for Security: Volume Four*, Springer, 2019
7. Ayan Seal, **Debotosh Bhattacharjee**, **Mita Nasipuri**, Dipak Kumar Basu, “Thermal Human Face Recognition for Biometric Security System”, *Computer Vision: Concepts, Methodologies, Tools, and Applications*, 1838-1863, 2018.

8. Asish Bera, **Debotosh Bhattacharjee**, **Mita Nasipuri**, “Hand Biometric Verification with Hand Image-Based CAPTCHA”, *Advanced Computing and Systems for Security*, 3-18, 2018.
9. Hiranmoy Roy, **Debotosh Bhattacharjee**, “Heterogeneous Face Matching Using ZigZag Pattern of Local Extremum Logarithm Difference: ZZPLELD”, *Advanced Computing and Systems for Security*, 121-135, 2018.
10. Kaushik Roy, ChayanHalder, **Anasua Sarkar***, Jaya Paul, Offline Writer Verification Based on Bangla Handwritten character using enhanced textual feature, *Hybrid Intelligent Techniques for Pattern Analysis and Understanding*, Chapman and Hall/CRC Press, New York (ISBN: 978-1-4987-69358), pages 22, 2018, Chapter 1, eBook ISBN: 9781498769372.
11. **Anasua Sarkar***, Subhasish Das, Rajib Das, KalyanMahata, “Watershed Image Analysis using PSO-CA hybrid approach, Hybrid Intelligent Techniques” for *Pattern Analysis and Understanding*, Chapman and Hall/CRC Press, New York (ISBN: 978-1-4987-69358), 2018, Chapter 10, pages 18, eBook ISBN: 9781498769372.
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91. Sunanda Bose, Debangana Sarkar and **Nandini Mukherjee**, “A Framework for Heterogeneous Resource Allocation in Sensor-Cloud Environment”, *Wireless Personal Communication Volume 108*: 19, 2019,https://doi.org/10.1007/s11277-019-06383-1
92. Tanusree Duttaa, Debdulal Das, Siddhartha Banerjee, **Sanjoy Kumar Saha**, Shubhabrata Datta, “An automated morphological classification of ferrite-martensite dual-phase microstructures,” *Measurement Measurement*, Vol. 137-595-603,2019
93. Aniruddha Sinha, Dibyendu Roy, Rikayan Chaki, Bikram Kumar De, **Sanjoy Kumar Saha** “Readability Analysis based on Cognitive Assessment using Physiological Sensing” *IEEE Sensors Journal*, Vol.19(18)- 8127 – 8135, 2019
94. Aritra Mukherjee, Satyaki Chakraborty, **Sanjoy Kumar Saha** , “Detection of loop closure in SLAM: A DeconvNet based approach,” *Applied Soft Computing* Vol. 80-650-656, 2019
95. Siddhartha Banerjee, Pravash Chandra Chakraborti, **Sanjoy Kumar Saha** , “An automated methodology for grain segmentation and grain size measurement from optical micrographs” *Measurement* 2019.

4. F. Articles Published in International Conferences:

1. M Jajoo, N Chakraborty, AF Mollah, S Basu, **R Sarkar**, “Script Identification from Camera-Captured Multi-script Scene Text Components”, *Recent Developments in Machine Learning and Data Analytics*, 159-166, 2018.
2. I Dutta, N Chakraborty, AF Mollah, S Basu, **R Sarkar**, “ Multi-lingual Text Localization from Camera Captured Images Based on Foreground Homogeneity Analysis,” *Recent Developments in Machine Learning and Data Analytics*, 149-158, 2018
3. **S. Basu**, P. Saha, E. Baczynska, N.Das, I, Saha, P. Rakshit, M. Roszkowska, J. Wlodarczyk, “Segmentation and assessment of structural plasticity of hippocampal dendritic spines from 3D confocal light microscopy”, in *SPIE Medical Imaging*, 2018.
4. B Barai, D Das, N Das, **S Basu**, M Nasipuri, “Closed-Set Text-Independent Automatic Speaker Recognition System Using VQ/GMM,” *Intelligent Engineering Informatics*, 337-346, 2018.
5. K Sengupta, S Saha, P Chatterjee, **M Kundu**, **M Nasipuri**, **S Basu**, “Ranked Gene Ontology Based Protein Function Prediction by Analysis of Protein–Protein Interactions,” *Information and Decision Sciences*, 419-427, 2018
6. P Rakshit, **N Das**, **M Nasipuri**, **S Basu**, “Hemodynamic Analysis on Human Cerebrovascular Phantoms with and Without Aneurysm,” *Proceedings of the International Conference on Computing and Communication Systems*, 2018
7. P Rakshit, **N Das**, **M Nasipuri**, **S Basu**, “A Qualitative Hemodynamic Analysis on Human Cerebrovascular Phantom,” *Progress in Advanced Computing and Intelligent Engineering*, 219-229, 2018.
8. I Guha, **N Das**, P Rakshit, **M Nasipuri**, PK Saha, **S Basu**, “Design of Cerebrovascular Phantoms Using Fuzzy Distance Transform-based Geodesic Paths,” *Progress in Intelligent Computing Techniques: Theory, Practice, and Applications*, 2018
9. B. K. Ray, O. Ghosh, S.Bhattacharjee, **S. Roy** and S. Khatua, “OCPDA: A novel approach towards detection of overloaded cloud providers in a federated environment,” *2018 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, Indore, India, 16-19 December 2018, pp. 1-6.doi: 10.1109/ANTS.2018.8710148
10. A. Ray, S. Mallick, S. Mondal, S. Paul, C. Chowdhury and **S. Roy**, “A Framework for Mobile Crowd Sensing and Computing based Systems,” *2018 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, Indore, India, 16-19 December 2018, pp. 1-6.doi: 10.1109/ANTS.2018.8710083
11. Priyanka Saha, **Sarmistha Neogy**, “Predictive Data Analytics in Healthcare”, Accepted for publication in *IEEE Proceedings of 2019 International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ECEIC)*
12. Kritika Kumari, Sayantani Saha, **Sarmistha Neogy**, “Cost Based Model for Secure Health Care Data Retrieval”, *Sixth International Symposium on Security in Computing and Communications (SSCC'18) CCIS*, Springer, Vol. 969, pp. 67 – 75
13. Gaurav Mitra, Souradeep Barua, Srijan Chattopadhyay, Sukalyan Sen, **Sarmistha Neogy**, “Accessing Data in Healthcare Application”, *Sixth International Symposium on Security in Computing and Communications (SSCC'18) CCIS*, Springer, Vol. 969, pp. 301 – 312
14. Nilagnik Chakraborty, Amit Chakraborty, Anirban Dan and **Sarmistha Neogy**, “Effect of Drop Out and Batch Normalization in Siamese Network for Face Recognition”, Accepted for publication in *AISC (Springer) Proceedings of International Conference on Innovative Computing and Communication (ICICC-2019)*

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20. M. Ghosh, S. K. Bera, R. Guha, **R. Sarkar**, "Contrast Enhancement of Degraded Document Image using Partitioning based Genetic Algorithm", *International Conference on Emerging Technologies for Sustainable Development (ICETSD '19)*, pp. 431-435, March 5-6, 2019, Kolkata, India.
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41. A. Nandy, J. Saha, **C. Chowdhury**, K.P.D. Singh (2019) “Detailed Human Activity Recognition using Wearable Sensor and Smartphones”, *OPTRONIX 2019*, March 18-20, 2019, to be published in *IEEE Proceedings*.
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44. M. N. Anjum, **C. Chowdhury**, S. Neogy (2018) "Assisting Vehicles Using Cyber-Physical Systems." In: Satapathy S., Tavares J., Bhateja V., Mohanty J. (eds) *Information and Decision Sciences. Advances in Intelligent Systems and Computing*, vol 701. Springer, pp. 399-408 ISBN: 978-981-10-7562-9, April 2018.
45. Chhanda Roy, **Chitrita Chaudhuri**, "Case Based Modelling of Answer Points to Expedite Semi-Automated Evaluation of Subjective Papers", *2018 IEEE 8th International Advance Computing Conference (IACC)*, December 2018, pp. 85-90. <https://ieeexplore.ieee.org/document/8692133>
46. Ayan Chaudhuri, Mahamuda Sultana, Diganta Sengupta, **Chitrita Chaudhuri**, Atal Chaudhuri, "A Reversible Approach to Two's Complement Addition using a Novel Reversible TCG Gate and its 4 Dot 2 Electron QCA Architecture", *Microsystem Technologies*, Springer, vol. 25, pp. 1965-1975, July 2018. <https://link.springer.com/article/10.1007/s00542-018-4042-8>
47. Ananya Bose*, **Ujjwal Maulik**, **Anasua Sarkar**, "Lesion Segmentation Using Entropy Based Membership", *2018 2nd International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech)*, Kolkata, 2018, pp. 1-4, doi: 10.1109/IEMENTECH.2018.8465342, Kolkata, June, 2018, Electronic ISBN: 978-1-5386-5550-4, Print on Demand(PoD) ISBN: 978-1-5386-5551-1.
48. Jaya Paul*, **Anasua Sarkar**, "Handwritten Bangla Numeral Recognition using Convolutional Neural Networks," *2018 2nd International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech)*, Kolkata, 2018, pp. 1-4, doi: 10.1109/IEMENTECH.2018.8465296, June, 2018, Electronic ISBN: 978-1-5386-5550-4, Print on Demand(PoD) ISBN: 978-1-5386-5551-1.
49. Kalyan Mahata*, **Anasua Sarkar**, Rajib Das, Subhasis Das, "Land Use Land Cover Classification by applying Ensemble Approaches on Multi Temporal Remote Sensing Images", *3rd International Conference on Research and Modern Innovations In Engineering & Technology (ICRMIE-2019)*, 30th - 31st January, 2019.
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51. Sarkar R., Barman D., **Chowdhury N.** "A Cooperative Co-evolutionary Genetic Algorithm for Multi-Robot Path Planning Having Multiple Targets". In *Advances in Intelligent Systems and Computing*, vol 999, pp. 727-740. Springer, Singapore. Print ISBN 978-981-13-9041-8, Online ISBN 978-981-13-9042-5
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53. M. Dey, S. Mandi, **D. Das**. 2018. "Summarization of Table Citations from Text". In *ACL indexed Proceedings of 15th International Conference on Natural Language Processing (ICON 2018)*, pp. 35-42, Patiala, India
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56. M. Dey, A. Mondal and **D. Das**. 2018. "How to Analyze the Overall Performance of a Student: Strong or Weak?" *5th IEEE International Congress on Information Science and Technology CiSt'18*, pp. 374-379
57. A. Mondal, **D. Das**, E. Cambria and S. Bandyopadhyay. 2018. "WME 3.0: An Enhanced and Validated version of a Lexicon for Medical Concepts". In the *proceedings of 11th Global WordNet Conference (GWC-2018)*, pp. 10-16, Singapore

Annual Report 2018-19

58. S. Mondal, S. Mahata, **D. Das**. 2018. "Preparing Bengali-English Code-Mixed Corpus for Sentiment Analysis of Indian Languages". *ALR, Workshop on Asian Language Resources, LREC 2018*, pp. 57-64.
59. S. K. Mahata, S. Makhija, A. Agnihotri and **D. Das**. 2018. "Analyzing Code Switching Rules for English Hindi Code Mixed Text". *IEMGraph 2018*. pp.57-64, Springer
60. P. Maitra and **D. Das**. 2018. "Employing Cross Genre Unstructured Texts to Extract Entities in Adapting Sister Domains". *IEMGraph 2018*. Springer
61. Ayan Bandyopadhyay, Linda Achilles, Thomas Mandl, Mandar Mitra and **Sanjoy Kumar Saha**, "Identification of Depression Strength for Users of Online Platforms: A Comparison of Text Analysis Approaches", *LWDA 2019 workshop on Information Retrieval*, 2019
62. Rahul Gavas, Debatri Chatterjee, Aniruddha Sinha and **Sanjoy Kumar Saha**, "Effect of Cognitive Load on a Random Sequence Generation Task", *IEEE Region 10 Symposium*, 2019
63. Aneek Roy, Nimagna Biswas, **Sanjay Saha** and Bhabatosh Chanda, "Classification of Moving Crowd Based on Motion Pattern," *IEEE Region 10 Symposium*, 2019
64. Mukherjee N., Paul, G. and **Saha, S.K.**, "A novel position concealment audio steganography in insensible frequency" *5th International Conference on Computational Intelligence in Data Mining*, 2018
65. Rajib Sarkar, Saikat Dutta, Aneek Roy, and **Sanjoy Kumar Saha**, "Emotion based categorization of music using low level features and agglomerative clustering," *National Conference on Computer Vision, Pattern Recognition, Image Processing, and Graphics*, 2018-506-516
66. Aritra Mukherjee, Soumik Sarkar, **Sanjoy Kumar Saha**, "Real Time 3D Object Detection from Stereo Image Based on Semantic Clustering of Disparity Map" *4th Int. Conf. on Next Generation Computing*, 2018
67. Debatri Chatterjee, Anirban Chowdhury, Aniruddha Sinha, **Sanjoy Kumar Saha**, "Assessment of Cognitive Load and Confidence Level using Low Resolution EEG device," *IJCAI workshop (CompPsy)*, 2018.
68. P. Mukhopadhyay, H. S. Roy and **N. Mukherjee**, "E-healthcare delivery solution," *2019 11th International Conference on Communication Systems & Networks (COMSNETS)*, Bengaluru, India, January 2019, pp. 595-600. doi: 10.1109/COMSNETS.2019.8711429
69. A. Gupta, A. Nag and **N. Mukherjee**, "Approach for Uncertainty Reduction in Sensors of Remote Health," *2018 IEEE SENSORS*, New Delhi, October 2018, pp. 1-4. doi: 10.1109/ICSENS.2018.8589721
70. Atreya Bandyopadhyay and **Nandini Mukherjee**, "An Approach to Predict Desktop Uptime for Job Allocation in Ad-Hoc Cloud," *Proceedings of the 47th International Conference on Parallel Processing Companion*, 978-1-4503-6523-9, Eugene, Oregon, USA, pp. 1-7, 2018, 10.1145/3229710.3229743, ACM
71. K. Ray, S. Bose and **N. Mukherjee**, "A Load Balancing Approach to Resource Provisioning in Cloud Infrastructure with a Grouping Genetic Algorithm," *2018 International Conference on Current Trends towards Converging Technologies (ICCTCT)*, Coimbatore, 2018, pp. 1-6. doi: 10.1109/ICCTCT.2018.8550885
72. Aniruddha Sinha, **Sanjoy Kumar Saha**, Anupam Basu, "Determining Perceptual Similarity Among Readers Based on Eyegaze Dynamics" *6th International Doctoral Symposium on Applied Computation and Security Systems* 2019

5. Collaborative Programmes:

Ujjwal Maulik

1. Visited International Center for Theoretical Physics (ICTP), Trieste, Italy as Senior Associate. Collaborative Research Area: Computational Biology
2. Visited Grenoble INP, France Collaborative Research Area: Energy Management in Smart Grid and Housing

Subhadip Basu

1. Honorary Research Scientist, Department of Electrical and Computer Engineering, University of Iowa
2. DAAD Visiting Scientist, Hannover Medical School, Germany

Anasua Sarkar

1. Working research at Experimental Medical Science Department, Lund University on Cancer epigenetics.

Sudip Kumar Naskar

1. Saarland University, Saarbrücken, Germany
2. Universitat Politècnica de València, Valencia, Spain
3. University of Minnesota Duluth, Duluth, MN, USA
4. National Polytechnic Institute (IPN), Mexico
5. Indian Statistical Institute, Kolkata, India
6. Indian Institute of Technology, Patna, India
7. Indian Institute of Technology (ISM), Dhanbad, India
8. West Bengal State University, Kolkata, India

Debotosh Bhattacharjee

1. One collaborative project entitled “Development of a computer-assisted diagnosis system for segmenting and detecting abnormalities and disease diagnosis,” in collaboration with Medical University of Vienna, Austria.

Nandini Mukherjee

1. Lead investigator of a collaborative project titled “Remote Health: A Framework for Healthcare Services using Mobile and Sensor-Cloud Technologies” in which six institutions are participating and Jadavpur University is playing the lead role. The project is funded by ITRA, Media Lab Asia.

6. Major Achievements:

Ujjwal Maulik

1. Elected Fellow, International Association of Pattern Recognition (FIAPR), 2018.

Subhadip Basu

1. Received **DAAD Fellowship** to visit Hannover Medical School, Germany during May-June, 2018
2. Received an honorary position as **Research Scientist** from Department of Electrical and Computer Engineering, University of Iowa, USA (2016-2019).
3. Received **Research Award from UGC**, Govt. of India for 2016-2018

Anasua Sarkar

1. Obtained Postdoctoral Fellowship from Lund University for pursuing postdoctoral research from September, 2018

Debtosh Bhattacharjee

1. gLink fellowship to visit Northumbria University for one month

A. Post-Doctoral Fellowship:

Anasua Sarkar

1. Post-Doctoral Fellowship at Experimental Medical Science Department, Lund University on Cancer epigenetics, September, 2018-August 2019.

Annual Report 2018-19

CONSTRUCTION ENGINEERING
(SALT LAKE CAMPUS)

Phone : +91-33-2335-5211
Int. : 6116
H.O.D. : Prof. Subhajit Saraswati
E-Mail : hodconstruction@jadavpuruniversity.in

1. A. Course Offered:

Name of the Course : Bachelor of Construction Engineering
Duration of course : 4 Years
No of students enrolled : 50

Name of the course : Master of Construction Engineering
(Structural Repair and Retrofit Engineering)

Duration of course : 3 Years
No of students enrolled : 18

1. B. Number of Faculty Members : 08

2. A. Area of Research Activities (Broad Areas):

Structural Health Monitoring with Static & Dynamic Response
Non-destructive Evaluation, Repair and Retrofit including Corrosion
Highway Engineering – Evaluation & Pavement Design
Concrete Technology – High Performance Concrete, Geo-Polymer Concrete
Geotechnical Investigation with DMT/SDMT using Penetro-meter
Earthquake Engineering and Disaster Mitigation

2. B. Major Research Project : Including under RUSA - II

- Structural Health Monitoring of Buildings & Bridges from field test data of various NDT, Static and Dynamic Responses.
- Sustainable Manufacturing of Low Cost Energy Efficient Earthquake Resistant Affordable Housing
- Characterization of Sub-grade Resilient modulus with variable moisture & index properties of soil in the state of West Bengal to assess pavement failure.
- Studies on Environmental Threat due to Coastal Erosion and Possible Mitigation in Area under Digha-Shankarpur Development Authority, West Bengal.
- Development of a Low-Cost Minimal Invasive Corrosion Repair Technique in Reinforced Concrete Structures adopting Advance Material System.

3. A. Invited Lectures Delivered / Sessions Chaired: (Name of the Teacher / Type of Participants / Name of the Seminar/Conference/Place /Duration)

1. **Prof. Kaushik Bandyopadhyay** chaired a technical session in the 16th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, **16 ARC** held during October, 14 – 18, 2019 at *Taipei International Convention Center (TICC)*, Taipei, Taiwan.
2. Prof. D. Bandyopadhyay was an Invited Speaker on “Structural Health Monitoring of Bridges” and also participated in a Talk Show on “Recent Challenges in Concrete Construction”, held on 27th September, 2019 at J W Marriot, Kolkata, organized by ACC Cement & Indian Concrete Institute, Kolkata.

Annual Report 2018-19

3. **Prof. D. Bandyopadhyay** was an Invited Speaker on “Experimental Study on Prefabricated Concrete Sandwich Panel Building System” in the National Seminar on “CONCRETE 2019: Pre-cast Concrete For Sustainable Construction” on 19th September, 2019 organized by Indian Concrete Institute at New Delhi Centre.
 4. **Prof. P.P. Biswas** was an invited speaker at orientation program of Junior Engineers of Airport authority of India at CGO complex on 3rd September 2019 on ‘Disaster Management for Civil Engineers.
 5. Prof. P.P. Biswas was an Invited speaker on ‘**Design Rural Rigid Pavement**’ in the training program on “Rural Engineering Issues” for Nirman Sahayaks from Gram Panchayats & for Block Level Junior Engineers organised by the School of Water Resource Engineering (SWRE) of Jadavpur University, 26-29th August 2019.
 6. **Prof. D. Bandyopadhyay** was an Invited Speaker on “Advancement of Fly Ash Utilization in Concrete” at ASH MEET, Mejia Thermal Power Station, DVC, Bankura on 7th July, 2019.
 7. **Prof. D. Bandyopadhyay** was an Invited Speaker on “Performance Enhancement of Concrete by Chemical Admixtures and Additives” National Seminar On “Role of Construction Chemicals/Additives to Enhance Strength and Durability of Construction and Rehabilitation Works” organised by Indian Building Congress on 6th July, 2019 at R N Mukherjee Hall, IE(I), Kolkata.
 8. **Prof. D. Bandyopadhyay** was an invited speaker on “Advances in Concrete Technology” at the Annual Meet of Architects & Technocrats of Bihar, 17.06.19 at Hotel Mourya, Patna organized by Dalmia Cement.
 9. **Prof. Kaushik Bandyopadhyay** chaired a technical session in the 2nd International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE2019) held during June, 16 – 20, 2019 in Chicago, USA.
 10. Prof. P.P. Biswas was an Invited speaker at HRDC ,Jadavpur University on 12th February 2019 on ‘ Strategic understanding on road safety issues during Urbanization.
 11. Prof. D. Bandyopadhyay delivered Invited several lectures in the Workshop on “Earthquake Disaster Mitigation (EQDM-2019)”, held at NIT, Silchar, January 16-20, 2019.
 12. Prof. Debasish Bandyopadhyay delivered an invited lecture on “Structural Health Monitoring of Infra-structural System by Inverse Dynamic Approach” on Concrete Day Celebration of Indian Concrete Institute, Kolkata, October 2018.
 13. Prof. S. Saraswati delivered an invited lecture on “Health Monitoring of bridges and related issues” during Indian Concrete Institute Concrete Day celebration at Kolkata, October 2018.
- 3. B. Seminar/Workshop/Conference/Symposium Attended :**
1. **Prof. D. Bandyopadhyay** attended and participated the Conference on “Concrete 2019: Precast Concrete for Sustainable Construction” at New Delhi in 19th September 2019.
 2. **Prof. S. Saraswati** attended the Conference on “Concrete 2019: Precast Concrete for Sustainable Construction”, New Delhi, 19th September 2019.
 3. **Prof. D. Bandyopadhyay** has participated in the 7th International conference on ‘Experimental Vibration Analysis for Civil Engineering Structure, EVACES 2019, 5-8 September,2019 at China.
 4. **Prof. P.P. Biswas** attended International Airfield and Highway Pavement Conference at Chicago , USA (21st-24th July 2019) organized by the American Society of Civil Engineers.
 5. **Prof. P.P. Biswas** visited the University of Texas at San Antonio from 29th July -2nd August, 2019.
 6. **Prof. K. Bandyopadhyay** participated in the 2nd International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE2019), June, 16 – 20, 2019 in Chicago, USA.
 7. **Prof. K. Bandyopadhyay** participated in the 16th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, 16ARC, 14–18 October, , 2019 at Taipei International Convention Center, Taipei, Taiwan.

Annual Report 2018-19

8. **Prof. Kaushik Bandyopadhyay** and **Prof. S. Saraswati** attended the National Workshop on Geotechnical Site Characterisation and In-situ testing (part of TC102 activity) jointly with the Indian Institute of Science, Bangalore in Bangalore in during 26-27 April, 2019 in Bangalore.
 9. **Prof. S. Saraswati** attended the International Conference “Innovative World of Concrete” held in Bengaluru, India in September 2018.
 10. **Prof. D. Bandyopadhyay** attended the International Conference “Innovative World of Concrete” organised by Indian Concrete Institute held at Bengaluru, India in 19-22 September 2018.
- 3. C. Seminar/Workshop/Conference/Symposium Organized :**
1. **Prof. D. Bandyopadhyay** and Department of Construction Engineering, Jadavpur University have organized a Masons Skill Building Workshop on 31.08.2019 on “Good Construction Practice of Residential Buildings” in association with Ultratech Cement and Indian Concrete Institute.
 2. **Prof. Kaushik Bandyopadhyay** was a member of the Organizing committee of National Workshop on Geotechnical Site Characterisation and In-situ testing (part of TC102 activity) jointly with the Indian Institute of Science, Bangalore in Bangalore in during 26-27 April, 2019 in Bangalore.
 3. **Prof. D. Bandyopadhyay** is one of the member of the Advisory Committee of the organizing of the International Conference of “Structural Engineering Convention SEC-2018”, to be held from 19th-21st December, 2018, at the department of Civil Engineering, Jadavpur University.
 4. **Prof. S. Saraswati & Prof. D. Bandyopadhyay** were the members of the organizing committee of the International conference of “Innovative World of Concrete ICI-IWC-2018”, on 19-22 September, 2018 at NIMHANS Convension Centre, Bangalore, organized by Indian Concrete Institute.
- 4. A Books/Monographs etc. Published:**
1. **Prof. S. Saraswati** is a member of technical committee of Handbook on Concrete Durability, published by Indian Concrete Institute.
 2. **Dr. P. Ghosh** published a book on *Story of steel structure*
- 4. B. Articles Published in Journals/ Conference proceedings in the Year 2018-19**
1. J S Ali and D Bandyopadhyay, “Experimental Validation of the Proposed Technique for Condition Monitoring of structure with Limited Noisy Modal Data” in International Journal of Structural Integrity (2019), August, 2019, ISSN: 1757-9864, DOI- IJSI-02-2019-0013.
 2. Jafar Sadak Ali and **Debasish Bandyopadhyay**, “Numerical and Experimental Validation of the Proposed SHM Technique form Limited Static Responses Adopting Equation Error Approach”, *Journal of Emerging Technologies and Innovative Research (JETIR)*, 2019, ISSN: 2349 5162.
 3. Jafar Sadak Ali and **Debasish Bandyopadhyay**, “Experimental Validation of the Proposed SHM Technique form Limited Extracted Dynamic Responses of a Steel Beam Adopting inverse Dynamic Approach”, *International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)*, 2019, e-ISSN: 2455-2585.
 4. J S Ali and **D Bandyopadhyay** “Condition Monitoring of Structures using Limited Noisy Data of Modal Slope and Curvature of Mode Shapes”, International **Journal** of Structural Integrity, August, 2019, **ISSN: 1757-9864**, DOI- IJSI-02-2019-0014.
 5. **Dr. ParthaPratim Biswas** (2018) “A tragedy of Bridge Management in West Bengal” published in *Economic and Political Weekly*, November3, 2018, Vol L.III, Issue 44.
 6. **P. Ghosh & A.A. Laskar**, “Sulphuric acid durability Studies of concrete with Portland cement (CEM-I), Portland Composite cement of different types (CEM-II/A-M &CEM-II/B-M) & partial replacement of Portland cement with different types of pozzolonic materials” *International Research Journal of Engineering and Technology (IRJET)*, Volume: 06 Issue: 04 | Apr. 2019

Annual Report 2018-19

7. **P. Ghosh** & Abdullah Ahamed Laskar “ Response of different types of cement & partial replacement of Portland cement with Fly Ash & GGBC in concrete against Phosphoric Acid Attack” *International Journal of Emerging Technology and Advanced Engineering*, Volume -9, Issue -5, May 2019
8. **P. Ghosh** & Abdullah Ahamed Laskar, “Influence of different type of cement ,Pozzolonic materials & Anti carbonation surface coating of concrete in carbonation of concrete.” *International Journal of Analytical Reviews*, Volume -6, Issue -2, May 2019
9. **P. Ghosh** & Abdullah Ahamed Laskar “Influence of different type of cement & supplementary cementitious material Fly ash & GGBC in concrete carbonation.” *International Journal of Research in Engineering Application & Management*, Volume -5, Issue -2, May 2019
10. **P. Ghosh** & Abdullah Ahamed Laskar, “Effect of different types of cement in concrete chloride permeability” *International Journal for research in applied science & Engineering Technology*, Volume -1, Issue -5, May 2019
11. **P. Ghosh** & Abdullah Ahamed Laskar, “Sulphuric Acid durability studies of concrete with Portland cement , Portland composite cement of different types & partial replacement portland cement with different types of Pozzolonic materials” *International Research Journal of Engineering & Technology*, Volume -6, Issue -4, April 2019.
12. **P. Ghosh** & Abdullah Ahamed Laskar “Influence of different type of cement & Pozzolonic materials of chloride permeability of concrete.” **Journal** of Emerging Technology and Innovative research , Volume -6, Issue -5, May 2019.
13. **P. Ghosh** & Abdullah Ahamed Laskar, “Influence of different type of cement & Mitigating effect of Pozzolonic materials & Lithium Based salt in ASR of Concrete” *American Journal of Emerging research (AJER)*, Volume -8, Issue -9, 2019.P p 98-103.
14. **P. Ghosh** & Abdullah Ahamed Laskar “Comparative durability studies of concrete by using Electrical Resistivity technique & Rapid Chloride Permeability Technique” *Journal of Emerging research application*, Volume -9, Issue -9(series-I),September 2019, PP 44-49.
15. **P. Ghosh** , Bikrom Paul, Kushal Ghosh, “Mechanical Properties and Microstructural Features using Stone as a Partial Replacement of Sand”, *International Journal of Engineering and Advanced Technology merging research application*, Volume -9, Issue -9(series-I),Sept. 2019, PP 44-49.
16. **P. Ghosh** & Abdullah Ahamed Laskar, “Influence of different form of Lithium Barium Sulphate in migration of ASR expansion in concrete”, *IOSR Journal of Mechanical and Civil Engineering* , Volume -16, Issue -5(series-I), September-October 2019, P p 18-23..
17. **P. Ghosh** & P. Roychowdhury, “Innovation Experimentation on Hollow Cylindrical Shells of Reinforced concrete under Axial Compression load.” ISSN: 2277-3878, Volume 8, Issue 3, September -2019.
18. **P. Ghosh** & Abdullah Ahamed Laskar and Sagar Mondal, “An experimental study on RCC Chimney Shell surface damage problem of slip form concrete and its preventive measure”, *International Journal of Emerging Technology and advance Engineering*”, Vol -09, Issue -7, July 2019 PP 53-62.
19. **K. Bandyopadhyay**, P. Gangopadhyay, **S. Saraswati** & S. Bhattacharya, “Stability Analysis of a Fly ash Embankment on Soft Soil” in the 16th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, 16 ARC held during October, 14 – 18, 2019 at Taipei International Convention Center (TICC), Taipei, Taiwan.
20. **D. Bandyopadhyay** & J S Ali (2017), “Modal Strain Energy Based Structural Parameter Identification from Limited Vibration Measurement”, in the 7th International conference on ‘Experimental Vibration Analysis for Civil Engineering Structure, EVACES 2019, at China.
21. **P.P.Biswas**, **M.K.Sahis**, A. Sengupta, G.C.Mandal, “Prediction of remaining life of pavement by Surface deflection using Odemark’s approach” ASCE Conference attend on International Airfield and Highway Pavement Conference at Chicago , USA (21st-24th July 2019)

Annual Report 2018-19

22. **Prof. Kaushik Bandyopadhyay** presented a paper entitled, “Spirodela Polyrhiza: An Efficient Hyper accumulator of Nickel at Low Concentration” in the 2nd International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE2019) held during June, 16 – 20, 2019 in Chicago, USA.
23. **Partha Pratim Biswas, Manoj Kumar Sahis, Agnimitra Senguta**, “Determination of Compacted Dense Sand Layer Thickness on Loose Sand using Odemark’s Method for Design of Shallow Foundation” in Indian Geotechnical Conference-2018, Bangalore. 13-15th December 2018, IISC Beangaluru.
24. **P.Ghosh** et al, “Use of Brick Klin Dust as a supplementary material for fine aggregate in concrete”, COAST-2019, NIT Silchar.
25. **P.Ghosh** et al, “A Brief Review of the Effect of Mineral admixtures on the Properties of Alkali Activated Composites”, COAST-2019, NIT Silchar.
26. **P.Ghosh** et al, “Replacement of Sand with Stone Dust as a Fine Aggregate in Concrete”, COAST-2019, NIT Silchar.
27. Agamoni Das^{1*}, Jafar Sadak Ali² & **Debasish Bandyopadhyay**³, “Numerical Study on Base Isolation System for Regular & Irregular Buildings” in the International conference of “Structural Engineering Convention” SEC 2018, 19-21 December, Jadavpur University, Kolkata, pp. 144, ISBN 978-93-83660-46-9.
28. Madhumanti Ghose¹, Jafar Sadak Ali² & **Debasish Bandyopadhyay**³, “Compareative Study of Steel Concrete Composite System of High Rise Tapered Building”, in the Intl conference “Structural Engineering convention” SEC 2018, 19-21 Dec, Jadavpur University, Kolkata, pp. 56, ISBN 978-93-83660-46-9.
29. Sayantan Bosu Choudhury^{1*}, Susmita Choudhury², Jafar Sadak Ali³, **Debasish Bandyopadhyay**⁴, “Structural Health Monitoring of Corrosion Distressed High Rise RCC Buildings by Correlating Various NDT Results”, in the International Conference of “Structural Engineering Convention” SEC 2018, 19-21 December, Jadavpur University, Kolkata, pp. 155, ISBN 978-93-83660-46-9.

5. Collaborative Programmes:

- Prof. S. Saraswati & Prof. D. Bandyopadhyay of Jadavpur University have organized Training Programs for Engineers of Technip FMC on “Maintaining Quality of Concrete Construction” during July & September, 2019 in collaboration with Indian Concrete Institute, Kolkata Centre.
- Prof. Kaushik Bandyopadhyay is the Chairman of the Technical Committee 102 (TC102, India Section) under the aegis of the International Society for Soil Mechanics & Geotechnical Engineering (ISSMGE, London) during the period from 2017 to 2021.
- Prof. D. Bandyopadhyay of Jadavpur University have acted as a collaborative resource person for mentorship of Jhorhat Institute of Science and Technology under TEQIP-III program of Calcutta University.
- Prof. Kaushik Bandyopadhyay is Member of the Core Committee of the Asian Regional Technical Committee 7 (ATC7) under the aegis of the International Society for Soil Mechanics & Geotechnical Engineering (ISSMGE, London) during the period from 2017 to 2021.

6. Patent

1. **Dr. P. Ghosh** took a Patent on “Technique for different free RCC Chimney shell construction by using Slip – Form Method” September 2019

ELECTRICAL ENGINEERING

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1. A. Courses Offered:

Name of the course	Duration of the course
1. B.E.E.	4 Yrs.
2. B.E.E. (Evening)	5 Yrs.
3. M.E.E.	2 Yrs.
4. M.C.S.E.	2 Yrs.
5. M.E. Illumination Engg.	2 Yrs.
6. Ph.D.	

Control System Section

1. B Number of Faculty Members: 04

2. B. Major Research Projects: (Name of the Project–Funding Agency)

3. Robustness Analysis of AFADEC Control Laws Covering Redundancy Management–Gas Turbine Research Establishment, (DRDO, Ministry of Defense), Bengaluru.
4. Development and Validation of Algorithm for Estimation and Tracking of High Velocity Manoeuvring Targets –Program AD, (DRDO, Ministry of Defense), Hyderabad.

3. A. Invited Lectures Delivered/Sessions Chaired: (Name of the Teacher–Type of Participants–Name of Seminar/ Conference–Place and Duration)

Madhubanti Maitra–Track Chair –“IEEE Applied Signal Processing Conference”–7-9 Dec. 2018, held at Kolkata, India.

Smita Sadhu–Delivered a Talk–”Advanced Control Applied to Various Field of Engineering (ACAVFE 2018)”–Electrical Engineering Department, NIT Durgapur, August 28-Sept. 01, 2018.

4. B. Articles Published/Accepted in Journals (April, 2018 – March, 2019):

International Journals

1. Aritro Dey, Smita Sadhu, Tapan Kumar Ghoshal. “Square Root Quadrature Information Filters for Multiple Sensor Fusion”, *Advances in Intelligent Systems and Computing*, vol 749, 2019 Springer, Cham. DOI: 10.1007/978-3-319-74808-5_46
2. Nilanjan Patra, Smita Sadhu, Tapan Kumar Ghoshal. “Adaptive state estimation for tracking of civilian aircraft,” *IET Science, Measurement & Technology*, Volume: 12, Issue: 6, 2018, pp. 777 - 784, DOI: 10.1049/iet-smt.2017.0529.

International Conferences

3. Sudeshna Dasgupta, Smita Sadhu, and Tapan Kumar Ghoshal. “Disturbance Observers for Nonlinear MIMO Systems-An Alternative Design Approach.” In *2019 53rd Annual Conference on Information Sciences and Systems (CISS)*, 20-22 March 2019, Baltimore, USA, pp. 1-6. IEEE, 2019. DOI: 10.1109/CISS.2019.8693041

Annual Report 2018-19

4. Sudeshna Dasgupta, Smita Sadhu, T. K. Ghoshal, "A Modified Active Anti-Disturbance Control for a Nonlinear CSTR Model", "ASME Dynamic Systems and Control Conference" (DSCC-2018), Atlanta, Georgia, USA, September 30 – October 3, 2018.
5. Spandita Das, Sayantan Chakraborty, Madhubanti Maitra, "Performance Evaluation of 2-Degrees-of-Freedom 2-Periodic Controller: Stabilization of Cart-Inverted Pendulum System, 2018" IEEE "Applied Signal Processing Conference (ASPCON)", 7-9 Dec. 2018. DOI: 10.1109/ASPCON.2018.8748411
6. Tasmita Saha, Nirmal Murmu, Sayantan Chakraborty, Madhubanti Maitra, "Robust Stabilization of Cart Inverted Pendulum System by 2-Rate Controller", 2018 IEEE Applied Signal Processing Conference (ASPCON), 7-9 Dec. 2018. DOI: 10.1109/ASPCON.2018.8748598
7. D. Roy, A. Choudhury, M. Maitra & S. Bhattacharya. "Multi-Robot Virtual Structure Switching and Formation Changing Strategy in an Unknown Occluded Environment", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), December 2018, (pp. 4854-4861).

5. Collaborative Programme:

Madhubanti Maitra

Faculty Mentoring: Linear Control System- for the faculty of Asansole Engineering College.

6. Major Achievements:

Smita Sadhu

1. One doctoral student under the supervision of Prof Smita Sadhu has been awarded Ph.D degree in 2019.
2. One Post Graduate thesis has been awarded under the supervision of Prof Smita Sadhu.

High Voltage Section

1. B. No. of Faculty Members: 06

2. A. Area of Research Activities:

- a) Condition monitoring of large Transformers, Insulators, Lightning Arresters etc.
- b) Power quality event detection and Smart metering.
- c) Computer aided design and optimization of insulation systems.
- d) Numerical field computations.
- e) Signal conditioning in high voltage systems.
- f) Partial discharge measurements and instrumentation.
- g) Identification of transformer insulation failure.

2. B. Major Research Project : (Project–Funding Agency–Sanction Amt.(INR in Lakhs)–Principal/ Co-Principal Investigator–Status)

1. An advanced method for insulation condition monitoring using accelerated dielectric response measurement –DST (GOI) SERB –54 –Dr. Biswendu Chatterjee and Dr. Sovan Dalai–Ongoing
2. FIST-2014–DST (GOI) FIST–180–Dr. Kesab Bhattacharya–Ongoing
3. Local Lightning Prediction and Warning S–Dr. Sovan Dalai–Ongoing
4. Modeling of Space Charge and Partial Discharge in Polymeric Dielectrics for Application in High Voltage Systems–RUSA 2.0, Jadavpur University–5.3–Dr. Sovan Dalai–Ongoing
5. Development of an Advanced Online Technique for Condition Monitoring of Overhead Transmission–Dr. Arpan Kumar Pradhan–Ongoing

3. A. Invited Lectures Delivered/Sessions Chaired : (Name of the Teacher–Type of Participants– Name of the Seminar/ Conference–Date and Venue)

1. Dr. Sovan Dalai –Academicians, Researchers and Graduate Students–One week workshop on “Synchrophasor Measurement Technology for Smart Grid - Present Scenario and Implementation in Indian Power System “, 19th to 23th January,2019–National Institute of Technology, Silchar, Assam, 2019
2. Dr. Sovan Dalai –Academicians, Researchers and Graduate Students–A Workshop on “Renewable Energy” –St.Thomas College of Engineering & Technology, Kolkata, West Bengal, 2019
3. Dr. Biswendu Chatterjee–Academicians, Researchers and Graduate Students–A Workshop on “Renewable Energy”–St.Thomas College of Engineering & Technology, Kolkata, West Bengal, 2019

3.C. Seminar/Workshop/Conference/Symposium Organized: (Name of the Teacher–Name of seminar/ conference–Place –Duration)

1. Sovan Dalai, Biswendu Chatterjee, Arpan Kumar Pradhan (Role: Member of Organizing Committee) –IEEE Conference on Applied Signal Processing (ASPCON)–Department of Electrical Engineering, Jadavpur University, India –December 7-9, 2018

4. B. Articles Published/Accepted in Journals (April, 2018 – March, 2019):

International/National/Peer-reviewed Journals

1. S.Chatterjee, S.Dalai, S.Chakravorti and B.Chatterjee, “Accelerating Moisture Content Sensing of Oil impregnated paper Insulation Using Frequency Modulated Square Wave Excitations”, *IEEE Sensors Letters*, Volume: 03, Issue: 07, pp 01 – 04, 2019.
2. S. Bag, A. K. Pradhan, S. Das, S. Dalai and B. Chatterje, “S-Transform Aided Random Forest Based PD Location Detection Employing Signature of Optical Sensor”, *IEEE Transactions on Power Delivery*, Volume: 34, Issue: 04, pp 1261 – 1268, 2019.
3. S. Chatterjee, A. K. Pradhan, S. Dalai, S. Chakravorti and B. Chatterjee, “A Non-linear Model for Sensing Moisture Content in Transformers at Reduced Time”, *IEEE Sensors Journal*, Volume: 19 , Issue: 12 , pp 4639 – 4646, 2019.
4. N. Haque, S. Dalai, B. Chatterjee and S. Chakravorti, “Studies on the Effects of Moisture and Aging on Charge De-trapping Properties of Oil Impregnated Pressboard based on Isothermal Relaxation Current measurement”, *IET High Voltage*, 2019. (Accepted for publication).
5. S. Dutta, C. M. Banerjee, A. Baral , B. Chatterjee , S. Dalai and S. Chakravorti. “ A Neural Network based methodology to study Effects of Oil Properties on Induction Period Evaluated from Response of Oil-Paper Insulation Employing mineral oil, ester and mixture.” *IET Science, Measurement & Technology*, Volume: 13, Issue: 04 , pp 606 – 613, 2019.
6. S.Deb, N. Ray Choudhury, R. Ghosh, B. Chatterjee, S. Dalai, “ Short Time Modified Hilbert Transform Aided Sparse Representation for Sensing of Overhead Line Insulator Contamination”, *IEEE Sensors Journal*, Volume: 18 , Issue: 19 , pp 8125 – 8132, 2018.
7. S.Chatterjee, S.Dalai, S.Chakravorti and B.Chatterjee, ”Use of Chirp Excitations for Frequency Domain Spectroscopy Measurement of Oil-Paper Insulation”, *IEEE Transactions on Dielectrics and Electrical Insulation*, Vol. 25, Issue: 03, pp 1103-1111, 2018.
8. S. Das, A. K. Pradhan, A. Kedia, S.Dalai, B. Chatterjee and S. Chakravorti, “Diagnosis of Power Quality Events based on Detrended Fluctuation Analysis”, *IEEE Transactions on Industrial Electronics*, Vol. 65, no. 9, pp 7322-7331, Sep. 2018.

6. Major achievements:

Dr. Arpan Kumar Pradhan has been awarded the Humboldt Fellowship to pursue research work at University of Stuttgart, Germany in March, 2019.

Illumination Section

1. B. Number of Faculty Members: 4

2. A. Area of Research Activities:

Light wave communication
Laser application
Road lighting design in Indian context
Façade Lighting
Sports Lighting
Colour mixing with LEDs
Ballast-Igniter-Lamp characteristics
Lamp-life estimation
Development of energy efficient low-cost lighting control system,
Human powered Battery charger for LED based lighting system
Rural lighting system design & development
Daylight integrated artificial lighting
Smart Lighting for interior and exterior

2. B. Major Research Project: (Principal/Co-Principal Investigator–Name of the Project–Funding Agency)

Prof.-Saswati Mazumdar as Principal Investigator–Advanced Vision System for Foggy environment–RUSA 2.0

Prof. Saswati Mazumdar as Principal Investigator and Sri Suddhasatwa Chakraborty as Co-Principal Investigator–‘Experimental studies of free space laser communication link for data and voice transmission in different atmospheric condition’–DRDO

Prof. Biswanath Roy as Principal Investigator–“Design & Development of energy efficient, wireless light controller for daylight integrated artificial lighting system”–RUSA 2.0

Sangita Sahana as Principal Investigator–Energy Efficient Outdoor Lighting Design using Mesopic Photometry–RUSA2.0

3. A. Invited Lectures Delivered/ Session Chaired: (Name of the Teacher–Type of Participants–Name of seminar/conference Place and Duration)

Suddhasatwa Chakraborty–Expert talk–CIE Expert Workshop, Technical University of Berlin–25th May 2018, Berlin, Germany

Suddhasatwa Chakraborty–Invited talk–70th Orientation Course Orientation Programme at UGC-HRD, Salt Lake Campus, Jadavpur University, 01st September 2018–UGC-HRD, Salt Lake Campus, Jadavpur University

Suddhasatwa Chakraborty–Invited Talk–“Human Centric Intelligent lighting, a protocol shift in the field of Illumination Engineering”. One day Workshop on “Energy Conservation Road Map: Present and Future Trends.” Jointly organized by Electrical Engineering Department, Jadavpur University and IEEE Circuits and Systems Society, CAS Chapter, Kolkata Section–Electrical Engineering department Seminar Room, JU December 2018

Suddhasatwa Chakraborty–Special Lecture–on “Human Centric Lighting– a paradigm shift in the field of Illumination Engineering.” at Bureau of Indian Standard (BIS)–Organized by Electro Technical Division-49 of Bureau of Indian Standard (BIS) at National Physical Laboratory, New Delhi, India

Annual Report 2018-19

Suddhasatwa Chakraborty–Invited talk–72nd Orientation Course Orientation Programme at UGC-HRD, Salt Lake Campus, Jadavpur University, 23rd February 2019– UGC-HRD, Salt Lake Campus, Jadavpur University

Sangita Sahana–Invited Talk–“Mesopic Photometry & It’s Application” One day Seminar, Jointly organized by Electrical Engineering Department, Jadavpur University and Indian Society of Lighting Engineers– Electrical Engg Dept, Jadavpur University, October 2018

3. C. Seminar/Workshop/Conference/Symposium Organized:(Name of the Teacher–Name of the Paper Presented–Name of Seminar/Conference–Place and Duration)

Suddhasatwa Chakraborty–“Cutting-edge Perspectives of Intelligent System Development for social cause.” organized by IEEE CIRCUITS & SYSTEMS Society Chapter, Kolkata Section in association with IET(UK) Kolkata Local Network and Electrical Engineering Department, Jadavpur University– Electrical Engineering department Seminar Room, JU on 27th July 2018

Sangita Sahana–“Comparison Of Lamp Performances In Mesopic Photometry System For Area Lighting”–International Conference on Electrical, Electronics, Computer Science & Civil Engineering (ICEECC)–Pailan College of Management & Technology and Pailan Technical Campus, Kolkata

4. B. Articles Published in the Journals (including National / International/ Peer reviewed Journal): (Name of the Teacher–Name of the Articles–Name of the Journal–Date of Publication–Volume)

Prof. Saswati Mazumdar–“Wide-Range, Open-Loop, CCT and Illuminance Control of an LED Lamp Using Two-Component Color Blending,”–*IEEE Transactions on Power Electronics*–2018–vol. 33, no. 11, 2018, pp.9830-9818.

Prof. Saswati Mazumdar–“Design & Development of a Solar Powered, CCT changing R-B-W LED Based Artificial Window”–*Light & Engineering*–2018–Vol. 26, No.4, ISSN 0236-2945, 2018.

Prof. Saswati Mazumdar–“Development of a microcontroller based emergency lighting system with smoke detection and mobile communication facilities”,–*Light & Engineering*–2019–Vol. 27, No. 1, pp 46-50, ISSN 0236-2945, 2019.

Prof. Saswati Mazumdar–“A Low-Cost, Wide-Range, CCT-Tunable, Variable-Illuminance LED Lighting System”–*LEUKOS*–2019–DOI: 10.1080/15502724.2018.1541747, pp. 1–20, February 2019.

Suddhasatwa Chakraborty and Prof. Saswati Mazumdar –“ROAD CLASSIFICATION BASED ENERGY EFFICIENT DESIGN AND ITS VALIDATION FOR INDIAN ROADS.”–*Light and Engineering*–2018 Vol. 26, No. 2, pp. 110–121, 2018 *Svetotekhnika* No. 3, 2018, pp. 60–67

Suddhasatwa Chakraborty–“Laboratory based EEG study to investigate the influence of light sources on brain processing for detection of object designed with metal halide and high-pressure sodium lamp.”–*Light and Visual Environment/Journal of Science and Technology in Lighting*–2018–vol. 41, pp. 30-39, March 26, 2018

5. Collaborative Programme:

Visibility: Contrast threshold with marking light in road lighting,” With Technical University of Berlin, Germany.

6. Major Achievements:

Suddhasatwa Chakraborty

1. Was selected as Visiting Scientist in Chair of Lighting Technology, Department of Energy & Automation Technology, Technical University of Berlin (TUB), Germany in a collaborative research project entitled “Contrast threshold with marking light in road lighting.” in the tenure May-June 2018.
2. Was nominated as Alternative Institutional Member of the Electro-Technical Committee, ETD-23, and Bureau of Indian Standard (BIS).

Annual Report 2018-19

3. Nominated as Member of the Electro-Technical Committee, ETD-49, Bureau of Indian Standards (BIS).
4. Was invited in CIE Division-4 annual meeting at Technical University of Berlin, 22nd-23rd May 2018, Germany.
5. Nominated as Associate Member- Division-4, International Commission on Illumination (CIE).
6. Drafting of the revision of the National Lighting Code 2019: Road Lighting section.

Machine Section

1. B. No. of Faculty Members: 09

2. A. Area of Research Activities:

- Parameter Estimation and speed control of Induction machines.
- Control of Self-excited and Doubly fed Induction Generators.
- Development of Improved Harmonic Elimination Techniques of Inverters.
- Control of Permanent magnet machines.
- Wind and Solar energy conversion systems.
- Advanced methods of Reactive power compensation.
- Condition monitoring of rotating electrical machines.
- Design and Modeling of rotating machines.
- BLDC Machines and It's control.
- Embedded systems.

2. B. Major Research projects:(Departmental/Individual –Name of the Project –Funding agency)

A Wind-Solar Hybrid Microgeneration Scheme Suitable for Wide Speed Range and Grid-isolated Remote Applications–MNRE

3. A. Invited Lectures Delivered/ Session Chaired: (Name of the Teacher–Type of Participants–Name of Seminar/ Conference–Place and Duration)

Arindam Kumar Sil–Invited Talk Smart Grid–B P Poddar Institute of Management and Technology, Kolkata, on 2nd March, 2019

3. B. Seminar/Workshop/Conference/Symposium Attended:(Name of the Teacher–Name of the workshop attended–Place–Duration)

Mihir Hembram–Hands-On Protection Relay School–CPRI, Bangalore–6th-9th February,2019

3. C. Seminar/Workshop/Conference/Symposium Organized:(Name of the Teacher–Name of seminar/ conference–Place and Duration)

Arindam Kumar Sil–Welcome to the Machine: A Panel Discussion –Electrical Engineering Department, Jadavpur University on 08.03.2019

4. B. Articles Published in the Journals (including National / International/ Peer reviewed Journal):

1. Kuheli Goswami, Ayandeep Ganguly and Arindam Kr. Sil, “Comparing ARIMAX over ANN for Peak Load Forecasting”, International Conference on Advanced Computing and Intelligent Engineering, ICACIE, Springer Conference, held at Siksha o Anusandhan, Bhubaneswar, December, 2018.
2. Ayandeep Ganguly, Kuheli Goswami and Arindam Kr. Sil, “ANN technique based Mid Term Load Forecasting as a case study for Peak Load Reduction”, IEEE Conference on Applied Signal Processing (ASPCON 2018), Jadavpur University, Kolkata, December, 2018.

Annual Report 2018-19

3. Kuheli Goswami, Ayandeep Ganguly and Arindam Kr. Sil, "Day Ahead Forecasting and Peak Load Management Using Multivariate Auto Regression Technique", Applied Signal Processing Conference 2018, IEEE Conference (ASPCON), Kolkata, December, 2018.
4. Kuheli Goswami, Ayandeep Ganguly and Arindam Kr. Sil, "Comparing Univariate and Multivariate method for Short Term Load Forecasting", International Conference on Computing, Power and Communication Technologies, IEEE Conference, Noida, September, 2018.
5. Ayandeep Ganguly, Kuheli Goswami and Arindam Kr. Sil, "Short Term Load Forecasting using Artificial Neural Network for Peak Load Reduction", International Conference on Emerging Trends in Engineering and Science, Springer Conference, Asansol Engineering College, March, 2018.
6. Diptarshi Bhowmick, Dr. Suparna Kar Chowdhury, "Estimation of Losses and Performance Parameters of Three Phase Induction Motor using Particle Swarm Optimization and H – G Diagram," Proceedings of PEDES 2018, December, 2018, Chennai India. DOI: 10.1109/PEDES.2018.8707590.
7. Diptarshi Bhowmick, Dr. Suparna Kar Chowdhury, "Parameter and Loss Estimation of Three Phase Induction Motor from Dynamic Model using H – G Diagram and Particle Swarm Optimization", Proceedings of PIICON 2018, December, 2018, Kurukshetra, India. DOI: 10.1109/POWERI.2018.8704353.

Conference Paper

1. D. Maiti, S. Mukhopadhyay, S. K. Biswas, "A 1-phase Static VAr Compensator with Low Current THD and Wide Control Range," IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), 18-21 Dec. 2018, Chennai, India
2. S. Mukhopadhyay, S. K. Biswas, D. Maiti, N. K. Deb, S. Sinha, G. Poddar, "Field Oriented Control Strategy for a Differential Induction Machine," IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), 18-21 Dec. 2018, Chennai, India
3. S. Sinha, S. Mukhopadhyay, D. Maiti, N. K. Deb, S. K. Biswas, "The Differential Induction Motor as a Proposed Direct Drive for Electric Vehicles," IEEE International Conference on Sustainable Energy Technologies and Systems (ICSETS), 26 Feb-1 March 2019, Bhubaneswar, India

Measurement and Instrumentation Section

1. B. No. of Faculty Members: 07

2. A. Area of Research Activities:

- Intelligent Instrumentation
- Signal Processing, Sensorics
- Smart sensing, Biometrics
- Application of E-tongue for quality assesment
- Wireless sensor applications

2. B. Major Research Projects: (Departmental/Individual–Name of the Project–Funding agency)

Dr. Palash Kumar Kundu–Development of Cardiovascular Waveform Simulator for training of medical Professionals–Higher Education, Science & Technology and Bio-Technology, Govt. West Bengal.

Dr. Gautam Sarkar (Role: Co-investigator)–Development and Validation of Algorithm for Estimation and Tracking of High Velocity Manoeuvring Targets. –DRDL, Ministry of Defense, Govt. of India, Hydrabad.

Dr. Gautam Sarkar (Role: Co-investigator)–Robustness analysis of AFADEC control laws covering redundancy management.–GTRE, DRDO, Ministry of Defense, Govt. of India, Bengaluru.

2. A. Invited Lectures Delivered/ Session Chaired:(Name of the Teacher–Type of Participants–Name of seminar/conference–Place and Duration)

Amitava Chatterjee–UG and PG students, Research Scholars, and Faculty Members–Chaired Session in First IEEE Conference on Applied Signal Processing (ASPCON), organized by IEEE Signal Processing Society Kolkata Chapter (date: December 7-9, 2018)–Jadavpur University, December 8, 2018

Amitava Chatterjee–UG and PG students, Research Scholars, and Faculty Members–Delivered Invited Lecture on “Sparse and Collaborative Representation Based Approaches for Biometric Systems” organized by Department of Applied Physics, Calcutta University, Kolkata, India–Department of Applied Physics, Calcutta University, Kolkata, India, 02 March, 2019

Amitava Chatterjee–INAE Fellows–Delivered INAE Fellow Presentation Lecture during INAE Annual Convention 2018 on “Sparse Representation and Machine Learning based Solutions for Instrumentation Systems and Control Systems” on December 14, 2018–INAE Annual Convention, Research Centre Imarat (RCI), Hyderabad, 14 December, 2018

Amitava Chatterjee–Faculty Members–Delivered Invited Lecture on “Bacterial Foraging Optimization and Gravitational Search Algorithm: Theory and Applications” (Occasion: TEQIP Sponsored FDP under Twinning Agreement on “Optimization Techniques and its Application in Science & Technology” organized by Dept of Electrical Engineering and Dept of Mathematics, Tripura Institute of Technology, Narsingarh, Agartala, Tripura) –Tripura Institute of Technology, Narsingarh, Tripura, 10 December, 2018

Amitava Chatterjee–UG and PG students and Faculty Members–Delivered Invited Lecture on “Application of Modern Control System in Real World: An Overview of Sliding Mode Control”–Department of Electrical Engineering, National Institute of Technology Mizoram, 11 October, 2018

Amitava Chatterjee–UG and PG students, Research Scholars, and Faculty Members–Delivered Invited Lecture on “Spoofing and Anti-Spoofing in Biometrics: Challenges and Solutions” (Occasion: “One day Technical Lecture Meeting on Cutting-edge Perspectives of Intelligent Systems Developments for Social Cause” organized by IEEE CAS Chapter Kolkata Section, IET Kolkata Network and Electrical Engineering Department, Jadavpur University)–Jadavpur University, Kolkata, India, 27 July, 2018

Amitava Chatterjee–UG and PG students, Research Scholars, and Faculty Members–Delivered Invited Lecture on “Fuzzy Systems and Fuzzy Control:From Theory to Implementation” (Occasion: FDP on “Enhancement of Quality Education and Research”, organized by University of Engineering and Management (UEM), Kolkata, India (Duration: 2-6 July, 2018))–Jadavpur University, Kolkata, India, 27 July, 2018

Amitava Chatterjee–UG and PG students, Research Scholars, and Faculty Members–Delivered Invited Lecture on “Pursuit Algorithms for Sparse Representations in Signal and Image Processing” (Occasion: Workshop on “Recent trends in Machine Learning and Soft Computing”, organized at Department of Comp Sc and Engg, National Institute of Technology Durgapur (Duration: 16-20 April, 2018)–Department of Comp Sc and Engg, National Institute of Technology Durgapur, 20 April, 2018

Palash K. Kundu–Invited speaker–National Level Project based workshop entitled “Internet of Things-A Practical Perspective–RCC Institute of Information Technology, Kolkata, from 6-07-2018 to 10-07-2018

Palash K. Kundu–Invited speaker–All India seminar on the topic Energy System: Generation, Utilization and Control–Electrical Engineering, Budge budge Institute of Technology, Budge budge, Kolkata.–from 21-02-2019 to 22-02-2019.

Palash K. Kundu–Invited speaker–Hands on workshop on the topic Biomedical Signal Analysis–Techno-Salt lake 04-03-2019.

Palash K. Kundu–Invited speaker–Faculty Development Programme on the topic “Analog Signal Acquisition, Analog Filtering , A/D conversion and Digital Filtering –Electrical Engineering, Techno International , New Town, Kolkata.from 04-02-2019 to 08-02-2019

Annual Report 2018-19

Sugata Munshi–UG Students–Delivered lecture on “Introduction & Industrial Application of different Transducers”, organized by the Department of Electrical Engineering, Pailan Technical Campus–Pailan Technical Campus, 12th May, 2018

Sugata Munshi–Practicing Engineers –Delivered lecture on “Issues and Trends In Sensorics”. One day technical seminar on “Evolving Power Sector” organized by “West Bengal State Power Engineers’ Association”–Bidyut Bhavan, Kolkata, 19th May, 2018.

Sugata Munshi–UG Students–Delivered lecture on “*Intelligent Instrumentation*” and “Programmable Logic Controllers”–Tripura Institute of Technology, Agartala, 3rd August, 2018.

Sugata Munshi–Faculty members & Students–Delivered Distinguished Professor Lecture on ‘*A cursory View of Capacitive Sensors*’–Electrical Engineering Department of ‘Institute of Engineering and Management’, Salt Lake, Kolkata, 4th October, 2018

Sugata Munshi–Practicing Engineers and Academicians–Delivered 16th Prof. J. K. Chowdhury Memorial talk on “Trends and Issues In Sensorics”–Institution of Engineers (India), West Bengal State Centre, 5th October, 2018.

Sugata Munshi–Chaired a Technical Session in ASPCON-2018–Jadavpur University, Kolkata, December-7-9, 2018.

Biswajit Bhattacharyya–Management Trainee, CESC–Power Distribution Technology–HRD Department, CESC Limited,P-18 Taratala Rd, Kolkata – 88. Duration: One day on 4th February, 2019.

Biswajit Bhattacharyya–Undergraduate students of Pailan College of Management & Technology–Microcontroller Based System Development Using Arduino UNO–Pailan College of Management & Technology,Pailan Park, Kolkata – 104. Duration: Two days. November 2 – 3, 2018.

4. A. Books / Monographs Published: (Name of the Teacher–Name of the Book–Name of the Publisher)

Amitava Chatterjee–Kaushik Das Sharma, Amitava Chatterjee, and Anjan Rakshit, *Intelligent Control: A Stochastic Optimization based Adaptive Fuzzy Approach*.

Debangshu Dey–Edited Volume by, Sovan Dalai, Debangshu Dey, Biswendu Chatterjee and Susanta Ray” *Proceedings of 2018 IEEE Applied Signal Processing Conference (ASPCON)* Electronic ISBN: 978-1-5386-6686-9 ISBN: 978-1-5386-6687-6–IEEE (Institute of Electrical and Electronics Engineers).

4. B. Articles Published in the Journals (including National / International/ Peer reviewed Journal): (Name of the Teacher –Name of the Articles–Name of the Journal–Date of Publication–Volume)

D. Dey–Soumyadeep Paul, Saptarshi Chatterjee, Debangshu Dey, Sugata Munshi, “Morphological Operations with Iterative Rotation of Structuring Elements for Segmentation of Retinal Vessel Structures”,–*Multidimensional Systems and Signal Processing*, Springer (Impact Factor 1.31), Vol. 30, No. 1, pp. 373–389, 2018.–2018.–Vol. 30, No. 1, pp. 373–389,

D. Dey–P. Mondal, B. Roy, D. Dey, “Optimization of luminaire layout to achieve visually comfortable and energy efficient indoor general lighting scheme by Particle Swarm Optimization”, –*Journal of the Illuminating Engineering Society*, Taylor and Francis (Impact Factor 2.56),–2018. –DOI: 10.1080/15502724.2018.1533853

D. Dey–N. Chatterjee, B. Bhattacharyya, D. Dey and S. Munshi, “A Combination of Astable Multivibrator and Microcontroller for Thermistor Based Temperature Measurement over Internet, –*IEEE Sensors Journal* –2019.–Vol. 19 , No. 9, pp. 3252 – 3259,

D. Dey–Saptarshi Chatterjee, Debangshu Dey, Sugata Munshi, “Integration of Morphological Preprocessing and Fractal Based Feature Extraction with Recursive Feature Elimination for Skin Lesion Types Classification”, –Accepted in *Computer Methods and Programs in Biomedicine* (Impact factor: 3.427), Elsevier 2019.–Manuscript no: CMPB_2019_223_R1,

Annual Report 2018-19

D. Dey–Saptarshi Chatterjee, Debangshu Dey, Sugata Munshi, “Extraction of features from cross correlation in space and frequency domains for classification of skin lesions”,–*Biomedical Signal Processing and Control*, Elsevier –2019.–Vol. 53.

D. Dey–P. Mondal, B. Roy, D. Dey, “Indoor lighting optimization – a comparative study between grid search optimization and particle swarm optimization”, –*Journal of Optics*, Springer, –2019–Manuscript no: OPTI-D-19-00007R1.

Amitava Chatterjee–Pritam Paral, Amitava Chatterjee, and Anjan Rakshit, “Vision sensor based shoe detection for human tracking in a human-robot coexisting environment: A photometric invariant approach using DBSCAN algorithm”–*IEEE Sensors Journal* (Impact Factor: 2.512)–2019–vol. 19, issue 12, pp. 4549-4559.

Amitava Chatterjee–Pritam Paral, Amitava Chatterjee, and Anjan Rakshit, “OPTICS-based template matching for vision sensor-based shoe detection in human-robot coexisting environments”–*IEEE Transactions on Instrumentation and Measurement* (Impact Factor: 2.456)–2019–Accepted for publication.

Amitava Chatterjee–Dibyendu Pal, Amitava Chatterjee, and Anjan Rakshit, “Robust-stable quadratic-optimal fuzzy-pdc controllers for systems with parametric uncertainties: a PSO based approach”–*Engineering Applications of Artificial Intelligence* (Impact Factor: 2.894), Elsevier publishers–2018 vol. 70, pp. 38-51.

Palash Kundu–“Development of Lossless Compression Algorithms for Power System Operational Data–IET Generation, Transmission and Distribution–September 2018–Vol. 12, Issue. 17.

Palash Kundu–Development of Cloud based Power System Operational Data Management System–IET Generation, Transmission and Distribution–March 2019–Vol. 13, Issue. 5.

Sugata Munshi–Nabanita Chatterjee, Biswajit Bhattacharyya, Debangshu Dey and Sugata Munshi, “A Combination of Astable Multivibrator and Microcontroller for Thermistor Based Temperature Measurement over Internet”,–*IEEE Sensors Journal*–2019–Vol. 19, Issue 9, pp. 3252 – 3259.

Sugata Munshi–Soumyadeep Pal, Saptarshi Chatterjee, Debangshu Dey and Sugata Munshi, “Morphological Operations with Iterative Rotation of Structuring Elements for Segmentation of Retinal Vessel Structures”–*Multidimensional Systems and Signal Processing*, Springer–January 2019 –Vol. 30, Issue 1, pp. 373-389.

Biswajit Bhattacharyya–Aven Murmu, Biswajit Bhattacharyya and Sugata Munshi, “A Synergy Of Voltage-To-Frequency Converter And Continued-Fraction Algorithm For Processing Thermocouple Signals”–*Measurement*, Elsevier Publisher –2018–Volume 16, pp 514 – 522.

Gautam Sarkar–Santanu Chattopadhyay, Gautam Sarkar and Arabinda Das “Sleep Apnea Diagnosis by DWT based Kurtosis, Radar and Histogram Analysis of Electrocardiogram”, –*IETE Journal of Research*, –2018–July, 2018, Doi: 10.1080/03772063.2018.1507765.

Gautam Sarkar –Subhra J. Sarkar, Palash K. Kundu, Gautam Sarkar, “Development of Cloud based Power System Operational Data Management System–*IET Generation, Transmission & Distribution*, February, 2019 –Vol. 13 Issue 5, pp. 644-651.

6. Major Achievements:

- a) Debangshu Dey was awarded Teachers Associateship for Research Excellence (TARE-SERB) by DST, GoI in 2018.
- b) Debangshu Dey was awarded “Young Faculty Research Fellowship” under Visvesvaraya PhD Scheme, Ministry of Electronics & Information Technology, GoI in 2019.

Annual Report 2018-19

- c) Amitava Chatterjee became Fellow of Indian National Academy of Engineering (FNAE), with effect from November 01, 2018.
- d) Amitava Chatterjee served as a Member of “IEEE Transactions on Instrumentation and Measurement (TIM)’s Best Paper Award Committee” in 2018.
- e) Amitava Chatterjee is adjudged “Outstanding Associate Editor of IEEE Transactions on Instrumentation and Measurement” in 2018.
- f) Amitava Chatterjee continues to serve as an Editor of *IEEE Transactions on Vehicular Technology*.
- g) Amitava Chatterjee continues to serve as an Associate Editor of *IEEE Transactions on Instrumentation and Measurement*.
- h) Amitava Chatterjee continues to serve as an Associate Editor of *IEEE Sensors Journal*.
- i) Amitava Chatterjee continues to serve as an Editor of *Engineering Applications of Artificial Intelligence* Journal, Elsevier Publishers.

Power System Section

1. B. Number of Faculty Members: 05

3. A. Invited Lectures Delivered/Sessions Chaired: (Name of the Teacher–Type of Participants–Name of Seminar/ Conference–Place and Duration)

Prof. S. K. Goswami–Invited Lecturer–Advancement of Modern Technology in Engineering and Engineering Science–NIT, Durgapur 13th Nov.- 19th November, 2018

Prof. Subrata Paul–Invited Lecturer–CESC Ltd. Jadavpur University, December 2018,

Prof. S. K. Goswami–Invited Lecturer–CESC Ltd.–Jadavpur University, December 2018,

Dr. Sunita Halder (nee Dey)–Invited Lecturer–CESC Ltd. –Jadavpur University, December 2018, 2hrs

Sri. Ayan Kumar Tudu–Invited Lecturer–CESC Ltd.–Jadavpur University, December 2018, 2hrs

Dr. Sunita Halder (nee Dey)–Invited Lecturer–Renewable Energy and FACTS devices applications in Electrical Engineering–Dr. Sudhir Sur Degree Engineering College, Dum Dum, Kolkata, organized by The Student Chapter, The Institutions of Engineers (India) of Electrical Engineering Department, on 29th March, 2019

5. B. Articles Published in Journals: (Name of the Teacher–Name of the article–Name of the journal–Date of publication–Volume, page no.)

Dulal Manna, Swapan K Goswami, Pranab Kumar Chattopadhyay–Optimisation of droop coefficients of multiple distributed generators in a micro-grid,–*IET Generation, Transmission & Distribution*–2018/8/10 –4108-4116.

Madhumita Kundu and Sudipta Debnath– “High Impedance Fault Classification in UPFC Compensated Double Circuit Transmission Lines using Differential Power Protection Scheme,” –*1st IEEE Conference on Applied Signal Processing*–7-9 Dec. 2018.

Anushree Roy and Sudipta Debnath–Smart Load for reactive power compensation and harmonic suppression in distribution system–*1st IEEE Conference on Applied Signal Processing*–7-9 Dec. 2018

Subhomita Roy and Sudipta Debnath–ANN Based Method for Power System Harmonics Estimation–*1st IEEE Conference on Applied Signal Processing*–7-9 Dec. 2018.

Subhra De and Sudipta Debnath –Virtual Instrument for Measurement of Power Quality in Unbalanced Three Phase System–*1st IEEE Conference on Applied Signal Processing*–7-9 Dec. 2018.

Annual Report 2018-19

Alok Kumar, Aditya, Saurav Raj, Aman Kumar Swarnkar, Kundan Barnwal, Sudipta Debnath–"A Single Ended Wavelet Based Fault Classification Scheme in Transmission Line"–*1st IEEE Conference on Applied Signal Processing*–7-9 Dec. 2018.

Sayan Paramanik, Krishna Sarker, Debashis Chatterjee, SK Goswami–Smart Grid Power Quality Improvement Using Modified UPQC–*2019 Devices for Integrated Circuit (DevIC)*–2019/3/23–356-360.

Sayan Paramanik, Krishna Sarker, Biswajit Mahanty, Avijit Chakraborty, Debashis Chatterjee, SK Goswami – "Smart Wireless Distribution for Micro Grid System"–*2019 Devices for Integrated Circuit (DevIC)*–2019/3/23–348-355.

Suman Biswal, Arnab Ghosh, Sajjan Kumar, Niladri Chakraborty, Swapan Kumar Goswami–"Cuckoo Search Algorithm Based Cost Minimization by Optimal DG and Capacitor Integration in Radial Distribution Systems", –*20th National Power Systems Conference (NPSC)*–2018/12/141-6.

Chandan Jana, Swapan Kumar Goswami, Sugata Munshi –Distributed Generation Placement Based on System Reliability in Unbalanced Distribution System with Uncertainty in Load Demand–*2018 3rd International Conference for Convergence in Technology (I2CT)*–2018/4/6–1-5.

T Malakar, SK Goswami, A Rajan– "Demand Side Management of a Commercial Customer Based on ABC Algorithm"–*Soft Computing for Problem Solving*–2019–617-634.

ELECTRONICS & TELECOMMUNICATION ENGINEERING

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1. A. Courses Offered:

- **B.E. Tel.E.** : 4 years (82 x 2 + 86 x 2 + 3+6+6 (for lateral entry) = 351)
- **M.E. Tel.E.** : 2 years (30 (including 5 Q.I.P) x 2 = 60)
- **Evening M.Tech.** :
 1. VLSI and Microelectronics, 3 years (18 x 3 = 54)
 2. Intelligent Automation and Robotics, 3 years (18 x 3 = 54)

1. B. Number of Faculty Members: 16+1 (DST Inspire Faculty)

2. A. Area of Research Activities: (Broad Areas)

1. Antenna Analysis and Synthesis
2. Artificial Intelligence
3. Biomedical Image/Signal Processing
4. Brain-Computer Interfaces
5. Cognitive Cybernetics

Annual Report 2018-19

6. Computer Vision
7. Cryptography, Watermarking
8. Digital Design
9. Electron Devices and Circuits
10. Embedded Systems
11. Error Correcting Coding Techniques
12. Evolutionary and Swarm Optimization
13. Heart Sound Anomaly Detection System
14. Intelligent Transport System
15. Matematerials
16. MEMs, NEMs and Gas Sensors
17. Microstrip Antennas and Filters
18. Microwave and Millimeter Wave Antennas
19. Microwave Passive Device
20. Mobile Ad-hoc Networks (MANET)
21. Multimedia Analysis
22. Nanodevices and Low power VLSI circuits
23. Network Densification
24. Optics and Optical Network
25. Pattern Recognition
26. Resource Management
27. RF Energy Harvesting
28. RF VLSI
29. RFID and its Applications
30. Robotics
31. Signal Processing
32. Substrate Integrated Waveguide
33. Video Communication Over Cognitive Radio Platform
34. VLSI Design
35. Wireless Communication
36. Wireless Sensor Networks

2. B. Major Research Project:(Name of the Faculty – Title of the Project – Funding Agency – Amount (Rs.)
– Duration – Status (Completed / Ongoing)

Prof. Amit Konar

1. Title of the Project – UPE-II Umbrella Project in Cognitive Science
Funding Agency – UGC
Amount (Rs.) – Rs. 3.7 crores
Duration – 2016 April to 2019 March
Status (Completed / Ongoing) – Completed

Annual Report 2018-19

Prof. Bhaskar Gupta

2. Title of the Project – Antenna System Design for Proximity Sensor
Funding Agency – ARDE, DRDO
Amount (Rs.) – 24.725 lakhs
Duration – 2016-2018
Status (Completed / Ongoing) – Ongoing
3. Title of the Project – Advanced Materials and Systems (Devices and Systems Subgroup) (Jointly with Prof. S. K. Sarkar)
Funding Agency – UGC under UPE II scheme
Amount (Rs.) – 26.032 lakhs
Duration – 2016-2018
Status (Completed / Ongoing) – Ongoing
4. Title of the Project – Investigation on Electromagnetic Energy Absorption in Plants and Fruits along with Consequent Effects
Funding Agency – JU-RUSA 2.0 Departmental support towards up-gradation in research
Amount (Rs.) – 4.99 lakhs
Duration – 2019-2020
Status (Completed / Ongoing) – Ongoing

Prof. Chayanika Bose

5. Title of the Project – Modeling Optoelectronic and Transport Characteristics Of Semiconductor Nanostructures
Funding Agency – UPE-II, UGC
Amount (Rs.) – Rs. 13 lakhs
Duration – 7 years
Status (Completed / Ongoing) – Completed on March 31, 2019

Prof. Iti Saha Misra

6. Title of the Project – An Engineering Approach for a Complete System Design of Heart Sound Anomaly Detection: An IoT Based Platform
Funding Agency – RUSA 2.0, Jadavpur University
Amount (Rs.) – Rs. 6 lakhs
Duration – March, 2019 –March, 2020
Status (Completed / Ongoing) – Ongoing
7. Title of the Project: Design and Development of Remote Monitoring of e-health system over Wireless Platform using Cognitive Radio
Principal Investigator – Prof. Iti Saha Misra,
Funding Agency – UPE-II,UGC
Amount (Rs.) – Rs. 16.25 lakhs
Duration – March, 2016–March, 2019
Status (Completed / Ongoing) – Completed

Prof. Subir Kumar Sarkar

8. Title of the Project – Development of efficient solar cell structures with the exploration of suitable material in software domain and characterization of such solar cells
Funding Agency – Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)
Amount (Rs.) – 4.496 lakhs
Duration – 2019–2020
Status (Completed / Ongoing) – Ongoing
9. Title of the Project – Cost Effective and Manpower Efficient Real-Time Implementation of RFID Based Surveillance System for Poultry Based Industry in Rural/Urban Region to Solve the Avian Influenza/Bird Flu Problem
Funding Agency – Department of Science and Technology-West Bengal (DST-WB)
Amount (Rs.) – 15.908 lakhs
Duration – 2018-2021
Status (Completed / Ongoing) – Ongoing
10. Title of the project – Analytical Modeling and simulations of SOI/SON MOSFETs: a comparative analysis to get better device for next generation integrated circuits
Funding Agency – UGC MRP-MAJOR-ELEC-2013-19144
Amount (Rs.) – 8.325 lakhs
Duration – 2016-2018
Status (Completed / Ongoing) – Completed
11. Title of the project – Analytical Modeling and simulation based verification for low dimensional devices suitable for Low Power Application
Funding Agency – UGC UPE Phase-II
Amount (Rs.) – 7.32 lakhs
Duration – 2016-2019
Status (Completed / Ongoing) – Completed
12. Title of the project – Low Power ASIC-VLSI Implementation of Secure and Authentication Algorithms for Defense Application
Funding Agency – UGC UPE Phase-II
Amount (Rs.) – 7.82 lakhs
Duration – 2016-2019
Status (Completed / Ongoing) – Completed
13. Title of the project – PURSE II
Funding Agency – Department of Science and Technology
Amount (Rs.) – 85 Lakhs
Duration – 2015-2018
Status (Completed / Ongoing) – Completed

Dr. Sayan Chatterjee

14. Title of the Project – Design and Development of X band Dual Polarized Waveguide Slotted Array Antenna
Funding Agency – Indian Space Research Organization under RESPOND scheme
Amount (Rs.) – 20.46 lakhs
Duration – 2017–2019

Annual Report 2018-19

Status (Completed / Ongoing) – Ongoing

15. Title of the Project – Establishment of Special Manpower Development Facility (SMDP-C2SD)

Funding Agency – MeITy, India

Amount (Rs.) – 136 lakhs

Duration – 2015–2020

Status (Completed / Ongoing) – Ongoing

Dr. Chandrima Mondal

16. Title of the Project – Establishment of Special Manpower Development Facility (SMDP-C2SD) (Jointly with Dr. Sayan Chatterjee)

Funding Agency – MeITy, India

Amount (Rs.) – 136 lakhs

Duration – 2015–2020

Status (Completed / Ongoing) – Ongoing

- 3. A. Invited Lectures Delivered/Sessions Chaired:** (Name of the Teacher, Type of Participants, Name of the Seminar / Conference etc. Place, Duration)

Invited Lectures Delivered

Prof. Amit Konar

1. Invited lecture on “Brain Controlled Robotics” on 24th April 2018, at the Dr. Sudhir Chandra Sur Degree Engineering College (DSCSDEC), Kolkata.
2. Invited lecture on “Brain Inspired Robotics” on 17th May 2018 at the Institution of Engineers, Gokhel Road, Kolkata.
3. Delivered a one day lecture on “Brain Computer Interfacing and Robotics” on 31st August 2018 at the Tripura Institute of Technology (TIT), Tripura, as a part of the twinning program between JU and TIT.
4. Invited lecture on “Brain Computer Interfacing and Rehabilitative Robotics” on 14th September 2018, at the Ailabs Academy, Kolkata, an IT company dealing with Artificial Intelligence research.

Prof. Ananda Shankar Chowdhury

5. Invited talk on “Computer Vision for Biomedical Problems” at TCS Research & Innovation Lab., Kolkata, India, February 2019.
6. Invited tutorial on “Unsupervised Video Data Processing: From Third-Person to First-Person” at UGC sponsored refresher course, Computer Science, Calcutta University, India, January 2019.
7. Invited tutorial on “Information Extraction in Videos: From Third-Person to First-Person”, at UGC sponsored inter-disciplinary refresher course on “Advances in Instrumentation and Automation: Role of ICT”, Instrumentation and Electronics Engineering, Jadavpur University, India, December, 2018.
8. Invited talk on “Video and Image Processing” at IEEE Technical Lecture, NetajiSubhas Engineering College, Kolkata, India, October 2018.
9. Invited tutorial on “Video Processing with Graph-based Representations and Statistical Techniques” at Fifth Summer School on Computer Vision, Graphics and Image Processing, ISI Kolkata, June 2018.

Prof. Bhaskar Gupta

10. Keynote speaker at “Summer School on Antenna and Microwave Engineering (SUSAME) 2018,” sponsored by TEQIP III, NIT Silchar, 23-27 July 2018.
11. Invited lecture at International Microwave and RF Conference (IMaRC) held from November 28 to 30, 2018 in Kolkata, India.
12. Invited lecture on Electromagnetics and Antenna Design, May 23-27, 2018 at IIT, BHU.

Prof. Iti Saha Misra

13. Delivered a three hour invited lecture on “Journey of Mobile Wireless Communication towards 5G Development”, for the short terms course at ECE Department, Veer Surendra Sai University of Technology, Burla, Odisha, on 5th May, 2018.
14. Resource person and speaker for the TEQIP III sponsored one week short term course on “Recent Trends in Wireless Communications: Challenges and Opportunities” (ReTWiC 2018) between December, 03 – 07, 2018.
15. Delivered ComSoc Lecture on 18 May 2018 at the Inaugural Session of the opening of ComSoc Student Branch Chapter at Silchar, NIT.
16. Delivered an invited talk on “Cognitive Radio and Some Prospective Applications for 5G Communication”, at ICCAP-2019, Sikkim Manipal Institute of Technology, Majitar, East Sikkim, Sikkim-737136, India, 27th Feb 2019.
17. Delivered Inaugural Lecture on Wireless Communication and Algorithms: Opportunities for Computer Science Researcher”, on 23 Nov 2018 at the Heritage Institute of Technology.

Prof. Sheli Sinha Chaudhuri

18. Delivered an invited talk on “Latest Trends in Computer Vision Technology and its Applications” in Optronix 2019, IEEE 5th International Conference on Opto-electronics and Applied Optics, UEM, Kolkata, March 18-20, 2019
19. Delivered a lecture on “Digital Image Processing and its Application in Hazy Images” in FDP Analog and Digital Systems, Tripura Institute of Technology, Agartala, December 5-7, 2018.
20. Invited talk on “Digital Image Processing and its Application in Image Restoration” to 2nd and 3rd year students at UEM, Kolkata, 3rd October, 2018.
21. Invited lecture in faculty development program on “Aliasing Effects in Digital Image Processing”, Rajasthan Technical University, Kota, June, 27-29, 2018.

Prof. Subir Kumar Sarkar

22. IEEE Distinguished Lecture on “Renovative and Innovative Device Structures Suitable for Ultra Low Power VLSI Circuits” on 1st March, 2019, in 9th IEEE EDS Mini Colloquium (MQ) organized by the National Institute of Science & Technology (NIST), Berhampur, Orissa.
23. IEEE Distinguished Lecture on “Computation without Power Dissipation” on 31st July, 2018 in IEEE EDS Distinguished Lecture organized by ED MSIT Student Branch Chapter, IEEE MSIT Student Branch, in association with the Department of Electronics and Communication Engineering, Meghnad Saha Institute of Technology, Kolkata.
24. IEEE Distinguished Lecture on “Renovation and Innovation in Nano-Device Structures for Performance Improvement” on 31st July, 2018 at the IEEE EDS Distinguished Lecture organized by ED MSIT Student Branch Chapter, IEEE MSIT Student Branch, in association with the Department of Electronics and Communication Engineering, Meghnad Saha Institute of Technology, Kolkata.
25. IEEE Distinguished Lecture on “MOSFET Scaling” on 23rd July, 2018, at the IEEE ED Mini Colloquium (MQ) in association with Student Branch Chapter of IEEE EDS Society organized by Department of Electronics and Communication Engineering, Kalyani Government College, Kalyani, West Bengal.
26. IEEE Distinguished Lecture on “Impacts of MOSFET Device Scaling” on 10th July, 2018, at the IEEE EDS Distinguished Lecture organized by Department of Electronics and Communication Engineering in association with the student chapter of IEEE EDS Society organized by RCCIIT, Kolkata.
27. Invited speech as guest lecturer on “Bridging the Gap in Our Knowledge on Nano-devices and VLSI Design Issues” in Srinix College of Engineering, Balasore, Orissa on 1st December, 2018.
28. Invited speech on “Industry-Institute Collaboration for the Survival: Research and Product Development” in Srinix College of Engineering, Balasore, Orissa on 1st December, 2018.

Annual Report 2018-19

29. Invited speech on “Evolutionary and Revolutionary FET Structures for Application in Efficient and Ultra Low Power VLSI Circuits” in 2018 IEEE Electron Device Kolkata Conference (EDKCON) organized by IEEE EDS Kolkata Chapter, in Pride Hotel, Kolkata on 25th November, 2018.
30. Invited speech on “Digital Piracy : Watermarking Scheme is a Potential Solution” at the JB Institute of Engineering and Technology (Autonomous), Hyderabad, Telangana, India on 28th July, 2018.
31. Invited speech on “VLSI Circuits Design for Computation without Power Dissipation” in JB Institute of Engineering and Technology (Autonomous), Hyderabad, Telangana, India on 28th July, 2018.
32. Invited speech as guest lecturer on “Wireless Sensor Networks” at the Nalla Narasimha Reddy Education Society, Hyderabad, Telangana, India on 26th July, 2018.
33. Invited speech as guest lecturer on “Scaling Approaches in MOSFET” at the Nalla Narasimha Reddy Education Society, Hyderabad, Telangana, India on 26th July, 2018.
34. Invited speech on “Trust Management Systems for Wireless Self-Organizing Networks” at the International Conference on Communication Devices and Networking (ICCDN) – 2018, organized by Department of Electronics and Communication Engineering, SMIT, Majitar, Sikkim on 3rd June, 2018.
35. Invited lecture on “Trust Management and Energy Efficient Schemes in Wireless Self-Organizing Networks” on 18th March 2019, organized by the School of Computing, Engineering and Mathematics of Western Sydney University, Australia.
36. Guest seminar lecture on “Trust Management System in Wireless Self-organizing Networks” on 12th March 2019, organized by the School of Electrical and Data Engineering, Faculty of Engineering and IT of University of Technology Sydney, Australia.
37. Invited seminar presentation on “Computation without Power Dissipation: Searching Possibilities” on 11th March 2019, organized by Macquarie University, Sydney, Australia.
38. Delivered a one and half hour tutorial on “Advanced VLSI Design: Issues and Challenges (Part-I)” on 21st June 2018 in the short term course sponsored by TEQIP Phase-III in the Department of Electronics and Telecommunication Engineering, Jadavpur University.
39. Delivered a one and half hour tutorial on “Advanced VLSI Design: Issues and Challenges (Part-II)” on 23rd June, 2018 in the short term course sponsored by TEQIP Phase-III in the Department of Electronics and Telecommunication Engineering, Jadavpur University.

Prof. Sudipta Chattopadhyay

40. Delivered a lecture on “Binary Sequences in Spread Spectrum Multiple Access Communication” at short term course on Digital Systems and Digital Communications at Rajasthan Technical University, Kota, held between June 27-29, 2018.
41. Delivered a lecture on “Binary Sequences in Spread Spectrum Multiple Access Communication” at faculty development program on Analog and Digital Communication System at Tripura Institute of Technology, Agartala, held between December 05-07, 2018.
42. Delivered a lecture on “The Journey of IEEE Women in Engineering” at the inauguration ceremony of The Women in Engineering Student Branch, Assam, on February 15, 2019.

Dr. Jaydeb Bhaumik

43. Delivered a lecture on “Design and Application of Block Codes in Communication Systems” at faculty development program on Analog and Digital Communication System at the Tripura Institute of Technology, Agartala, held between December 05-07, 2018.
44. Delivered a lecture on “Design and Implementation of Block Codes” at short term course on Digital Systems and Digital Communications at Rajasthan Technical University, Kota, held between June 27-29, 2018.

Dr. Sayan Chatterjee

45. Delivered a one-day lecture on “IEEE Student Activities,” organized by IEEE WIE branch chapter, NIT Shilchar, on 15th February, 2019.

Annual Report 2018-19

46. Delivered two lectures on “Phase Locked loop” and “Receiver Architecture” at short term course on Digital Systems and Digital Communications at Rajasthan Technical University, Kota, during June 27-29, 2018.
47. Delivered lecture on “Substrate Integrated Waveguide in Future Communication” in one day seminar on Revolution in Communication at Sir R N Mookerjee Hall, Institute of Engineers, Kolkata, on 11th April, 2018.

Dr. Pratyusha Rakshit

48. Invited lecture on “Evolutionary Optimization and Its Application” at symposium on Social Transformation In Smart Mode-2019 (STSM-19), organized by Department of Electronics and Communication Engineering, Future Institute of Engineering and Management, on March 8, 2019.
49. Delivered a lecture on “Multi-Robot Coordination Using Differential Evolution” at faculty development program on Analog and Digital Communication System at Tripura Institute of Technology, Agartala, between December 05-07, 2018.
50. Invited lecture on “Multi-Robot Coordination” in Special Topics in Engineering and Technology at Department of Information Technology, Institute of Engineering and Management, on August 1, 2018.

Sessions Chaired

Prof. Ananda Shankar Chowdhury

1. Chaired a session at the Third International Conference on Computer Vision and Image Processing (CVIP) endorsed by IAPR at IIITDM Jabalpur, India, September 2018.

Prof. Bhaskar Gupta

2. Chaired a session at the International Microwave and RF Conference (IMaRC) held from November 28 to 30, 2018 in Kolkata, India
3. Chaired a session at MMS 2018 The 18th Mediterranean Microwave Symposium, Istanbul, Turkey from 31 October -2 November 2018.
4. Chaired a session in the 9th Annual IEEE Information Technology; Electronics and Mobile Communication Conference (IEEE IEMCON 2018) University of British Columbia; Vancouver, Canada 1st -3rd November 2018.

Prof. Sheli Sinha Chaudhuri

5. Chaired a session at the International Conference on Range Technology, DRDO Chandipur, February 15-17, 2019.
6. Chaired a session at the IEMENTech 2018, IEM Kolkata, May 4-5, 2018

Prof. Subir Kumar Sarkar

7. Chaired the technical session on “Circuit and Device Interactions” on 25th November, 2018 at the IEEE Electron Device Kolkata Conference (EDKCON), organized by IEEE EDS Kolkata Chapter, at the Pride Hotel, Kolkata.
8. Chaired the technical session on 03rd June, 2018 at the International Conference on Communication Devices and Networking (ICCDN) 2018, organized by the Department of Electronics and Communication Engineering, SMIT, Majitar, Sikkim on 03rd June, 2018.

Dr. Sayan Chatterjee

9. Chaired a session on “Receiver and Transmitter Components, RF MEMS and Microsystems” on 30th November at the IEEE International Microwave and RF conference (IMaRC-2018) in Kolkata, India.
10. Chaired a session on “MWCD-3” on 31st October, 2018 at the IEEE MMS- 2018 in Istanbul, Turkey.

Annual Report 2018-19

3. B. Seminar/Workshop/Conference/Symposium Attended:(Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)

Prof. Ananda Shankar Chowdhury

1. Third International Conference on Computer Vision and Image Processing (CVIP) endorsed by IAPR at IIITDM Jabalpur, India, September 2018.

Prof. Bhaskar Gupta

2. Advanced School of Antennas, Lecture on “Antenna Array Synthesis”, KIIT Bhubaneswar, 22-26 June 2018.
3. Keynote Speaker at the “Summer School on Antenna and Microwave Engineering (SUSAME) 2018”, sponsored by TEQIP III, NIT Silchar, 23-27 July 2018.

Prof. Iti Saha Misra

4. International Conference on Advanced Computational and Communication Paradigms (ICACCP-2019) during February 26-28, 2019, Sikkim Manipal Institute of Technology, Majitar, East Sikkim, Sikkim.

Prof. P. Venkateswaran

5. One day seminar on “IoT: Bringing Automation for Better Tomorrow” organized by TRAI, GoI, on September 14, 2018 at The Park Hotel, Kolkata.
6. One week TEQIP–III sponsored national level short term course on “Internet of Things (IoT): Theory and Applications” organized by the Dept. of CSE, IIT KGP during October 24 – 28, 2018 at IIT, Kharagpur.
7. One week AICTE sponsored short term course on “Embedded System Design” organized by the Dept. of E&ECE, IIT KGP during March 25 – 31, 2019 at IIT, Kharagpur.

Prof. Subir Kumar Sarkar

8. Attended as guest lecturer on “Bridging the Gap in our knowledge on nanodevices and VLSI Design Issues” at the Srinix College of Engineering, Balasore , Orissa on 1st December , 2018.
9. Attended as invited speaker on “Industry- Institute Collaboration for the Survival: Research and product Development” at the Srinix College of Engineering, Balasore , Orissa on 1st December , 2018.
10. Attended as invited speaker at the 2018 IEEE Electron Device Kolkata Conference (EDKCON) to deliver invited talk on “Evolutionary and Revolutionary FET Structures for Application in Efficient and Ultra Low Power VLSI Circuits” organized by IEEE EDS Kolkata Chapter, at the Pride Hotel, Kolkata on 25th November, 2018.
11. Attended as invited speaker to deliver an invited speech on “Digital Piracy: Watermarking scheme is a Potential solution” in JB Institute of Engineering and Technology (Autonomous), Hyderabad, Telangana, India on 28th July, 2018.
12. Attended as invited speaker to deliver an invited speech on “VLSI circuits design for computation without power dissipation” at the JB Institute of Engineering and Technology (Autonomous), Hyderabad, Telangana, India, on 28th July, 2018.
13. Attended as guest lecturer to deliver invited speech on “Wireless Sensor Networks” at the NallaNarasimha Reddy Education Society, Hyderabad, Telangana, India on 26th July, 2018.
14. Attended as guest lecturer to deliver invited speech “Scaling Approaches in MOSFET” in Nalla Narasimha Reddy Education Society, Hyderabad, Telangana, India on 26th July, 2018.
15. Attended as invited speaker at the International Conference on Communication Devices and Networking (ICCDN) – 2018 to deliver an invited speech on “Trust Management Systems for Wireless Self-Organizing Networks”, organized by Department of Electronics and Communication Engineering, SMIT, Majitar, Sikkim on 03rd June, 2018.

Annual Report 2018-19

16. Attended as Chairperson of the technical session on “Circuit and Device Interactions” on 25th November, 2018 in IEEE Electron Device Kolkata Conference (EDKCON) organized by the IEEE EDS Kolkata Chapter, at the Pride Hotel, Kolkata.
17. Attended as Chairperson of the technical session at the International Conference on Communication Devices and Networking (ICCDN) – 2018, on 03rd June, 2018, organized by Department of Electronics and Communication Engineering, SMIT, Majitar, Sikkim on 03rd June, 2018.
18. Attended a seminar as invited speaker on “Trust Management and energy efficient schemes in Wireless Self-organizing networks” on 18th March 2019, organized by the School of Computing, Engineering and Mathematics of Western Sydney University, Australia.
19. Attended a seminar as guest lecturer to deliver a lecture on “Trust Management system in Wireless Self-organizing networks” on 12th March 2019, organized by the School of Electrical and Data Engineering, Faculty of Engineering and IT of the University of Technology Sydney, Australia.
20. Attended a seminar as invited speaker to deliver a presentation on “Computation without power dissipation: searching possibilities” on 11th March 2019, organized by Macquarie University, Sydney, Australia.

Prof. Sudipta Chattopadhyay

21. All India Student – YP –WIE Congress (AISYWC’18) and presented the activity report of IEEE WIE Kolkata Section in the WIE Track held at the Vidya Vikas Institute of Engineering and Technology, Mysore during September 28 - 30, 2018.

Dr. Sayan Chatterjee

22. Participated in IEEE Region 10 Student | Young Professional | WIE Congress 2018 in Bali, Indonesia from 30th August to 2nd September, 2018.
23. Participated in the “In-class Entrepreneurship Faculty Development Program” at Jadavpur University from 30th July to 7th August 2018 sponsored by the Wadhvani Foundation and technically sponsored by TEQIP-III, JU.
24. Attended “One Day Workshop on Entrepreneurship Development Centre Network (EDCN)” at IIM Kolkata on 23rd April, 2018.
25. Attended “DAAD Falling Walls Lab” at Gandhi Bhavan, Jadavpur University on 7th April, 2018. Sponsored jointly by TEQIP-III, Jadavpur University, DAAD - German Academic Exchange Service and DWIH - German House for Research and Innovation, New Delhi.

Dr. Pratyusha Rakshit

26. Attended the 2018 IEEE World Congress on Computational Intelligence at Rio de Janeiro, Brazil during July 8-13, 2018.
27. Attended the 2018 IEEE Symposium Series on Computational Intelligence at Bengaluru, India during November 18-21, 2018.

3.C. Seminar/Workshop/Conference/Symposium Organized:(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

Prof. Ananda Shankar Chowdhury

1. PC Member, MedImage 2018 – Fifth Workshop on Medical Image Analysis, held in conjunction with the Indian Conference on Vision Graphics and Image Processing (ICVGIP), Hyderabad, India, December 2018.
2. Program Co-Chair, CVIP 2018 - Third International Conference on Computer Vision and Image Processing, endorsed by IAPR at IITDM Jabalpur, India, September 2018.

Annual Report 2018-19

Prof. Bhaskar Gupta

3. Organized a short term course on “Engineered Materials for Future Electromagnetic Research and Antenna Applications” at Department of Electronics and Telecommunication Engineering, Jadavpur University, between February 06-09, 2019, sponsored by TEQIP Phase III (A Twinning Programme).

Prof. Iti Saha Misra

4. Organized COMSOC Circuit Design Model Contest on 3rd April 2018 in association with Jadavpur University Science Club, ETCE Department JU.
5. Organized COMSOC Industry Interface Program on 3rd May 2018 at Broadband Wireless Communication Lab, ETCE, Annexe Building, First Floor.
6. Organized Membership development program and opening of COMSOC Student Branch Chapter, at NIT Silchar, on 18th May, 2018.
7. Organized Jadavpur University TEQIP-III sponsored workshop on “Towards 5G Development” on 6th July 2018 bring Industry personnel from Ericsson and National Instruments in the ETCE Department, JU.
8. Organized IEEE Distinguished Lecturer Tour program on “Data Centre Networking”, in the Department of ETCE, T-3-7, on 23rd July 2018. Prof. Suresh Subhraniam, IEEE Fellow, from Washington University, USA delivered the DLT.
9. Organized a one-day seminar on “Graph Theory and its Applications in wireless networks”, at HIT, Kolkata on 23rd November, 2018.
10. Organized three-day workshop on Wireless Communication, Computing and IOT, Data Analytics, sponsored by UPE-II, Jadavpur University, at Amitava Dey Memorial, CSE Dept. 14-16 February 2019.

Prof. Subir Kumar Sarkar

11. Organized a short term course on “Fabrication of Microelectronic Devices for VLSI Circuits and MEMS Based Sensors” during 21st -23rd June, 2018, sponsored by TEQIP Phase-III at the Department of Electronics and Telecommunication Engineering, Jadavpur University.

Prof. Sudipta Chattopadhyay

12. Organized a one-day workshop on “Application of MATLAB in Signal Processing”, held at Digital Signal Processing Laboratory, Dept. of ETCE, Jadavpur University on April 06, 2018, under the banner of IEEE Women in Engineering, Kolkata Section.
13. Organized a one-day workshop on “Fundamentals of MATLAB”, held at Digital Signal Processing Laboratory, Dept. of ETCE, Jadavpur University, on June 25, 2018, under the banner of IEEE Women in Engineering, Kolkata Section.
14. Organized a one-day computer literacy program on “Computer is Fun” in collaboration with IEST Shibpur, held at Begum Rokeya Sabhaghar, 3rd Floor, Main Building, HSS Department, IEST Shibpur, on August 11, 2018, under the banner of IEEE Women in Engineering, Kolkata Section.

Dr. Jaydeb Bhaumik

15. Technical Program Committee Member, ICCDC 2019, HIT, Haldia, India, March 2019.
16. Technical Program Committee Member, ICITAM 2019, HIT, Haldia, India, March 2019.
17. Technical Program Committee Member, ASPCON 2018, Jadavpur University, Kolkata, December 2018.

Dr. Sayan Chatterjee

18. Technical Programme Committee Co-Chair (From July 2018 – June 2019) of IEEE R-10 annual conference TENSYP-2019 at Kolkata.
19. Financial Co-Chair of IMARC-2018 (From April, 2018-December, 2018)) at Kolkata.
20. Organized “E-summit” at Jadavpur University from 6th April to 8th April, 2018 in collaboration with TEQIP-III, JU and Entrepreneur Cell, JU.

Annual Report 2018-19

Dr. Chandrima Mondal

21. Local Executive Member of 5th International Conference on Microelectronics, Circuits and Systems held on 19th and 20th May, 2018, in Bhubaneswar, Odisha, India.

3. D. Orientation Courses/ Refresher Courses Attended:(Name of the Teacher, Title of the Course, Duration, Place)

Prof. Bhaskar Gupta

1. Advanced School of Antennas, Lecture on “Antenna Array Synthesis”, KIIT Bhubaneswar, 22-26 June 2018.
2. “Summer School on Antenna and Microwave Engineering (SUSAME) 2018”, sponsored by TEQIP III, NIT Silchar, 23-27 July 2018.

4. A. Books/Monographs etc. Published :(Name of the Teacher, Name of the Book, Name of the Publisher)

Books

Prof. Amit Konar

1. Amit Konar, Sriparna Saha, *Gesture Recognition-Principles, Techniques and Applications*, Studies in Computational Intelligence Book Series 724, Springer, ISBN 978-3-319-62210-1, pp. 1-272, 2018.

Prof. Bhaskar Gupta

2. Ekok Matra Magazine “Amar Gandhi Darshan” January 2019 issue.

Prof. Iti Saha Misra

3. Tamal Chakraborty, Iti Saha Misra, and Ramjee Prasad, *VoIP Technology: Applications and Challenges*, Springer Book Series on Wireless Communication, ISBN 978-3-319-3, August 2018.

Dr. Pratyusha Rakshit

4. Pratyusha Rakshit, Amit Konar, *Principles in Noisy Optimization- Applied to Multi-agent Coordination*, Cognitive Intelligence and Robotics Book Series, Springer, ISBN 978-981-10-8641-0, pp. 1-361, 2018.

Edited Volume

Dr. Jaydeb Bhaumik

1. J. Bhaumik, I. Chakrabarti, B. P. De, B. Bag, S. Mukherjee, “Proceedings of ICCDC 2017 on Communication, Devices, and Computing,” *Lecture Notes in Electrical Engineering*, Springer Nature, vol. 470, April 2018.

Book Chapters

Prof. Mrinal Kanti Naskar

1. “Realization of PSO-Based Adaptive Beamforming Algorithm for Smart Antennas,” in *Advances in Nature-Inspired Computing and Applications*, Springer, pp. 135-163, Feb 2019.
2. “PSO-Based Antenna Pattern Synthesis: A Paradigm for Secured Data Communications,” in *Nature-Inspired Algorithms for Big Data Frameworks*, IGI Global, pp. 218-245, Jan 2019.
3. “Preserving Security of Mobile Anchors Against Physical Layer Attacks: A Resilient Scheme for Wireless Node Localization,” in *Cryptographic Security Solutions for the Internet of Things*, IGI Global, pp. 211-243, Jan 2019.

Prof. P. Venkateswaran

4. S. Dhabal, R. Chakrabarti, and P. Venkateswaran, “Design of higher order quadrature mirror filter bank using simulated annealing-based multi-swarm cooperative particle swarm optimization,” in *Recent Trends in Signal and Image Processing, Advances in Intelligent Systems and Computing book series (AISC, volume 727)*, Springer, pp.1-10, April, 2018.

Prof. Sheli Sinha Chaudhuri

5. Sangita Roy, and Sheli Sinha Chaudhuri, "Fast single image haze removal scheme using self-adjusting: Haziness factor evaluation," in *International Journal of Virtual and Augmented Reality, IGI Global*, January 2019.
6. Sangita Roy, and Sheli Sinha Chaudhuri, "Low complexity single color image dehazing technique," in *Intelligent Multidimensional Data and Image Processing, IGI Global*, June 2018.
7. Sriparna Banerjee, Sangita Roy, and Sheli Sinha Chaudhuri, "Fuzzy logic and log-sigmoid function based vision enhancement of hazy images," in *Intelligent Systems and Applications, ASIC*, vol. 868, 2018.

Prof. Subir Kumar Sarkar

8. Bijoy Goswami, Disha Bhattacharjee, Dinesh Kumar Dash, Ayan Bhattacharya, and Subir Kumar Sarkar, "Drain doping engineering and its influence on device output characteristics and ambipolar conduction on a splitted-drain TFET model," in *Advances in Communication, Devices and Networking in Lecture Notes in Electrical Engineering*, vol. 537, Feb. 2019, 978-981-13-3450-4 pp. 21-27,

Prof. Sudipta Chattopadhyay

9. Subhabrata Banerjee, Sudipta Chattopadhyay, "A Novel Modified Ant Lion Optimizer Algorithm: Extension to Proposed 4D-TC", Chapter 6, *Swarm Intelligence*, vol. 2: Innovation, New Algorithms and Methods, 2018, IET, ISBN 978-1-78651-629-7, pp. 145-184, 2018.

Dr. Pratyusha Rakshit

10. Sriparna Saha, Pratyusha Rakshit, and Amit Konar, "Modified Type-2 Fuzzy Gesture Space Induced Physical Disorder Recognition," in *Computational Intelligence for Semantic Knowledge Management, Springer*, 2019, pp. 91-135.
11. Abhishek Ghosh Roy, and Pratyusha Rakshit, "Motion Planning of Non-Holonomic Wheeled Robots Using Modified Bat Algorithm," in *Nature-Inspired Algorithms for Big Data Frameworks, IGI Global*, 2019, pp. 94-124.

4. B. Articles Published in Journals: (Including National/International & Peer-reviewed Journals) (Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume)

Journals

Prof. Amit Konar

1. Diptendu Bhattacharya, and Amit Konar, "Self-adaptive type-1/type-2 hybrid fuzzy reasoning techniques for two-factored stock index time-series prediction," *Soft Computing*, vol. 22, September, 2018, pp. 6229-6246.
2. Arup Kumar Sadhu, Amit Konar, Tanuka Bhattacharjee, and Swagatam Das, "Synergism of firefly algorithm and Q-learning for robot arm path planning," *Swarm and Evolutionary Computation*, vol. 43, December 2018, pp. 50-68.

Prof. Ananda Shankar Chowdhury

3. V. N. Gangapure, S. Nanda, A.S. Chowdhury, "Superpixel based causal multisensor video fusion," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 28, no. 6, June, 2018, pp. 1263 - 1272.

Prof. Bhaskar Gupta

4. Sudipta Maity, Malay Gangopadhyaya, and Bhaskar Gupta, "Theory and experiment on horizontally inhomogeneous rectangular microstrip antenna," *IET Microwaves Antennas & Propagation*, vol. 13, no. 3, February 2019, pp. 352-359.
5. Buddhadev Pradhan, and Bhaskar Gupta, "A miniaturized band-reject filter using metamaterial structures on silicon substrate for X-band application," *IETE Journal of Research*, accepted for publication in Nov. 2018.

Annual Report 2018-19

6. Sudipta Maity, Malay Gangopadhyaya and Bhaskar Gupta, "45°–45°–90° Triangular Dielectric Resonator Antenna with Broadside Radiation Patterns," *AEÜ International Journal of Electronics and Communications*, vol. 94, pp. 51–54, Sept. 2018 .
7. Sudipta Maity, Rinki Ghosal, Malay Ganguly, and Bhaskar Gupta, "The complete model chart of cylindrical dielectric waveguide," *IET Electronic Letters*, vol. 54, no. 19, Sept. 2018.
8. Kaushik Patra, Sayantan Dhar, and Bhaskar Gupta, "Analysis of arbitrarily curved microstrip lines for radiated emission," *IEEE Transactions on Electromagnetic Compatibility*, vol. 60, no. 3, June 2018, pp. 572-579.
9. R. P. Ghosh, K. Patra, B. Gupta, and A. K. Chowdhury, "Accurate formula to determine resonant frequency of double sided printed dipole antenna," *IETE Journal of Research*, vol. 64, no. 3, May 2018, pp. 331-336.
10. Sudipta Maity, and Bhaskar Gupta, "Approximate theoretical investigations on isosceles triangular dielectric resonator antennas and experimental validation," *IEEE Transactions on Antennas and Propagation*, vol. 66, May 2018, pp. 2640-2643.

Prof. Chayanika Bose

11. Banibrata Bag, Akinchan Das, I. S. Ansari, A. Proke, Chayanika Bose, and Aniruddha Chandra, "Performance analysis of hybrid FSO systems using FSO/RF-FSO link adaptation," *IEEE Photonics Journal*, vol. 10, no. 3, June, 2018, pp. 1-17.
12. Supratik Sarkar, Samrat Sarkar, and Chayanika Bose, "Influence of polarization and self-polarization charges on impurity binding energy in spherical quantum dot with parabolic confinement," *Physica B : Condensed Matter, Elsevier*, vol. 541, July, 2018, pp. 75-78.
13. Samir K. Sadhukhan, Chayanika Bose, D. Saha, and A. K. Chattopadhyay, "Analytical study of a dual pointer based strategy for location update using Node B sojourn time in UMTS networks," *International Journal of Business Data Communications and Networking, IGI*, vol. 14, no. 2, July, 2018, pp. 44-70.
14. Madhupriya Samanta, Moumita Mukherjee, Uttam Kumar Ghorai, Samrat Sarkar, Chayanika Bose, and Kalyan K. Chattopadhyay, "Ultrasound assisted catalytic degradation of textile dye under the presence of reduced Graphene Oxide enveloped Copper Phthalocyanine nanotube," *Applied Surface Science, Elsevier*, vol. 449, August, 2018, pp. 113-121.
15. Akinchan Das, Banibrata Bag, Chayanika Bose, and Aniruddha Chandra, "Performance analysis of MIMO FSO link with Alamouti coding and switch-and-examine combining," *Photonic Network Communications, Springer*, vol.36, no. 3, December, 2018, pp. 350—360.

Prof. Iti Saha Misra

16. Tanumay Manna, and Iti Saha Misra, "Performance analysis of scheduled access mode of the IEEE 802.15.6 MAC protocol under non-ideal channel conditions," in *IEEE Transactions on Mobile Computing*, February, 2019. doi: 10.1109/TMC.2019.2901852.
17. Tanumay Manna, and Iti Saha Misra, "A prediction and scheduling frame- work in centralized cognitive radio network for energy efficient non-real time communication," *Communication Systems, Wiley*, vol. 31, no. 13, e3716, Sep. 2018.
18. Dulal Mandal, Arnab Maiti, and Iti Saha Misra, "Low cost portable solution for real time complete detection and analysis of heart sound components," *Springer Journal: Wireless Personal Communications*, vol. 105, no.4, March 2019, ISSN 0929-6212, DOI 10.1007/s11277-019-06287-0.

Prof. Manotosh Biswas

19. M. Biswas, and M. Sen, "Fast and accurate model for a coax-fed rectangular patch antenna with varying aspect ratio, feed location and substrate electrical parameters," *Journal of Electromagnetic Waves and Applications*, vol. 33, Dec. 2018, pp. 428-45.
20. M. Biswas, and M. Dam, "Closed-form model to determine the co-axial probe reactance of an equilateral triangular patch antenna", *International Journal of Microwave and Wireless Technologies*, vol. 10, May 2018, pp. 801-813.

Prof. Mrinal Kanti Naskar

21. "Signature-free watermark for protecting digital signal processing cores used in CE devices [Hardware Matters]," *IEEE Consumer Electronics Magazine*, vol. 8, no. 1, 2019, pp. 92-94, 10 December 2018.
22. "Optimizing DSP cores using design transformation [Hardware Matters]," *IEEE Consumer Electronics Magazine*, vol. 7, no. 4, 2018, pp. 91-94, June 2018.
23. "Wavelet and Curvelet transforms for biomedical image processing," *Handbook of Research on Information Security in Biomedical Signal Processing*, 2018, pp. 95-129, Aug 2018.

Prof. P. Venkateswaran

24. Sandhya Pattanayak, P. Venkateswaran, and R. Nandi, "Autocorrelation based spectrum sensing technique for cognitive radio application," *IEICE Communication Express*, Aug, 2018.
25. S. Dhabal, and P. Venkateswaran, "An improved global-best-guided cuckoo search algorithm for multiplierless design of two-dimensional IIR filters," *Circuits, Systems, and Signal Processing*, Springer, Vol. 38, No. 2, pp. 805–826. March, 2019.

Prof. Subir Kumar Sarkar

26. Arpita Ghosh, and Subir Kumar Sarkar, "Improved small-signal model of single-electron transistor," *IEEE Transactions on Nanotechnology*, vol. 17, no. 6, November 2018, pp. 1244-1251.
27. Anup Dey, Bikram Biswas, and Subir Kumar Sarkar, "Fabrication of Au-modified mixed metal oxide methane gas sensor and experimentation for better performance," *Sensor Letters, ASP*, vol. 17, no.2, March 2019, pp. 250-255.
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79. Shreya Shrestha Meel, Sayantan Adhikary, Pratyusha Rakshit, Amit Konar, and Atulya K. Nagar, "Multi-robot box-pushing using VIKOR induced particle swarm optimization," in *IEEE Symposium Series on Computational Intelligence (SSCI)*, 18-21 November, 2018, pp. 973-980.
80. Archana Chowdhury, Pratyusha Rakshit, Amit Konar, and K. Nagar Atulya, "Prediction of protein complexes using an evolutionary approach," in *IEEE Symposium Series on Computational Intelligence (SSCI)*, 18-21 November, 2018, pp. 1056-1063.

81. Pratyusha Rakshit, Amit Konar, and Atulya Nagar, “Self-adaptive sampling in noisy multi-objective optimization,” in *IEEE Symposium Series on Computational Intelligence (SSCI)*, 18-21 November 2018, 2018, pp. 2155-2162.

Prof. Bhaskar Gupta and Dr. Sayan Chatterjee

82. Amartya Banerjee, Sayan Chatterjee, Bhaskar Gupta, Anup Kumar Bandyopadhyay, “CPW-fed dual-polarized wide slot radiator for wireless applications,” in *URSI Asia Pacific Radio Science Conference (AP-RASC)*, New Delhi, March, 2019.

Prof. Subir Kumar Sarkar and Prof. Sudhabindu Ray

83. Savio Sengupta, Dipanjan Sen, Subhashis Roy, Sudhabindu Ray, and Subir Kumar Sarkar, “Analysis of four-stage charge pump circuit for UHF RFID tag design,” in *3rd International Conference, 2019 Devices for Integrated Circuits (DevIC)*, Kalyani Government Engineering College, West Bengal, India, March 23rd-24th, 2019.
84. Dipanjan Sen, Savio Jay Sengupta, Subhashis Roy, Sudhabindu Ray, and Subir Kumar Sarkar, “Impact Analysis of dual material double gate oxidestack junction-less MOSFET in RFID memory cell realization,” in *3rd International Conference, 2019 Devices for Integrated Circuits (DevIC)*, Kalyani Government Engineering College, West Bengal, India, March 23rd-24th, 2019.
85. Bikram Biswas, Anup Dey, Subhashis Roy, Sudhabindu Ray, and Subir Kumar Sarkar, “Pd Doped TiO₂ – CuO mixed metal oxide thin film sensor for H₂ sensing application,” in *3rd International Conference, 2019 Devices for Integrated Circuits (DevIC)*, Kalyani Government Engineering College, West Bengal, India, March 23rd-24th, 2019.
86. Savio Jay Sengupta, Dipanjan Sen, Subhashis Roy, Bikram Biswas, Sudhabindu Ray, and Subir Kumar Sarkar, “A novel approach for RFID based distributed security against physical access of university data” *International Conference in Recent Trends on Electronics And Computer Science (ICRTECS)*, NIT Silchar, Assam, India, March 18-19, 2019.

5. Collaborative Programmes:

Prof. Ananda Shankar Chowdhury

1. With Prof. Atulya K. Nagar of Liverpool Hope University, UK
2. With Prof. Anca L. Ralescu of University of Cinnati
3. With Prof. Lakhmi C. Jain of University of South Australia, Adelaide
4. With Mohan S. Kankanhalli, National University of Singapore, Singapore on “A Game-theoretic Model of Relative Saliency”
5. With Alexandre X. Falcao, University of Campinas, Brazil on “A Graph-theoretic approach for Superpixel Generation”
6. With Michael H.F. Wilkinson, Bernoulli Institute of Mathematics and Computer Science, University of Groningen, The Netherlands on “Connected Filters and Graph Morphology in Image Analysis”

Prof. Bhaskar Gupta

7. National Symposium/Workshop on “Applications of Engineering and Technology towards Sustainable Growth” (The Event is a curtain-raiser of World Environment Day Programme) in collaboration with Vivekananda Institute of Environment & Management held on 4th June, 2019

Prof. Iti Saha Misra

8. With Prof. Ramjee Prosad, Aarhus University, Herning, Denmark

Prof. Subir Kumar Sarkar

9. With Prof. Supriyo Bandyopadhyay of Virginia Commonwealth University, USA in the field of Spintronics

Annual Report 2018-19

10. With Dr. Partha Bhattacharya of Indian Institute of Engineering Science and Technology, Shibpur (formerly BESU) on nanodevices
11. With Dr. Ashish Kumar De and Prof. B. Maji of National Institute of Technology, Durgapur
12. With Mr. Pranab Kishore Dutta and Mr. Swanirbhar Majumder of North Eastern Regional Institute of Science and Technology (NERIST)
13. With Dr. N. B. Singh of Manipur Institute of Technology

6. Major Achievements:

Prof. Amit Konar

1. Editor-in-Chief, Springer book series on Cognitive Intelligence and Robotics for the period: April 2018 to March 2019
2. Associate Editor, IEEE Trans. on Fuzzy Systems for the period: April 2018 to March 2019
3. Associate Editor, IEEE Trans. on Emerging Trends in Computational Intelligence for the period: April 2018 to March 2019

Prof. Ananda Shankar Chowdhury

4. Associate Editor, *Springer Nature Computer Science* (2019)
5. Outstanding Reviewer, *Pattern Recognition and Pattern Recognition Letters* (2018)
6. Associate Editor, *IEEE Signal Processing Letters* (continued from 2017)
7. Associate Editor, *Pattern Recognition Letters* (continued from 2018)

Prof. Bhaskar Gupta

8. Participated in Academic Audits of NIT Patna, June 06, 2018

Prof. Iti Saha Misra

9. Elected as the VICE Chair of IEEE Kolkata Section, Jan 2019
10. Obtained IEEE ComSoc Best Chair Award, Jan 2019
11. Best paper award for “Developing a 3D Beam Former Model with Varied MIMO Channels,” in *International Conference on Advanced Computational and Communication Paradigms-2019*, 25th to 28th Feb., 2019, Sikkim Manipal Institute, Majiter.
12. Directors Nominee of BOS , Heritage Institute of Technology
13. Board of Governor Member of Tripura University
14. BOS Member of BIT, MESRA, Ranchi

Prof. Sheli Sinha Chaudhuri

15. Acted as an expert in the selection committee for selection of Junior Mentor at Digha Science Centre under the Birla Industrial and Technological Museum, Kolkata, March 19, 2019

Prof. Subir Kumar Sarkar

16. Invited several times as one of the expert members in various National Level Accreditation Board, April 2018, June 2018, August 2018.
17. Has 3 foreign trips having been invited by :
 - School of Computing, Engineering and Mathematics of Western Sydney University, Australia to deliver an invited speech in a seminar on 18th March 2019
 - School of Electrical and Data Engineering, Faculty of Engineering and IT of University of Technology Sydney, Australia to deliver a guest seminar lecture on 12th March 2019
 - Macquarie University, Sydney, Australia to deliver seminar presentation on 11th March 2019

18. Best Paper Awards:

- Sutanni Bhowmick, M.Tech student, under the supervision of Prof. Subir Kumar Sarkar, has been awarded Best Paper Award for the paper entitled, “Implementation of L-shaped Double Metal Dual Gate TFET towards Improved Performance Characteristics and Reduced Ambipolarity” in *Information, Photonics and Communication 2019 (IPC'19)*, 1st-3rd February, 2019, organized by Department of Electronics and Communication Engineering in association with SPIE Student Chapter, B. P. Poddar Institute of Management and Technology (BPPIMT), Kolkata (WIE Best Student/Research Scholar Paper Awarded).
- Dinesh Kumar Dash, PhD Research Scholar (QIP Engg.) under the supervision of Prof. Subir Kumar Sarkar, has been awarded Best Paper Award for the paper entitled “Analytical Modeling of Graded Metal Graded Dielectric Silicon-On-Nothing TFET –A Comparative Study” in *IEEE International Conference on Computing, Power and Communication Technologies (GUCON)2018*, 28th-29th September, 2018, Greater Noida, Uttar Pradesh, India.

Prof. Sudipta Chattopadhyay

19. Chairperson, IEEE WIE Kolkata Section, since 2017
20. Secured the 1st Place as Chairperson, WIE Kolkata Section, under the WIE Track in the All India Student – YP –WIE Congress (AISYWC'18) organized by IEEE India Council and IEEE Bangalore Section held at Vidya Vikas Institute of Engineering and Technology, Mysore, between September 28 - 30, 2018.
21. Member of Academic Council, Siksha O Anusandhan Deemed to be University, Bhubaneswar.

Dr. Sayan Chatterjee

22. Appointed as IEEE EXECOM member in January 2019
23. Appointed as member of Institutional innovation Council, January 2019 onwards Jadavpur University
24. Member of TEQIP–III (2018-19) Internal core committee, Jadavpur University
25. Member of Improved Student learning Central committee under TEQIP-III (2018-19), Jadavpur University

Dr. Pratyusha Rakshit

26. Awarded International Travel Support to present paper in 2018 IEEE World Congress on Computational Intelligence at Rio de Janeiro, Brazil by Science and Engineering Research Board, a statutory body under Department of Science and Technology, Ministry of Science and Technology, Government of India
27. Treasurer and EXECOM member, IEEE Computational Intelligence Society, Kolkata (since 2017)

FOOD TECHNOLOGY & BIO-CHEMICAL ENGINEERING

Phone : + 91-33-2414-6822
Int. : 2457-2241/22
H.O.D. : Prof. Uma Ghosh
Dr. Dipankar Halder(w.e.f.01.02.2019)
E-mail : hodftbe@jadavpuruniversity.in

1. **A. Courses Offered:** B.E – 4 yr, Intake : 40/yr
M.Tech - 2 yr, Intake : 10 / yr.
Ph.D - 34 (Total strength)

B. Number of Faculty Members: 07 (Sanctioned post - 15)

2. **A. Area of Research Activities:**

Food fortification, drying; Solid state fermentation, enzymes , antioxidants, Green Technologies of Extraction, Nutraceuticals, Edible Oils and Frying Applications, Electronic Nose Applications in Agro Commodities, Environment benign synthesis of metal nanoparticles and their application in waste water treatment ,food safety and food packaging, food adulteration, cold plasma technology, nanoparticle in agriculture, Bioremediation, fermented food, enzyme technology.

2. **B. Major Research Project:**

- Individual R&D project entitled, ‘Studies on prevention of Diabetes Mellitus, Hypercholesterolemia and Alzheimer’s disease using nanoencapsulated supercritical carbon dioxide extracts of small cardamom’ from Product Development & Research, from Spices Board, Cochin, Ministry of Commerce and Industry, Govt. of India.
- Individual R & D Project on ‘Traditional fermented foods of Ladakh region: Standarization of process parameters.’ Funded by DST, Govt of India.
- Individual R & D Project on “Isolation and Identification of a Phytase Producing Probiotic Bacteria from Jalebi Batter and its Application to Soy Milk Fermentation”, UGC.
- Individual R & D Project on ‘Fortification of Bread using green banana Peel Flour and Cumin Seeds’ Funded by RUSA 2.0. Amount 6.2 Lakhs.
- Departmental R & D Project on ‘Development of Fruit- Vegetable based Nutraceutical Products. Part (a) Development of a vegetable based bakery product; Part (b) a Nanoliposomal Natural Food Antioxidant from a vegetable Source; Part (c) Plasma sterilised fruit- vegetable products. Funded by RUSA 2.0.
- Individual R & D Project on ‘Sustainable green technology for development of a food supplement based on antioxidant synergy of serotonin, melatonin and L-tryptophan from supercritical carbon dioxide extract of gamma irradiated tomatoes’. Funded by RUSA 2.0.
- Individual R & D Project on ‘Studies on γ -irradiation of lutein and serotonin-melatonin rich agro-commodities for extension of shelf lives of the produces and design of novel therapeutic/food supplements using the irradiated produces’, funded by Department of Food Processing Industries and Horticulture, Govt. of West Bengal.
- Individual R & D Project for Irradiation Unit assisting (i) Food Processing Industries (ii) R & D in new areas of Irradiated Food (iii) Training Centre for Food Irradiation especially for Eastern & North Eastern Region, from Ministry of Food Processing Industries, Govt. of India, New Delhi and Department of Food Processing Industries & Horticulture, Govt. of West Bengal.
- Individual R & D Project on “Ultra high temperature processing electrical energy heating” sponsored by Ministry of Food Processing Industries, Govt. of India, New-Delhi and Department of Food Processing Industries & Horticulture, Govt. of West Bengal.

Annual Report 2018-19

- Individual R & D Project on “Sustainable synthesis of Ag and Au nanoparticles ... (microorganism, antibiotic and protein) present in food” . Sponsored by RUSA 2.0.
- Departmental R & D Project on “Environment benign synthesis..contaminated with dyes and pesticides” Sponsored by RUSA 2.0.
- Individual R & D Project on “Strategic assessment of traditional Bandel Cheese and its production for economic development of local people”. DST-Govt of W.B.,
- Individual R & D Project on “Performance Modeling of a Combined System of Phycoremediation with a Fixed Film Bioreactor for the Treatment of Dairy Industry”, from Science and Engineering Research Board (SERB).
- Individual R & D Project on “Fermentative production of microbial Asparaginase enzyme and its application to high temperature Processed Foods for Acrylamide mitigation”, from DHESTBE, Govt. of West Bengal.
- Individual R & D Project on “Bioremediation of Phenolic compounds from Waste Water using Isolated Microbial Strains” funded by RUSA 2.0.

3. A. Invited lectures Delivered/Sessions Chaired:

Dr. Dipankar Halder

- National seminar “MCCCON 2019” on “Academia-Industry Meets Industrial Process” on 5th - 6th February, 2019 at MIDNAPORE CITY COLLEGE, Paschim Medinipur- 721129, WB

Dr. Prasanta Kumar Biswas

- National seminar on “Effects of Pesticides and Food Adulteration on Human Health” H L Ray Building, Jadavpur University Campus, Kolkata, on 25th May 2019.
- 1st Agrochemicals Congress: Country’s Status on Various Fronts of Agrochemicals during November 13-16, 2019 at ICAR-IARI, New Delhi.

Dr. Paramita Bhattacharjee

- Invited talk on ‘Application of Supercritical Fluid Extraction as a Non-Thermal Processing Technology for Food Flavors and Fragrances’, Talk for UG students of Department of Biotechnology, University of Engineering and Management (UEM), Kolkata, March 11, 2019.
- Invited talk on ‘Gamma Radiation Processing of Agro Commodities for New Product Development’, *One day Seminar on Modern Food Processing Technology and Innovative Food Product Development (Sampriti 2019)*, organized by the Department of Food Technology, Techno India, Salt Lake, Kolkata, February 23, 2019.
- Invited talk on ‘Is 1,8-cineole, the bioactive principle of small cardamom seeds the new molecule for mitigating oxidative stress disorders? Investigations on efficacies of supercritical carbon dioxide extract of this biomolecule and its nanoliposomal formulation’, *International Conference on Technological Innovations for Integration of Food and Health: A Focus on North-Eastern India (TiiFH-2019)*, organized by the Department of Food Engineering & Technology in association with AFSTI, Tezpur University, Tezpur, February 14-16, 2019.
- Invited talk (guest lecture) on ‘Can nanoliposomes of supercritical carbon dioxide extracted spiceticals of yellow mustard and small cardamom seeds be natural alternatives of statin in redressing hypercholesterolemia? *Asian Symposium on Medicinal Plants, Spices, and other Natural Products XVI (ASOMPS XVI 2018)*, BMICH & Galadari Hotel, Colombo, Sri Lanka, December 12-14, 2018.

Dr. Debabrata Bera

- National seminar on ‘Functional components in marine sources’, Vidyasagar University, 2019.

Dr. Sunita Adhikary (Nee Pramanik)

- Invited Lecture Delivered at ‘One day Workshop on Exploring Opportunities in Food Processing Technology (EOFPT-2019)’ organized by WBSCT&VE&SD, on 6th Feb, 19.

Annual Report 2018-19

- Invited Lecture on “Pesticides and Food Adulterations-Effect on Human Health” organized by Development Research Communication & Services Centre Joint Collaboration with AFSTI Kolkata Chapter on 25th May, 19.

3. B. Seminar/Workshop/Conference/Symposium Attended:

Prof. Runu Chakraborty

- Presentation on ‘Evaluation of Three Different Drying Methods Effect on Polyphenol Content, Flavonoid Content, Antioxidant Activity, Antimicrobial Activity and Color of *Camellia assamica*,’ by Abhijit Das, Runu Chakraborty and Utpal Raychaudhuri; 8th International Food convention on Holistic Approaches for Start-Ups, Human Resource Training for Agriculture and Food Industry Gemination (HASHTAG), December 12-15, 2018 at CSIR-CFTRI, Mysore, India, organized by Association of Food Scientists & Technologists (India).

Prof. Uma Ghosh

- Presentation on a statistical approach for the enhanced production of alkaline protease from isolated strain *Alternaria alternat* TUSGF1 utilization of agro waste; Tapasi polley and Uma Ghosh, 2nd International conference on biotechnology & biological sciences, 2018.
- Presentation on “A Review on the effect of drying techniques on antioxidant potential of fruits and vegetables” in National Symposium on “Role of Resource Management in agriculture in the context of Food Security, Nutrition and Economy”, Arjuma Sultana, Uma Ghosh. The Agriculture Society of India, University of Calcutta, December 15-17, 2018.
- Paper titled ‘Nanotechnology: Approach to combat biofilm especially in food and medical sector’; Sarkar S, Mitra A, Halder D; NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019.
- Paper titled ‘Synthesis of silver nanoparticle...in combination with antibiotic’ Ghosh M, Mitra A, Halder D; NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019.
- Paper titled ‘Yeast extract mediated synthesis ... in contaminated water samples’, Chakraborty S, Mitra A, Halder D; NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019.

Dr. Dipankar Halder

- Paper titled “Synthesis of Silver Nanoparticles ... and their antimicrobial activity- A comparative study”; Dinda, G.; Halder, D.; Mitra, A. ; (NCRDNN2019), Jadavpur University, 29-31st January 2019.
- Paper titled “Plant-Mediated Synthesis of Silver Nanoparticles ...Catalytic Applications”; Dinda G, Mitra A, Halder D; International Conference on Chemistry for Human Development (ICCHD 2018), organized by Calcutta University, Kolkata.
- Paper titled ‘Removal of textile dye ...biomass of *Aspergillus niger*’; Bag S, Mitra A, Halder D, Bera D, NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019.
- Paper titled ‘Nanotechnology : Approach to combat biofilm especially in food and medical sector’; Sarkar S, Mitra A, Halder D; NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019.
- Paper titled “Synthesis of silver nanoparticle ... in combination with antibiotic”, Ghosh M, Mitra A, Halder D; NATCOSEB 2019, Amity University , Rajarhat, 18-20 October, 2019.
- Paper titled “Yeast extract mediated synthesis ... in contaminated water samples” Chakraborty S, Mitra A, Halder D; NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019.

Dr. Paramita Bhattacharjee

- ‘A new biomedicine from yellow mustard seeds for curing Type-2 diabetes’, Soumi Chakraborty, Dipshikha Tamili (Paramita Bhattacharjee as mentor), Oral-cum-Poster presentation at *Anveshan: National Student Research Convention 2018*, under the category Health Science & Allied Sciences, organized by the Association of Indian Universities, New Delhi and hosted by Ganpat University, Gujarat, March 12-14, 2019.

Annual Report 2018-19

- ‘A new biomedicine from yellow mustard seeds for curing Type-2 diabetes’, Soumi Chakraborty, Dipshikha Tamili (Paramita Bhattacharjee as mentor), Poster-cum-Oral presentation at East Zone Inter-University Research Convention *Anveshan 2018-19*, under the category Basic Science, organized and hosted by Central University of Jharkhand, Ranchi, under the aegis of Association of Indian Universities (AIU), New Delhi, February 18-19, 2019.
- ‘Can nanoliposomes SC-CO₂ extract of small cardamom seeds be a new biotherapeutic for type 2 diabetes?’, Kaninika Paul, SoumiChakraborty, Paramita Bhattacharjee, Nilendra Chatterjee and Tapan Kumar Pal, Poster Presentation at National Conference on *Recent Developments in Nanoscience & Nanotechnology*, organized by the School of Materials Science and Nanotechnology, Jadavpur University, January 29-31, 2019.
- ‘Efficacy of nanoencapsulated supercritical carbon dioxide extract of small cardamom seeds in combating Type-II diabetes: *In vitro* characterization and *in vivo* rat model study’, Kaninika Paul, Soumi Chakraborty, Paramita Bhattacharjee, Nilendra Chatterjee and Tapan Kumar Pal, Poster Presentation at *IUFOST 2018 (India), 19th World Congress of Food Science and Technology*, CIDCO Exhibition Centre, Mumbai, October 23-27, 2018.
- ‘Gamma-irradiation of yellow corn (*Zea mays*) kernels post packaging enhances lutein content and shelf life’, Sayani Pal, Soumi Chakraborty and Paramita Bhattacharjee, Poster Presentation at *IUFOST 2018 (India), 19th World Congress of Food Science and Technology*, CIDCO Exhibition Centre, Mumbai, October 23-27, 2018.
- ‘Does melatonin-rich mustard seed extract prevent hypercholesterolemia? *In vivo* rat model and molecular docking studies’, Soumi Chakraborty, Dipan Chatterjee, Paramita Bhattacharjee*, Shrabani Pradhan, Koushik Das, Dilip Kumar Nandi and Dipankar Chaudhuri, Poster Presentation at *National Symposium on Promotion & Development of Indian Medicinal Plants*, Special reference - Brahmi (*Bacopamonnieri*) on the occasion of the 5th Convention of Society for Ethnopharmacology (SFE)-India, organized by SFE, Kolkata, India, Jadavpur University Main Campus, Kolkata, September 7-8, 2018.
- ‘Efficacy of 1,8-cineole-rich supercritical carbon dioxide extract of small cardamom seeds in preventing Alzheimer’s disease’, Kaninika Paul, Paramita Bhattacharjee and Sasanka Chakrabarti, Poster Presentation at *National Symposium on Promotion & Development of Indian Medicinal Plants*, Special reference - Brahmi (*Bacopamonnieri*) on the occasion of the 5th Convention of Society for Ethnopharmacology (SFE)-India, organized by SFE, Kolkata, India, Jadavpur University Main Campus, Kolkata, September 7-8, 2018.
- ‘Role of 1,8-cineole-rich supercritical carbon dioxide extract of small cardamom seeds in combating type-II diabetes and Alzheimer’s disease: Rat model, iHOMA2, SHSY5Y cell line and molecular docking studies’, Soumi Chakraborty, Kaninika Paul, Paramita Bhattacharjee and Sasanka Chakrabarti, Poster Presentation at *National Symposium on Human Biology: Newer Perspectives*, organized by Central Calcutta Society for Advancement of Human Development and Research on the occasion of its 25th Foundation Day in collaboration with Bose Institute, Kolkata & sponsored by the Department of Biotechnology, Govt. of West Bengal, at Centenary Campus, Bose Institute, Kolkata, July 23, 2018.

Dr. Debabrata Bera

- Paper titled ‘Removal of textile dye ...biomass of *Aspergillus niger*’; Bag S, Mitra A, Halder D, Bera D, NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019.
- Paper titled ‘Nanotechnology: Approach to combat biofilm especially in food and medical sector’; Sarkar S, Mitra A, Halder D; NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019.
- Paper titled ‘Synthesis of silver nanoparticle ... in combination with antibiotic’ Ghosh M, Mitra A, Halder D; NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019.
- Paper titled ‘Yeast extract mediated synthesis ... in contaminated water samples Chakraborty S, Mitra A, Halder D; NATCOSEB 2019, Amity University, Rajarhat, 18-20 October, 2019

Dr. Sunita Adhikary Nee Pramanik

- Najmun Nahar, Sunita Adhikari (Nee Pramanik), Utpal Raychowdhury “Characterization of black gram nuggets (Bori): Traditional product of Midnapore district, West Bengal, India”. Oral presentation of the paper at BIOSPECTRUM, 2018 organized by UEM, Kolkata during 27th - 28th July, 2018.
- Abhishek Das, Pradyut Kundu, Sunita Adhikari (Nee Pramanik), “Characteristics and Treatment of Dairy Industry Wastewater in a Suspended Growth Batch Reactor”. Oral presentation of the paper at ATIPC – 2018 organized by Indian Institute of Engineering Science & Technology (IIEST), Shibpur, Howrah, W.B. during December 17th – 19th 2018.
- Paper titled “Nanotechnology : Approach to combat biofilm especially in food and medical sector”; Sarkar S, Mitra A, Halder D; NATCOSEB 2019, Amity University , Rajarhat, 18-20 October, 2019.
- Paper titled “Synthesis of silver nanoparticle ... in combination with antibiotic” Ghosh M, Mitra A, Halder D; NATCOSEB 2019, Amity University , Rajarhat, 18-20 October, 2019.
- Paper titled “Yeast extract mediated synthesis ... in contaminated water samples” Chakraborty S, Mitra A, Halder D; NATCOSEB 2019, Amity University , Rajarhat, 18-20 October, 2019.

3. C. Seminar/Workshop/Conference/Symposium Organized:

Dr. Prasanta Kumar Biswas:

- National seminar on “Effects of pesticides and Food Adulteration on human Health” H L Ray Building, Jadavpur University Campus, Kolkata, 25th May 2019.

3. E. Orientation Courses/Refresher Courses Organized:

Prof. Uma Ghosh, Dr. Debabrata Bera & Dr. Sunita Adhikary (Nee Pramanik)

- UGC Sponsored Refresher Course on “Recent Advancement in Food and Bioprocess Technology” organised at Dept. of FTBE, JU from 02.01.2019 to 22.01.2019

4. A. Books/Monographs etc. Published:

Dr. Paramita Bhattacharjee

- Paramita Bhattacharjee and Soumi Chakraborty, “Neurotransmitters in Edible Plants. Implications in Human Health,” In: *Neurotransmitters in plants: Perspectives and Applications*, A Ramakrishna and VV Roshchina (Eds.), Chapter 22, pp. 387-407, CRC Press, BocaRaton, 2019.
- Paramita Bhattacharjee and Sayantani Dutta, “Assessment of Quality of Confectionery Products using Electronic Nose Technology,” In: *Bioprocessing Technology in Dairy and Food*, D.K Verma and P.P. Srivastav (Eds.), Apple Academic Press, USA, in Press, 2019.
- Paramita Bhattacharjee, Kaninika Paul and Sayantani Dutta, “Supercritical Carbon dioxide Extraction of Piperine: A Green Extraction Method for Biomolecule of Therapeutic Importance”, In: *Emerging Thermal and Non-thermal Technology in Food Process Engineering*, D.K Verma and P.P. Srivastav (Eds.), Apple Academic Press, USA, in Press, 2019.

Dr. Debabrata Bera.

- Lakshmishri Roy, Debabrata Bera, Sunita Adak, “Mycosynthesized Nanoparticles: Role in Food Processing Industries”, *Fungal Nanobionics: Principles and Applications* 287-316, 2019.

Dr. Sunita Adhikary (Nee Pramanik)

- Mausumi Ray, Pradyut Kundu, Sunita Adhikari (Nee Pramanik), Chapter on “Isolation and Characterization of Microbial Asparaginase to Mitigate Acrylamide Formation in Food” published as book chapter (Chapter No. 13), pp no. 95-100 in *Advances in Plant & Microbial Biotechnology*. ISBN: 978-981-13-6321-4, Springer Publisher.
- Abhishek Das, Pradyut Kundu, Sunita Adhikari (Nee Pramanik), Chapter on “Bioremediation of Wastewater Using Microalgae” Publication as Book Chapter (Chapter: 8), pp no. 55-60 in *Environmental*

Annual Report 2018-19

Biotechnology for Soil and Wastewater Implications on Ecosystems, ISBN: 978-981-13-6321-4, Springer Publisher.

4. B. Articles published in Journals:

Prof. Runu Chakraborty

- Suman Kumar Saha, Suhrita Dey and Runu Chakraborty “Effect of microwave power on drying kinetics, structure, colour and antioxidant activities of Corncob” accepted for publication in *Journal of Food Process Engineering*, publisher Wiley Blackwell Science, UK 17 Jan, 2019.
- Runni Mukherjee, Abhishek Datta and Runu Chakraborty. “Soaking of Soybean Meal: Evaluation of Physicochemical Properties and Kinetic Studies”. *Journal of Food Measurement and Characterisation*. Publisher: Springer. 13(1), 390-403. DOI 10.1007/s11694-018-9954-6.

Prof. Uma Ghosh

- Ipsita Banerjee Uma Ghosh, “Effect of pretreatment on drying attributes and quality assessment of bael powder” *International Journal for Research in Engineering Application & Management(IJREAM)*. Vol-04, Issue-08, Nov2018.
- Ipsita Banerjee Uma Ghosh, “Effect of thermal treatment on phenolic and antioxidant content of fresh bael juice” *International Journal of agricultural Engineering*. Vol-11, Issue-2, Oct2018, 282-288.
- Polley T, Ghosh U. “Optimization of Process Parameters for Production of Alkaline Protease by OVAT Method Using Isolated Strain *Alternaria alternata* TUSGF1”, *Asian Food Science Journal*, vol. 9 (4):1-8, 2019.
- Ray S., Mukherjee A., Ghosh U.2018. Selection and Utilization of Food waste Bagasse for fermentation using *saccharomyces cerevisiae*. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 9(6), 1329 -1337.

Dipankar Halder

- “Therapeutic applications of mushrooms and its compositional analysis by high throughput screening techniques”; Chatterjee D, Das S, Halder D; *IJPSR*, 10(8) (2019) : 1000-11.
- “Phytosynthesis of silver nanoparticles using *Zingiber officinale* extract: evaluation of their catalytic and antibacterial activities”; Dinda, G., Mitra, A., Pal, N., Chatteraj D K; *J of disper. Sc. Tech*. <https://doi.org/10.1080/01932691.2019.1653194>.
- “Anti-biofilm activity and food packaging application of room temperature solution process based polyethylene glycol capped Ag-ZnO-graphene nanocomposite”; Naskar A, Khan H, Sarkar R, Kumar S, Jana S, Halder D; *Materials Science and Engineering C*; 91 (2018) 743–753.
- Synthesis of Gold Colloid Using *Zingiber officinale*: Catalytic Study; Dinda, G., Mitra, A., Halder, D. *Nano Mat ChemBio Dev* ; 1 (1) (2018): 1-6.
- “Antimycobacterial activities of an edible mushroom extract and its synergy with the standard antituberculous drugs”; Chatterjee D, Das S, Halder D; *Journal of Clinical and Diagnostic Research*. 12(6)(2018) : 37-41.
- “Fruit extract capped colloidal silver nanoparticles and their application in reduction of methylene blue dye”; Swargiary M, Kumar S, Mitra A, Halder D; *Biocatalysis and Biotransformation* ; <http://dx.doi.org/10.1080/10242422.2018.1508283>; 2018.

Dr. Prasanta Kumar Biswas :

- “Complementary feeding may pose a risk of simultaneous exposures to aflatoxin M1 and deoxynivalenol in Indian infants and toddlers: Lessons from a mini-survey of food samples obtained from Kolkata, India”; *Food and Chemical Toxicology*, 123 (2019) 9-15.

- Name of article: “Zinc sulphide nanoparticle (nZnS): A novel nano-modulator for plant growth”; *Plant Physiology and Biochemistry*, 142 (2019) 73-83.

Dr. Paramita Bhattacharjee

- Sayani Pal and Paramita Bhattacharjee, “Lutien-fortified potato soup and freeze-dried lutein powder designed with supercritical carbon dioxide extract of yellow corn kernels are promising nutraceutical foods”, *Journal of Food Processing and Preservation*, DOI: 10.1111/jfpp.14005, 2019.
- Kaninika Paul, Paramita Bhattacharjee, Nilendra Chatterjee and Tapan Kumar Pal, “Nanoliposomes of supercritical carbon dioxide extract of small cardamom seeds redresses Type 2 diabetes and hypercholesterolemia”, *Recent Patents on Biotechnology*, 13: 1-20, DOI: 10.2174/1872208313666190404101336, 2019.
- Soumi Chakraborty and Paramita Bhattacharjee, “Design of lemon-mustard nutraceutical beverages based on synergism among antioxidants and *in vitro* antioxidative, hypoglycaemic and hypocholesterolemic activities: Characterization and shelf life studies”, *Journal of Food Measurement and Characterization*, DOI: 10.1007/s11694-018-9826-0, 2018.
- Kaninika Paul and Paramita Bhattacharjee, “Process optimization of supercritical carbon dioxide extraction of 1,8-cineole from small cardamom seeds by response surface methodology: In vitro antioxidant, antidiabetic and hypocholesterolemic activities of extracts”, *Journal of Essential Oil Bearing Plants*, DOI: <https://doi.org/10.1080/0972060X.2018.143406>, 2018.
- Kaninika Paul and Paramita Bhattacharjee, “Mass transfer and hydrodynamic study of supercritical carbon dioxide extraction of 1,8-cineole from small cardamom seeds”, *Chemical Engineering Communications*, DOI: <https://doi.org/10.1080/00986445.2018.1428959>, 2018.
- Anupama Bose and Paramita Bhattacharjee, “Development of a new equation in fuzzy logic analysis for ascertaining appropriate dose of gamma irradiation of virgin coconut oil”, *Methods X*, 2018.
- Sayani Pal and Paramita Bhattacharjee, “Polypropylene-based packaging materials for shelf-life enhancement of yellow corn (*Zea mays*) kernels: Effects on lutein, aflatoxin content, sensory and nutritional profiles”, *Journal of Food Processing and Preservation*, DOI: 10.1111/jfpp.13618, 2018.

Dr. Debabrata Bera

- Papan K. Hor, Mousumi Ray, Shilpee Pal, Kuntal Ghosh, Jyoti P. Soren, Smarajit Maiti, Debabrata Bera, Somnath Singh, Sanjay Dwivedi, Miklós Takó, Pradeep K. Das Mohapatra and Keshab C. Mondal. *Some Functional Properties of khambir, an Ethnic Fermented Cereal-Based Food of Western Himalayas*, *Frontier in Microbiology*, 2019.

Dr. Sunita Adhikary (Nee Pramanik)

- Abhishek Das, Pradyut Kundu, Sunita Adhikari (Nee Pramanik), “Characteristics and Treatment of Dairy Industry Wastewater in a Suspended Growth Batch Reactor” Research Paper accepted for publication in *International Journal of Environment and Waste Management*.

5. Collaborative Programmes:

- Research collaboration with Peerless Hospital and B K Roy Research Centre, Kolkata.
- Environmental Health Sciences, Arnold School of Public Health, University of South Carolina, Columbia, SC, 29208, USA.
- Research collaboration with C-DAC, Kolkata.
- Research collaboration with Dept. of Biochemistry, M M Institute of Medical Sciences & Research, M M (Deemed to be) University, Haryana.
- Research collaboration with Dept. of Nutrition, Vidyasagar University.

Annual Report 2018-19

6. Major achievements:

- Paper titled “Evaluation of the Effect of Fermentation on Protein and Phenolic Profiles of Soybean Meal” by Runni Mukherjee, Abhishek Dutta and Runu Chakraborty won the best paper award in the 2nd International Conference on Biotechnology & Biological Sciences, ‘Biospectrum 2018’ at University of Engineering & Management, Kolkata on 27th-28th July, 2018.
- Received Venus International Faculty Awards-VIFA 2019, ‘Distinguished Faculty in Engineering’ Award during the 5th Contemporary Academic Meet (CAM 2019).
- Patent awarded : Paramita Bhattacharjee and Dipan Chatterjee, Indian Patent No. 295801(217/KOL/2012) granted and recorded in the Register of Patents on April 16, 2018 on ‘Natural colorant from peels of egg plants’,
- Third position for the research paper entitled ‘A new biomedicine from yellow mustard seeds for curing Type-2 diabetes’, by Soumi Chakraborty, Dipshikha Tamili (Paramita Bhattacharjee as mentor), at *East Zone Inter-University Research Convention Anveshan 2018-19*, under the aegis of Association of Indian Universities (AIU), New Delhi, February 18-19, 2019.
- Selected Poster Award for the research paper entitled ‘Efficacy of nanoencapsulated supercritical carbon dioxide extract of small cardamom seeds in combating Type-II diabetes: *In vitro* characterization and *in vivo* rat model study’, Kaninika Paul, Soumi Chakraborty, Paramita Bhattacharjee, Nilendra Chatterjee and Tapan Kumar Pal, Poster Presentation at *IUFOST 2018 (India), 19th World Congress of Food Science and Technology*, CIDCO Exhibition Centre, Mumbai, October 23-27, 2018.

INFORMATION TECHNOLOGY

(SALT LAKE CAMPUS)

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E-mail : hodit@jadavpuruniversity.in

1. A. Courses Offered

Name of the Course	Duration of the Course	Annual Intake	Year of Inception
B.E.(Information Technology)	4 years degree course	86	2000
M.E (Software Engineering)	2 year degree course	25	2002
6-Semester M.E.(Software Engineering)	3 year degree course (Evening)	20	2004

for TCS sponsored students

1. B. Number of Faculty Members:

Professor: 02 (Sanctioned: 01)

Associate Professor: 03 (Sanctioned: 01)

Assistant Professor: 02 (Sanctioned 05)

Assistant Professor (Contractual): 09

2. A. Area of Research Activities: (Broad Area)

All teachers are actively engaged in research activities. The thrust areas of the department may be classified as follows:

- I. Image processing, Video Compression, Pattern Recognition
- II. Distributed Object Computing, Middleware
- III. Middleware in Mobile Computing, Mobile Ad hoc Networks
- IV. Artificial Intelligence, Machine Learning
- V. Network Architecture, Routing Protocols
- VI. Parallel Processing, Cryptography and Network Security, Distributed Computing
- VII. Data Mining and Knowledge Discovery, Cloud Computing, Biodiversity
- VIII. Bioinformatics, Audio processing, RFID, Sensor Networks
- IX. Distributed Algorithms & Swarm Robotics.
- X. Mobile Computing, Vehicular Networks

2. B. Major Research Project/Consultancy :(Departmental / Individual–Name of the project–Investigator/Coordinator–Funded Agency)

Individual–Distributed Cloud Systems–Samiran Chattopadhyay [PI], Kartick Chandra Mondal [Co-PI]–DST-PURSE II

Individual–Integration of Data Analysis and Data Mining with ERP Data Warehouse of Heterogeneous Data Generated from ERP Information System–Prof Samiran Chattopadhyay[PI]Kartick Chandra Mondal[Co-PI]–CARS, DRDO

Individual–Knowledge Discovery from Protein Interactions: Application to HIV–Kartick Chandra Mondal [PI]–Jadavpur University, Kolkata (JUREsearch Grant)

Individual–Data Mining Algorithms for Associative Classifier and Distributed Association Rule mining: Application to Protein Interaction–Kartick Chandra Mondal [PI]–UPE – II, University Grants Commission, Government of India 2015-2019

Individual–Integration of Data Mining in Biodiversity Application to Forest Diversity–Kartick Chandra Mondal [MENTOR]–DST, WOS-A2018 – 2021

Individual–Mobile Enabled Content Delivery–Prof Samiran Chattopadhyay [PI]Munmun Bhattacharya[CO-PI]–University Grants Commission, Government of India

Individual–Analysis of gene expressions–Prof Samiran Chattopadhyay [PI]Munmun Bhattacharya[CO-PI]–PURSE-II

Individual–Algorithms to ensure the privacy and security in online social networking sites. – M u n m u n Bhattacharya[PI]–RUSA 2.0 2019-2020

Individual–A fairness based Market Linkage Framework for Women Self Help Group to assuage the Rural-Urban Information Asymmetry using ICT–Parama Bhaumik [PI]–RUSA 2.02019-2020

Individual–Secure Authentication for ATM transactions using Near Field Communication (NFC) Technology –Uttam Kumar Roy [PI]–RUSA 2.02019-2020

Individual–Dr. Sruti Gan Chaudhuri (PT) –RUSA 2.0 2019-2020

Individual–Development of High speed MANET for intelligent collaboration–Prof. Samiran Chattopadhyay [Co-Investigator]–DRDO2019 – 2021

Individual–National Digital Library–Prof. Samiran Chattopadhyay(Consultant)–MHRD (IIT Kiharagpur) 2018 – 2020

Annual Report 2018-19

Individual–Cosmic Quest–Prof. Samiran Chattopadhyay [Co-PI] –Vigyan Prasar (DST, GoI)

Departmental–Integrated Health Analytics and Services–Dr. Bhaskar Sardar–RUSA 2.0

Departmental–Faster and Secured Communications in 5G–Prof. Bibhas Chandra Dhara–RUSA 2.0

3. A. Invited Lectures Delivered/Session Chaired: (Name of the Teachers, Type of the Participants, Name of the Seminar/ Conference etc., Place, Duration)

1. Samiran Chattopadhyay

1.1 Chaired the Session “TS 1.4: Intelligent Data Mining & Data Warehousing” on 27/07/2018 in the 2nd International Conference on “Computational Intelligence, Communications, and Business Analytics” (CICBA-2018).

1.2 Chaired the Session “TS: IX , Software and Service Engineering”,

2. Parama Bhaumik

2.1 “Refresher course on Advances in Instrumentation and Automation: Role of ICT” at Department of Instrumentation & Electronics Engineering, Jadavpur University as Resource Person.

2.2 Session Chair at International Conference eHaCON 2019 (Ethical Hacking Conference), organized by Institute of Engineering and Management Kolkata on 22nd August 2019

3. Kartick Chandra Mondal

3.1. Workshop on Scientific Writing, on April 22-26, 2019 at Department of Computer Science & Engineering, University of Kalyani as Resource Person.

3.2. In Second International Conference on Computational Intelligence, Communications, and Business Analytics on 27-28 July, 2018 at Kalyani Govt. Engg. College, Kalyani, India as Session Chair.

4. Munmun Bhattacharya

4.1. “Refresher course on Advances in Instrumentation and Automation: Role of ICT” at Department of Instrumentation & Electronics Engineering, Jadavpur University as Resource Person.

3. B. Seminar/Workshop/Conference/Symposium Attended: (Name of the Teachers, Name of the paper presented, Name of the Seminar/ Conference etc., Place, Duration)

1. Kartick Chandra Mondal

1.1 In Second International Conference on Computational Intelligence, Communications, and Business Analytics on 27-28 July, 2018 at Kalyani Govt. Engg. College, Kalyani, India as Participant.

2. Munmun Bhattacharya

2.1 In Second International Conference on Computational Intelligence, Communications, and Business Analytics on 27-28 July, 2018 at Kalyani Govt. Engg. College, Kalyani, India as Participant.

3. Parama Bhaumik

3.1 Attended 3-Day Workshop on Machine Learning and Data Analytics organized by Department of Computer Science and Engineering, Jadavpur University, 26th - 28th March, 2019.

4. Tohida Rehman

4.1 Attended 7 Day Short Term Course on Smart and Green ICT sponsored by TEQIP III on May 16- 22, 2018 at Deptt. Information Technology, Jadavpur University.

4.2 7 Day Short Term Course on Internet of Things:Theory and Applications sponsored by (TEQIP III),organized by IIT, KGP(Dept. of CSE) October 24-28, 2018.

4.3 7 Day Short Term Course on sponsored by (AICTE) on Machine learning Using Python organized by NITTTR, Chandigarh (Dept. of C.S.E), April, 29-March 3, 2019.

4.4 2 Day workshop on PyTorch organized by Calcutta University, June 29-30, 2019

3. C. Seminar/Workshop/Conference/Symposium Organized:(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

1. Dr. Bhaskar Sardar and Prof. Samiran Chattopadhyay, “Smart and Green Information and Communication Technologies”, TEQIP – III sponsored Short Term Course organized by Department of Information Technology, Jadavpur University from May 16 – May 22, 2018.

3. D. Orientation Courses/Refresher Courses Attended: (Name of the Teachers, Title of the Course, Duration, Place)

1. Kartick Chandra Mondal

- 1.1 Refresher Course on “Disaster Management: Water and Environmental Sanitation”, UGC-HRDC, Jadavpur University, Saltlake Campus, Kolkata, India, 7th January 2019 To 30th January 2019, 3 Weeks
- 1.2 7 Day Short Term Course on “Smart and Green ICT” sponsored by TEQIP III on May 16- 22, 2018 at Deptt. Information Technology, Jadavpur University.

2. Munmun Bhattacharya

- 2.1 7-Day Short Term Course on “Smart and Green ICT” sponsored by TEQIP III on May 16- 22, 2018 at Deptt. Information Technology, Jadavpur University.

3. Rohini Basak

- 3.1 7 Day Short Term Course on “Smart and Green ICT” sponsored by TEQIP III on May 16- 22, 2018 at Deptt. Information Technology, Jadavpur University.

4. Palash Kundu

- 4.1 7 Day Short Term Course on “Smart and Green ICT” sponsored by TEQIP III on May 16- 22, 2018 at Deptt. Information Technology, Jadavpur University.

5. Sujit Kumar Das

- 5.1 7 Day Short Term Course on “Smart and Green ICT” sponsored by TEQIP III on May 16- 22, 2018 at Deptt. Information Technology, Jadavpur University.

6. Sruti Gan Chaudhuri

- 6.1 7 Day Short Term Course on “Smart and Green ICT” sponsored by TEQIP III on May 16- 22, 2018 at Deptt. Information Technology, Jadavpur University.

7. Parama Bhaumik

- 7.1 7 Day Short Term Course on “Smart and Green ICT” sponsored by TEQIP III on May 16- 22, 2018 at Deptt. Information Technology, Jadavpur University.

8 Uttam Kumar Roy

- 8.1 7 Day Short Term Course on “Smart and Green ICT” sponsored by TEQIP III on May 16- 22, 2018 at Deptt. Information Technology, Jadavpur University.

4. A. Books/Monographs/Book Chapters Published (Name of the Teachers, Name of the Book, Name of the publisher)

Samiran Chattopadhyay

1. Nandini Mukherjee, Sarmistha Neogy, Samiran Chattopadhyay, Big Data in e-healthcare: Challenges and Perspectives, Chapman and Hall/CRC, 2019.
2. Debarshi Kumar Sanyal, Samiran Chattopadhyay, Rajdeep Chatterjee, *Figure Retrieval from Biomedical Literature: An Overview of Techniques, Tools and Challenges*, Machine Learning in Bio-Signal Analysis and Diagnostic Imaging, Edited by Nilanjan Dey Surekha Borra Amira Ashour Fuqian Shi, Academic Press, December , 2018 (in Press)

Kartick Chandra Mondal

1. Kartick Chandra Mondal and Nicolas Pasquier, "Algorithms for Data Mining and Bio-informatics", 336 pages, Publisher: LAP LAMBERT Academic Publishing (April 24, 2018), Language: English, ISBN-10: 3330045558, ISBN-13: 978-3330045552, Product Dimensions: 5.9 x 0.8 x 8.7 inches

4. B. Articles published in Journals/Conferences: (National/International/Peer-reviewed)

Samiran Chattopadhyay

1. Soumya Banerjee, Vanga Odelu, Ashok Kumar Das, Samiran Chattopadhyay, Joel J. P. C Rodrigue, Physically Secure Lightweight Anonymous User Authentication Protocol for Internet of Things using Physically Unclonable Functions, accepted in *IEEE Access*, 2019 (IF: 4.098)
2. Arpita Mallick, Anindita Saha, Chandreyee Chowdhury, Samiran Chattopadhyay "Energy Efficient Routing Protocol for Ambient Assisted Living Environment", accepted in *Wireless Personal Communications*, Springer, 2019 [IF 1.200]
3. Soumya Banerjee, Vanga Odelu, Ashok Kumar Das, Jangirala Srinivas, Neeraj Kumar, Samiran Chattopadhyay, Kim-Kwang Raymond Choo, "A Provably-Secure and Lightweight Anonymous User Authenticated Session Key Exchange Scheme for Internet of Things Deployment", accepted in *IEEE Internet of Things Journal* (IF 5.863), 2019.
4. Suvadip Batabyal, Parama Bhaumik, Samiran Chattopadhyay, Sudip Misra "Steady State Analysis of Buffer Occupancy for Different Forwarding Strategies in Mobile Opportunistic Network", accepted in *IEEE Transactions in Vehicular Technology* (IF 4.432), 2019
5. Barman, Hubert Shum, Samiran Chattopadhyay, Debasis Samanta "A Secure Authentication Protocol for Multi-server-based e-Healthcare using a Fuzzy Commitment Scheme", accepted in *IEEE Access*, 2018. [2017 IF: 3.557]
6. Raja Karmakar, Samiran Chattopadhyay, Sandip Chakraborty "Intelligent MU-MIMO User Selection with Dynamic Link Adaptation in IEEE 802.11ax", accepted in *IEEE Transactions on Wireless Communications*. [2018 IF: 5.888]
7. Diptangshu Pandit, Li Zhang, Samiran Chattopadhyay, Chee Peng Lim and Chengyu Liu "A Scattering and Repulsive Swarm Intelligence Algorithm for Solving Global Optimization Problems", accepted in *Knowledge-based systems, Elsevier* [IF: 4.5]
8. Santanu Chatterjee, Sandip Roy, Ashok Kumar Das, Samiran Chattopadhyay, Neeraj Kumar, and Athanasios V. Vasilakos "Secure Biometric-Based Authentication Scheme using Chebyshev Chaotic Map for Multi-Server Environment," *IEEE Transactions in Secured and Dependable Computing*, Volume 15, Issue 5, 824 – 839, September/October 2018 [Impact factor: 2.926]
9. Soumya Banerjee, Vanga Odelu, Ashok Kumar Das, Samiran Chattopadhyay, Neeraj Kumar, Youngho Park, Sudeep Tanwar, "Design of an Anonymity-Preserving Group Formation Based Authentication Protocol in Global Mobility Networks", *IEEE Access*, Volume 6, Issue 1, 20673 – 20693, December 2018 [Impact Factor: 3.244].
10. Chandreyee Chowdhury, Nauman Aslam, Ghufuran Ahmed, Samiran Chattopadhyay Sarmistha Neogy; Li Zhang, "Reliability Analysis of Wireless Sensor Networks for Remote Deployment," *Wireless Personal Communications*, Volume 98, Issue 1, pp 1331-1360, Springer, 2018 [Impact Factor: 0.951]
11. Sandip Roy, Ashok Kumar Das, Santanu Chatterjee, Neeraj Kumar, Samiran Chattopadhyay, and Joel J. P. C. Rodrigues "Provably Secure Fine-Grained Data Access Control over Multiple Cloud Servers in Mobile Cloud Computing Based Healthcare Application," *IEEE Transactions in Industrial Informatics*, Early Access, 2018 [SCI IF: 6.74]
12. Anindita Sarkar Mondal, Madhupa Sanyal, Samiran Chattopadhyay, Kartick Chandra "Mondal Performance Analysis of Structured, Un-Structured, and Cloud Storage Systems", *International Journal of Ambient Computing and Intelligence (IJACI)*, IGI Global, Volume 10, Issue 1, pp. 1-29, 2019.

13. Neepa Biswas, Samiran Chattopadhyay, Gautam Mahapatra, Santanu Chatterjee and Kartick Chandra Mondal, "A New Approach for Conceptual Extraction-Transformation-Loading Process Modeling, *International Journal of Ambient Computing and Intelligence (IJACI)*", IGI Global, Volume 10, Issue 1, pp. 30 – 45, 2019.
14. Hindol Bhattacharya, Samiran Chattopadhyay, Matangini Chattopadhyay and Avishek Banerjee, "Storage and Bandwidth Optimized Reliable Data Placement", accepted in *International Journal of Ambient Computing and Intelligence (IJACI)*, IGI Global Volume 10, Issue 1, pp. 78 – 95, 2019.
15. Sk. Simran Akhtar, Debarshi Kumar Sanyal, Samiran Chattopadhyay, Plaban Kumar Bhowmick and Partha Pratim Das, "A Metadata Extractor for Books in a Digital Library" accepted for publication in the proceedings of the 20th International Conference On Asia-Pacific Digital Libraries (ICADL) 2018 [CORE Rank A].
16. Anindita Sarkar, Kshitij Pant and Samiran Chattopadhyay, "DRSQ - A Dynamic Resource Service Quality Based Load Balancing Algorithm", Proceedings of Second International Conference on "Computational Intelligence, Communications, and Business Analytics" (CICBA-2018), 2018, to be published in CCIS, Springer.
17. Hindol Bhattacharya, Arnab Bhattacharya, Samiran Chattopadhyay and Matangini Chattopadhyay, "LDA Topic Modeling based Dataset Dependency Matrix Prediction", Proceedings of Second International Conference on "Computational Intelligence, Communications, and Business Analytics" (CICBA-2018), 2018, to be published in CCIS, Springer.
18. Nilkantha Garain, Samiran Chattopadhyay, Gautam Mahapatra, Santanu Chatterjee and Kartick Chandra Mondal, "Design and implementation of an improved data warehouse on clinical data", Proceedings of Second International Conference on "Computational Intelligence, Communications, and Business Analytics" (CICBA-2018), 2018, to be published in CCIS, Springer.
19. Pragma Kar, Soumya Banerjee, Kartick Chandra Mondal, Gautam Mahapatra, Samiran Chattopadhyay, "A Hybrid Intrusion Detection System For Hierarchical Filtration of Anomalies," *Information and Communication Technology for Intelligent Systems*, Springer Nature, Singapore, 2019 (in Press).
20. Saswati Mukherjee, Matangini Chattopadhyay, Samiran Chattopadhyay, and Pragma Kar, "EAER-AODV: Enhanced Trust Model Based on Average Encounter Rate for Secure Routing in MANET", *Advances in Intelligent Systems and Computing*, vol 667. Springer, Singapore, May 2018
21. Sriyanjana Adhikary, Samiran Chattopadhyay and Sankhayan Choudhury, "A Novel Bio-inspired Algorithm for increasing Throughput in Wireless Body Area Network (WBAN) by Mitigating Inter-WBAN", *Advances in Intelligent Systems and Computing*, vol 667. Springer, Singapore, May 2018.

Bibhas Chandra Dhara

1. S. Umer, B. C. Dhara and B. Chanda, "Face Recognition Using Fusion of Feature Learning techniques", Measurement, 2019.
2. S. Kandar, Dhaibat Chaudhuri, Apurbaa Bhattacharjee and B. C. Dhara, "Image encryption using sequence generated by cyclic group", *Journal of information security and applications*, vol-44 pp. 117-129, 2019.
3. S. Umer, B. C. Dhara and B. Chanda, "Person Identification using Fusion of Iris and Periocular Deep Features", *Engineering Applications of Artificial Intelligence*.
4. S. Umer, B. C. Dhara and B. Chanda, "Recognition of Constrained and Less-constrained Iris Images Based on Ensemble of Patch Statistics Features", *The Visual Computers*, 2019 Sep 1;35(9):1327-44.
5. Sumit Pal, S. Kandar and B. C. Dhara, "A Novel Copy-Move Image Forgery Detection Method Using 8-Connected Region Growing Technique", First International Conference on "Advances in Electrical and Computer Technologies 2019" (ICAECT 2019).
6. C. Maiti and B. C. Dhara, "Robust Non-blind Video Watermarking using DWT and QR Decomposition", In International Conference on "Computational Intelligence in Pattern Recognition (CIPR 2019)".

Bhaskar Sardar

1. M. Das, A. Banerjee, B. Sardar, "A framework for evaluating branch predictors using multiple performance parameters", accepted for publication in Inderscience *International Journal of High Performance Systems Architecture* (IJHPSA) (In Press).
2. M. Das, A. Banerjee, B. Sardar, "A Shared BTB Design for Multicore Systems", IEEE/ACM International Symposium on Code Generation and Optimization, co-located with HPCA, pp.267-268, February 2019.
3. S. S. Ray, S. Singh, C. Sengupta, S. Ghosh, B. Sardar, "A Fine-grained Integrated IP Lookup Engine for Multigigabit IP Processing", International Conference on "Advanced Networks and Telecommunications Systems (ANTS)", IEEE, pp. 1-6, December 2018.
4. R. Mondal, A. Biswas, B. Sardar, "Effect of Mobility and Receive Window on TCP in Device to Device Communication" International Conference on "Research in Computational Intelligence and Communication Networks (ICRCICN)", IEEE, pp. 182-187, November 2018.
5. M. Das, A. Banerjee, B. Yu, B. Sardar, "A Multi-component Branch Predictor Design for Low Resource Budget Processors" International workshop on "Pioneering Processor Paradigms" (WP3) 2018, co-located with HPCA 2018, Vienna.

Kartick Chandra Mondal

1. Arunava Sankar Nath, Aparajita Pal, Somnath Mukhopadhyay, Kartick Chandra Mondal, (2019) "A survey on cancer prediction and detection with data analysis.", *Innovations in Systems and Software Engineering* (ISSE), Springer-Verlag London Ltd., part of Springer Nature 2019, Pages: 1-13, DOI: <https://doi.org/10.1007/s11334-019-00350-6>, Print ISSN: 1614-5046, Online ISSN: 1614-5054.
2. Hrishav Bakul Barua and Kartick Chandra Mondal, (2019), "A Comprehensive survey on Cloud Data Mining (CDM) Frameworks and Algorithms." *ACM Computing Surveys*, Vol. 52(5), 2019, Article No. 104, 62 pages, DOI: 10.1145/3349265.
3. Hrisav Bakul Barua, and Kartick Chandra Mondal, (2019) "Approximate computing: A survey of recent trends Bringing greenness to computing and communication", *Journal of The Institution of Engineers (India): Series B (IEIB)*, Pages: 1-9, DOI: <https://doi.org/10.1007/s40031-019-00418-8>, Print ISSN: 2250-2106, Online ISSN: 2250-2114.
4. Neepa Biswas, Anamitra Sarkar, and Kartick Chandra Mondal, "Efficient incremental loading in ETL processing for real-time data integration.", *Innovations in Systems and Software Engineering, S.I. : CICBA 2018*, pp. 1-9, 2019, DOI: <https://doi.org/10.1007/s11334-019-00344-4>, Print ISSN: 1614-5046, Online ISSN: 1614-5054.
5. Neepa Biswas, Samiran Chattapadhyay, Gautam Mahapatra, Santanu Chatterjee, and Kartick Chandra Mondal, "A New Approach for Conceptual ETL Process Modeling." *International Journal of Ambient Computing and Intelligence (IJACI)*, IGI Global (SI titled: "Storage, Process and Intelligent Systems") Vol 10(1), 2019, pp. 30-45, DOI: 10.4018/IJACI.2019010102.
6. Anindita Sarkar Mondal, Madhupa Sanyal, Samiran Chattapadhyay, and Kartick Chandra Mondal, "Performance Analysis of Structured, Un-structured & Cloud Storage Systems" *International Journal of Ambient Computing and Intelligence (IJACI)*, IGI Global (SI titled: "Storage, Process and Intelligent Systems") Vol 10(1), 2019, pp. 1-29, DOI: 10.4018/IJACI.2019010101.
7. Kartick Chandra Mondal, and Hrisav Bakul Barua, "Fault Analysis and Trend Prediction in Telecommunication using Pattern Detection: Architecture, Case study and Experimentation", In: Mandal J., Mukhopadhyay S., Dutta P., Dasgupta K. (eds) *Computational Intelligence, Communications, and Business Analytics. CICBA 2018. Communications in Computer and Information Science*, vol 1030, Pages: 307-320, DOI: https://doi.org/10.1007/978-981-13-8578-0_24, Print ISBN: 978-981-13-8577-3, Online ISBN: 978-981-13-8578-0. (Conference Proceedings)

8. Nilkantha Garain, Samiran Chattopadhyay, Gautam Mahapatra, Santanu Chatterjee and Kartick Chandra Mondal, "Design and implementation of an improved data warehouse on clinical data", In: Mandal J., Mukhopadhyay S., Dutta P., Dasgupta K. (eds) *Computational Intelligence, Communications, and Business Analytics. CICBA 2018. Communications in Computer and Information Science*, vol 1031, Pages: 278-290, DOI: https://doi.org/10.1007/978-981-13-8581-0_23, Print ISBN: 978-981-13-8580-3, Online ISBN: 978-981-13-8581-0. (Conference Proceedings)
9. Sudarshan Biswas, and Kartick Chandra Mondal, "Dynamic FP Tree Based Rare Pattern Mining Using Multiple Item Supports Constraints", In: Mandal J., Mukhopadhyay S., Dutta P., Dasgupta K. (eds) *Computational Intelligence, Communications, and Business Analytics. CICBA 2018. Communications in Computer and Information Science*, vol 1031, Pages: 291-305, DOI: https://doi.org/10.1007/978-981-13-8581-0_24, Print ISBN: 978-981-13-8580-3, Online ISBN: 978-981-13-8581-0. (Conference Proceedings)
10. Neepa Biswas, Anamitra Sarkar, and Kartick Chandra Mondal, "Empirical Analysis of Programmable ETL Tools", In: Mandal J., Mukhopadhyay S., Dutta P., Dasgupta K. (eds) *Computational Intelligence, Communications, and Business Analytics. CICBA 2018. Communications in Computer and Information Science*, vol 1031, Pages: 267-277, DOI: https://doi.org/10.1007/978-981-13-8581-0_22, Print ISBN: 978-981-13-8580-3, Online ISBN: 978-981-13-8581-0. (Conference Proceedings)
11. Pragma Kar, Soumya Banerjee, Kartick Chandra Mondal, Goutam Mahapatra, Santanu Chattopadhyay, (2019) "A Hybrid Intrusion Detection System for Hierarchical Filtration of Anomalies.", In: Satapathy S., Joshi A. (eds) *Information and Communication Technology for Intelligent Systems. Smart Innovation, Systems and Technologies*, vol 106, Pages: 417-426, Springer, Singapore, DOI: https://doi.org/10.1007/978-981-13-1742-2_41, Print ISBN: 978-981-13-1741-5, Online ISBN: 978-981-13-1742-2 (Conference Proceedings)
12. Kartick Chandra Mondal, Biswadeep Deb Nandy, Arunima Baidya, (2018) "A Factual Analysis of Improved Python Implementation of Apriori Algorithm." In: Mandal J., Mukhopadhyay S., Dutta P., Dasgupta K. (eds) *Methodologies and Application Issues of Contemporary Computing Framework*. Springer, Singapore, pp 139-151, DOI: https://doi.org/10.1007/978-981-13-2345-4_11, Print ISBN: 978-981-13-2344-7, Online ISBN: 978-981-13-2345-4 (Edited Book Chapter)
13. Sudarsan Biswas, Neepa Biswas and Kartick Chandra Mondal, "Parallel Apriori based Distributed Association Rule Mining: A Comprehensive Survey.", 2018 Fourth International Conference on "Research in Computational Intelligence and Communication Networks" (ICRCICN), DOI: 10.1109/ICRCICN.2018.8718690, Electronic ISBN: 978-1-5386-7638-7, USB ISBN: 978-1-5386-7637-0, Print on Demand(PoD) ISBN: 978-1-5386-7639-4
14. Hrisav Bakul Barua, and Kartick Chandra Mondal, "Green Data Mining using Approximate Computing: An experimental analysis with Rule Mining", IEEE International Conference on "Computing, Power and Communication Technologies" (GUCON) 2018, IEEE Conference Record No 42736, DOI: 10.1109/GUCON.2018.8675095, Electronic ISBN: 978-1-5386-4491-1, USB ISBN: 978-1-5386-4490-4, Print on Demand(PoD) ISBN: 978-1-5386-4492-8

Utpal Kumar Ray

15. Sandeep Kumar Pandey, Tapobrata Dhar, Ryan Saptarshi Ray, Aritro Sengupta, Utpal Kumar Ray, "An innovative way of increasing the efficiency of Identity-Based Cryptosystem by Parallelisation of Threads", published in Conference Proceedings of International Conference on "Computer Networks and Inventive Communication Technologies" (ICCNCT 2018) (Proceedings published by Springer as Lecture Notes on Data Engineering and Communications Technologies, Volume 15), 26-27 April 2018, ISBN:978-981-10-8680-9, ISBN:978-981-10-8681-6(eBook), ISSN:2367-4512, ISSN:2367-4520(electronic), pp 497-514
2. Ryan Saptarshi Ray, Parama Bhaumik, Utpal Kumar Ray, "Fault-tolerant smt (software transactional memory) using replication", published in *International Journal of Computer Engineering & Technology*

Annual Report 2018-19

(IJ CET) ISSN (PRINT): 0976 – 6367, ISSN (ONLINE): 0976 – 6375 Volume- 9, Issue-3, May-June 2018, pp 175-181

3. Ryan Saptarshi Ray, Parama Bhaumik, Utpal Kumar Ray, “Flexible Programming Approach using STM”, published in *International Journal of Computer Sciences and Engineering (IJCSE)* E-ISSN:2347-2693 Volume- 6, Issue-7, July 2018, pp 349-353

Rohini Basak

1. Rohini Basak, Sudip Kumar Naskar, Alexander Gelbukh: “Short-answer grading using textual entailment”, *Journal of Intelligent & Fuzzy Systems*, vol 36, no 5, pp: 4909-4919. 2019. DOI: 10.3233/JIFS-179038
2. Dibyendu Seal, Uttam K Roy, Rohini Basak: “Sentence-Level Emotion Detection from Text Based on Semantic Rules”, “Information and Communication Technology for Sustainable Development”, Proceedings of ICT4SD 2018, pp: 423-430, 2019.
3. Bhuvnesh Chaturvedi, Rohini Basak: “Automatic Short-Answer Grading using Corpus-based Semantic Similarity Measurements”, International Conference on “Advanced Computing and Intelligent Engineering (ICACIE 2019)” [ACCEPTED]

Munmun Bhattacharya

1. M Bhattacharya, D Ghosh “An algorithm for Selecting Optimal Trust Path in Online Social Networks using Particle Swarm Optimization”, CICBA 2018, 27 – 28 July, 2018.

Parama Bhaumik

1. Suvadip Batabyal, Parama Bhaumik, Samiran Chattopadhyay, Sudip Misra, “Steady State Analysis of Buffer Occupancy for Different Forwarding Strategies in Mobile Opportunistic Network”, *IEEE Transactions on Vehicular Technology*, DOI 10.1109/TVT.2019.2915111, (Volume: 68 , Issue: 7) Page(s): 6951 - 6963, INSPEC Accession Number: 18832083
2. Hiren Dutta, Parama Bhaumik “Real-Time Dynamic Data Control mechanism using Auto rebalancing strategy for IoT Applications”, March-May 2018 issue (Volume No. 6, Issue No. 1) of *i-manager’s Journal on Computer Science (JCOM)*
3. Ryan Saptarshi Ray, Parama Bhaumik, Utpal Kumar Ray, “Fault-tolerant smt (software transactional memory) using replication” published in *International Journal of Computer Engineering & Technology (IJ CET)* ISSN (PRINT): 0976 – 6367, ISSN (ONLINE): 0976 – 6375 Volume- 9, Issue-3, May-June 2018, pp 175-181
4. Swarna Kamal Paul, Prince Gupta and Parama Bhaumik , “ Learning to solve single variable linear equations by universal search with probabilistic program graphs” in proceedings of 8th World Congress on “Information and Communication Technologies (WICT 2018)” Kochi, India December 17-19, 2018.
5. Smritikona Barai, Nupur Boral and Parama Bhaumik , “Reducing the negative effect of malicious nodes in Opportunistic networks Using Reputation based Trust Management” in proceedings of 8th World Congress on “Information and Communication Technologies (WICT 2018)” Kochi, India December 17-19, 2018.
7. Ryan Saptarshi Ray, Parama Bhaumik, Utpal Kumar Ray, “Flexible Programming Approach using STM”, published in *International Journal of Computer Sciences and Engineering (IJCSE)* E-ISSN: 2347-2693 Volume- 6, Issue-7, July 2018, pp 349-353

Uttam Kumar Roy

1. Uttam K. Roy, Shivashis Ganguly, Arijit Ukil, “Non-Invasive Estimation of Random Blood Glucose from Smartphone-based PPG”, *International Journal of Biomedical Engineering and Technology*, ISSN online:1752-6426, ISSN print:1752-6418 (In press)
2. Divyans Mahansaria and Uttam, “Secure Authentication for ATM transactions using NFC technology”, Kumar Roy The IEEE (53rd) International Carnahan Conference on “Security Technology,” October 1-3, 2019, Chennai, India, pp. 181-185

Annual Report 2018-19

3. Uttam K. Roy, Divyans Mahansaria, “Two-Factor Authentication Using Mobile OTP and Multi-dimensional Infinite Hash Chains”, “Future of Information and Communication Conference (FICC) 2020”, to be held from 5-6 March 2020, San Francisco, United States (accepted)

Sruti Gan Chaudhuri

1. Subhash Bhagat, Sruti Gan Chaudhuri, Krishnendu Mukhopadhyaya, Mutual Visibility for Asynchronous Robots. “International Colloquium on Structural Information and Communication Complexity, SIROCCO 2019”: Structural Information and Communication Complexity. pp 336-339
2. Sruti Gan Chaudhuri, Flocking along line by autonomous oblivious mobile robots. The 20th International Conference on “Distributed Computing and Networking ICDCN 2019:” 460-464, doi>10.1145/3288599.3295583 - Presented
3. Sruti Gan Chaudhuri, Gathering of Autonomous Mobile Robots Under Limited Sensing Ranges. 7th International Conference on “Advances in Computing, Communications and Informatics (ICACCI 2018) ICACCI 2018”, 909-914, , doi> 10.1109/ICACCI.2018.8554579,
4. M Mondal, S Gan Chaudhuri, S Bhattacharya, Uniform Circle Formation by Fat Robots, International Conference on “Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018” pp 350-362, doi> 10.1007/978-3-030-03146-6_39

Tohida Rehman

1. T Rehman “A Fuzzy Intelligent Advisor through Matlab under E-Learning Environment.” published in *IOSR Journal of Engineering (IOSRJEN)*ISSN (e): 2250-3021, ISSN (p): 2278-8719 Vol. 09, Issue 4 (April. 2019), ||S (II) || PP 32-37.

Annual Report 2017-2018 (1st April 2017-31st March 2018)

Department of Instrumentation and Electronics Engineering Jadavpur University, Kolkata 700098

1. A) Courses offered:

Name of the Course	Duration	Year from which the course started	Total Intake	No. of students enrolled
Bachelor of Instrumentation & Electronics Engineering	4 Years	1989	57	57
Bachelor of Technology in Instrumentation and Electronics Engineering	3 Years	1966	21	18
Master of Technology in Instrumentation and Electronics Engineering	2 Years	2001	8	8
Ph.D.		1966		19

B) Number of Faculty Members:

Professor(s)	Associate Professor(s)	Assistant Professor(s)
Subhankar Bandyopadhyay	Kalyan Majumdar	Runu Banerjee Roy
Ardhendu Ghoshal	Kumardeb Banerjee	Prolay Sharma
Rajib Bandyopadhyay	Bhaswati Goswami	Ravi Kumar Pandit
Bivas Dam	Ratna Ghosh	Abhjit Chandra
Rajanikanta Mudi	Bipan Tudu	

2. A) Area of Research Activities:

i) Signal Processing	ii) Digital System Design
iii) Intelligent Control	iv) Electronic Olfaction and Taste Characterization
v) Embedded Systems	vi) Sensor Design
vii) Control System	viii) Filtering and estimation
ix) Bio-medical instrumentation	x) Spectroscopic Instrumentation

2. B) Major Research Projects:

Name of the Project	Investigators	Funding Agency	Amount (Rs. Lakhs)	Duration
Development of near infrared spectroscopy (NIRS) based method for real-time estimation of the biochemical quality parameters during tea processing	Prof. Rajib Bandyopadhyay	National Tea Research Foundation, Tea Board, Govt. of India	22.00	2016-2019
Development of potentiostat system for electrochemical applications	Prof. Rajib Bandyopadhyay	Department of Science and Technology, Govt. of India	35	2016-2018
Development of QCM gas sensors for quality monitoring of agro products	Dr. Prolay Sharma	Department of Science and Technology, Govt. of India	38	2016-2018
Modeling, Characterization and control of a Fast Steering Mirror Assembly	Prof. Kumardeb Banerjee.	DRDO, Gov of India	22	2016-2018
Development of sensing system for residual pesticide and harmful chemical detection in fruits and vegetables	Prof. Rajib Bandyopadhyay	R.D. Tata Trust	19.65	2016-2018
Development of sensor probes for quantification of active constituents in <i>Andrographis paniculata</i> and <i>Piper nigrum</i> using Near Infrared Spectroscopy (NIRS)	Prof. Rajib Bandyopadhyay Prof. Pulok Mukherjee	National Medicinal Plant Board, Ministry of Ayush	52.50	2018-2020
Design of low complexity sharp cut-off variable bandwidth digital FIR filter for next generation communication system	Dr. Abhijit Chandra	Department of Science and Technology, Govt. of India	21.32	2017-2020

3. A) Invited lectures delivered/ session chaired:

- i) Rajib Bandyopadhyay was invited to deliver a lecture on "Spectroscopic techniques for noninvasive and rapid estimation of important phytochemicals of different agro products" at ITMO University, St Petersburg, Russia on 22nd June 2017.
- ii) Rajib Bandyopadhyay was invited to deliver a lecture on "Artificial sensing of smell and taste" in the Refresher Course of the Dept of Zoology, University of Calcutta on 14th November 2017.
- iii) Rajib Bandyopadhyay was invited to deliver a lecture on "Application of Instrumentation in Biomedical and Agricultural field" on 1st February, 2018 at the Department of Electronics and Instrumentation Engineering, GNIT, Kolkata.
- iv) Rajib Bandyopadhyay was invited to deliver a lecture on "Emerging Technologies and Application in Electronics and Information Technology" on 22nd February, 2018 in Techno India College of Technology, Kolkata.

	<p>v) Rajib Bandyopadhyay was invited to deliver a lecture in the conference EDCT – 2018 on “Sensing of smell and taste: a new paradigm in measurement technology” on 9th March 2018 at Guru Nanak Institute of Technology, Kolkata.</p>
<p>B)</p>	<p><u>Seminar/ workshop/ conference/symposium attended:</u></p> <p>Paper presented in international conferences :</p> <ol style="list-style-type: none"> 1. Sanjeev Kumar, Arunangshu Ghosh, Bipan Tudu, Rajib Bandyopadhyay, “An equivalent electrical network of an electronic tongue: a case study with tea samples,” <i>IEEE International Symposium on Olfaction and Electronic Nose (ISOEN 2017)</i>, Montreal, Canada, May 28-31, 2017. 2. Subhabrata Roy and Abhijit Chandra, “A New Method for Denoising ECG Signal using Sharp Cut-off FIR Filter,” in Proceedings of <i>IEEE International Symposium on Devices Circuits and Systems (ISDCS 2018)</i>, Kolkata, India, March 29-31, 2018. 3. Subhabrata Roy and Abhijit Chandra, “A New Design Strategy of Sharp Cut-off FIR Filter with Powers-of-two Coefficients,” in Proceedings of <i>International Conference on Wireless Communications Signal Processing and Networking (WiSPNET 2018)</i>, Chennai, India, March 22-24, 2018. 4. Arindam Sarkar, Aditi Bhattacharys, Ratna Ghosh and Bhaswati Goswami, “A Comparative Study of Biopotentials acquired from Left and Right Hands of Human Subjects,” <i>First International Conference on Advanced Computational and Communication Paradigms (ICACCP)</i>, Sikkim, India, 2017.
<p>C)</p>	<p><u>Seminar/ workshop/ conference/symposium organized:</u></p> <p>i) Tech-Talk jointly organized with ISA Kolkata Section on "Current Trends in Instrumentation & Automation in Refinery Sector" on 29th April 2017 by Mr.Sushanta Saha, CITM-Indian Oil Corporation Limited, Mathura Refinery.</p> <p>ii) Tech-Talk jointly organized with ISA Kolkata Section on “Migration from Campus to Industry” on August 11, 2017 by Mr. Sudip Sen, Country Manager, GM International.</p> <p>iii) Tech-Talk jointly organized with ISA Jadavpur University Student Section on “Oil and Gas Operations @ Offshore” on 12th March, 2018 by Mr. Gautam Basak, Former Engineering Support Team Leader – ADMA, OPCO, Abu Dhabi</p>
<p>D)</p>	<p><u>Orientation course/ Refreshers course attended:</u> Nil</p>
<p>E)</p>	<p><u>Orientation course/ Refreshers course organized:</u> Nil</p>
<p>4. A)</p>	<p><u>Books/Monographs published:</u></p>

1. Title of the Book: Bio-inspired Computing for Image and Video Processing, CRC Press.

Edited by: D. P. Acharjya and V. Santhi

Title of the chapter: Evolutionary Algorithms for Efficient Design of Multiplier-less Image Filter, Chapter 10, pp 267-296, 2017.

By Abhijit Chandra

2. Title of the Book: Handbook of Research on Emerging Perspectives in Intelligent Pattern Recognition, Analysis, and Image Processing, IGI Global.

Edited by: Narendra Kumar Kamila

Title of the chapter: Impulse Noise Filtering: Review of the State-of-the-art Algorithms for Impulse Noise Filtering, Chapter 5, pp 102-115, 2016.

By Abhijit Chandra and Srideep Maity

3. Sarkar A, Bhattacharya A, Ghosh R, Goswami B. A Comparative Study of Biopotentials Acquired from Left and Right Hands of Human Subjects. In Advanced Computational and Communication Paradigms 2018 (pp. 110-117). Springer, Singapore.

4. B) Articles published in Journals:

INTERNATIONAL

1. Trisita Nandy Chatterjee, Debangana Das, Runu Banerjee Roy, Bipan Tudu, Santanu Sabhapondit, Pradip Tamuly, Panchanan Pramanik, Rajib Bandyopadhyay, "Molecular imprinted polymer based electrode for sensing catechin (+C) in green tea," IEEE Sensors Journal, vol. 18, no. 6, pp. 2236-2244, 2018.
2. Ajanto K Hazarika, Somdeb Chanda, Santanu Sabhapondit, Sandip Sanyal, Pradip Tamuly, Sahnaz Tasrin, Dilip Sing, Hemanta Naskar, Bipan Tudu, Rajib Bandyopadhyay "On-site estimation of total polyphenol in fresh tea leaf using near-infrared spectroscopy," NIR news, vol. 29, pp. 9-14, 2018.
3. Sk Babar Ali, Barnali Ghatak, Nilava Debabhuti, Prolay Sharma, Arunangshu Ghosh, Bipan Tudu, Nabarun Bhattacharya, Rajib Bandyopadhyay, "Detection of β -Caryophyllenein mango using a quartz crystal microbalance sensor," Sensors and Actuators B, vol. 255, pp. 3064-3073, 2017, 2018.
4. Pradip Saha, Santanu Ghorai, Bipan Tudu, Rajib Bandyopadhyay, Nabarun Bhattacharyya, "Feature fusion for prediction of theaflavin and thearubigin in tea using electronic tongue," IEEE Transaction on Instrumentation and Measurement, vol. 66, no. 7, pp. 1703-1710, 2017.
5. Hena Ray, Nabarun Bhattacharyya, Alokesh Ghosh, Arunangshu Ghosh, Bipan Tudu,

Rajib Bandyopadhyay, "Age analysis of Jasmine concrete using electronic nose," IEEE Sensors Journal, vol. 17, no. 12, pp. 3814-3821, 2017.

6. Sujoy Kumar Ghosh, Prakriti Adhikary, Santanu Jana, Anirban Biswas, Vitor Sencadas, SudiptoDutta Gupta, Bipan Tudu, Dipankar Mandal, "Electrospun gelatin nanofiber based self-powered bio-e-skin for health care monitoring," Nano Energy, vol. 36, pp. 166-175, 2017.
7. Trisita Nandy Chatterjee, Runu Banerjee Roy, Bipan Tudu, Panchanan Pramanik, Himangshu Deka, Pradip Tamuly, Rajib Bandyopadhyay, "Detection of theaflavins in black tea using a molecular imprinted polyacrylamide-graphite nanocomposite electrode," Sensors and Actuators B, vol. 246, pp. 840-847, 2017.
8. Hena Ray, Nabarun Bhattacharyya, Alokesh Ghosh, Bipan Tudu, Rajib Bandyopadhyay, Arunangshu Ghosh, Suparna Parua, Sabyasachi Majumdar, "Fragrance profiling of Jasminum Sambac Ait. flowers using electronic nose," IEEE Sensors Journal, vol. 17, no. 1, pp. 160-168, 2017.
9. Banerjee P, Chakraborty A, Ghosh R, Goswami B., Predicting the dental implant stability based on the antiresonance phase of a piezo-based impedance sensor. J Int Clin Dent Res Organ, 2017;9:22-7.
10. Paramita Banerjee, Ratna Ghosh, Bhaswati Goswami. Impedance Model of A Piezoelectric Sensor Derived from Experimental Responses. Advances in Industrial Engineering and Management, Vol.6, No.1, pages 1-5, 2017.
11. So S, George AE, Ghosh R, Paliwal KK. Kalman filter with sensitivity tuning for improved noise reduction in speech. Circuits, Systems, and Signal Processing. 2017 Apr 1;36(4):1476-92.
12. Ananya Bose and Abhijit Chandra, "Conditional Differential Coefficients Method for the Realization of Powers-of-two FIR Filter", IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, Accepted in January 2018.
13. Abhijit Chandra and Sumita Mondal, "Amalgamation of Iterative Double Automated Thresholding and Morphological Filtering: A New Proposition in the Early Detection of Cerebral Aneurysm", Multimedia Tools and Applications (Springer), vol. 76, no. 22, pp. 23957-23979, November 2017.

JADAVPUR UNIVERSITY NEWS LETTER – 2017-18

MECHANICAL ENGINEERING

Name of the Department: Mechanical Engineering

1(A) Courses offered:

<i>Name of the courses</i>	<i>Course Duration</i>	<i>Intake capacity</i>
Bachelor's Degree in Mechanical Engineering	4 Years	130
Bachelor's Degree in Mechanical Engineering (Evening Course)	5 Years	40
Master's Degree in Mechanical Engineering	2 Years	25
Master's Degree in Mechanical Engineering (Automobile Engineering)	2 years	05

1(B) Number of Faculty members:

- Professors: 30
- Associate Professors: 16
- Asst. Professors: 14
- Total: 60**

2(A) Departmental Research Activities (Broad Areas):

- Hydraulic and Combustion control
- Experimental and Computational fluid dynamics and heat transfer including problems on multi-phase flow.
- Mechatronics and Control.
- Heat transfer analysis of various production process.
- Combustion modeling and simulation.
- Pollution and its control
- Alternative fuels
- I.C. Engine & Combustion
- Vibration analysis.
- Vibration control in machine foundations.
- Laser machining process.
- Fracture Mechanics.
- Dynamic instability of machine structures
- Synthesis and analysis of machine components.
- Experimental stress and deformation analysis.
- Composite structure.
- Computer Aided Design & Manufacturing (CAD/CAM)
- Energy and Exergy analysis of advanced power and cogeneration systems. Clean coal technology. Combined cycles. Energy conservation. Fuel cell technology.
- Mechatronics
- Biomechanics and Bioengineering
- Product Development: Product development performance using the Structural Equation Modeling (SEM) approach
- Sustainable Energy
- Microfluidics

Section II (Academic)

(1 April, 2017-31 March, 2018)

[For Departmental/Schools/Centres/Projects/Programmes]

1. Major Research Projects

- **Dr. Dipankar Sanyal**

Name of the Project	Role	Funding Agency	Amount (Rs.)	Duration
To develop procedure for joining next generation high used for supercritical/ultra supercritical power plant by Friction Stir Welding	P.I.	Ministry of Steel, New Delhi	Rs 4,87,26,386/=	2015 – Contd.

- **Dr. Sudipta De**

- i) Title: Road map for decarbonization of Indian energy system: exploring innovative solutions
Role: Indian Coordinator
Type: **International (Indo-Norwegian Cooperation Program)**
Funding Agency: **RCN (Norway) and UGC (India)**
- ii) Title : Project E-QUAL
Role: Member, Joint Working Group in Natural Resources, Environment and Sustainable Technology
Type: **International (Indo-EU)**
Funding Agency: **European Union and Coordinated by the British Council**
- iii) Title: Development of efficient biomass conversion routes for biofuel production and utilisation (Project acronym: (CONVER-B))
Role: Indian Co-PI
Type: **International (Under Inno-indigo call jointly by EU and DST, India)**
Funding Agency: **EU and DST, India**
- iv) Title: Sustainable energy and environment solutions: technology and policy
Role: Indian Coordinator
Type: **International (UTFORSK Program of Norway with BRICS Countries and Japan)**
Funding Agency: **Norwegian Centre for International Cooperation in Education – SIU**

- v) Title: Enhancing quality assurance management and benchmarking strategies in Indian universities (EQUAM-BI)
 Role: Staff Member from Jadavpur University
 Type: **International (Indo-EU)**
 Funding Agency: **European Commission**

- **Dr. Anirban Mitra**

1. Co-investigator, Evaluation of Fracture and Fatigue Crack Growth (FCG) behaviour of Alloy 617 Base and Welded Materials (National Mission on Advanced Ultra Super Critical Technology)

2. Co-investigator, Evaluation of Fracture and Fatigue Crack Growth (FCG) behaviour of Alloy 617 Forging Materials (National Mission on Advanced Ultra Super Critical Technology)

- **Dr Anindya Sundar Das**

Individual Project,

Name of the Project: Investigation of the Performance of a Rotor-Shaft System Supported on Magnetic-Bearings mounted on a Maneuvering Marine Vessel based on the Stability and Vibration Response

Funding Agency: Naval Research Board, DRDO.

Duration: May 2015 – April 2018

- **Dr. Prokash Chandra Roy**

Title of the Project	Funding Agency/Institute	Period	Completed/ongoing	Principal / Co-investigator	Amount
EXPERIMENTAL INVESTIGATION OF A DOWNDRAFT BIOMASS GASIFIER USING DIFFERENT BIOMASS FEEDSTOCKS	SERB, DST	3 Years 27 th March 2018 to 26 th March 2021	Ongoing	Principal Investigator (Sole)	2458000 INR

2. A. Invited Lectures Delivered/Sessions Chaired :

(Name of the Teacher, Type of Participant's Name of the Seminar/Conference etc. Place, Duration)

- **Dr. Sudipta De**

Invited Lectures

- i) 'Sustainable energy research: brief overview of work of our group', **University of Bologna, Italy**, April 11, 2017.

- ii) 'Sustainable energy: a transformational journey' at the **10th Annual Energy and Environment Conclave of the Bengal Chamber of Commerce and Industry (BCCI) at ITC-Sonar, Kolkata;** August 23-24, 2017.
- iii) 'Sustainable energy: introduction of the concept', in interdisciplinary post graduate course '**Master in Energy, Environment and Society**' at the **University of Stavanger, Norway** on 26th September, 2017 under **Indo-Norwegian Cooperation Program**.
- iv) 'Sustainable energy solution through efficient integration and utilizing local renewable resources: Indian context' at **Motilal Nehru National Institute of Technology, Allahabad** on 1st December 2017.
- v) 'From large coal based plants to small multi-generation using renewable resources: exploring sustainable energy solution for India', in **2nd Regional (Southern region) Science and Technology Congress of Department of Science and Technology, Govt. of West Bengal**, 15th December at **University of Kalyani, Kalyani, Nadia, West Bengal**.
- vi) 'Distributed Multi-generation: a sustainable energy solution' in **Kolleg on "Energy Sustainability: A Roadmap for the Future" organized by Humboldt Club Calcutta, February 2 – 4, 2018, at Vedic Village, Kolkata, India**
- vii) 'Evaluation of advanced coal-fuelled electricity generation technologies', in regional workshop on "Indian Power Sector: Supporting a Low Carbon Transition" organized by **NITI Aayog, India in association with International Energy Agency (IEA) and Asian Development Bank (ADB)** on 23rd April at **Hotel Lalit Great Eastern, Kolkata**.

Sessions Chaired

Chairperson in session titled "6-1 Renewable Energy – I" at '**American Society of Mechanical Engineers (ASME) 2017 Gas Turbine India Conference**', December 7-8, 2017 in Bengaluru, India.

- **Dr. Himadri Chattopadhyay**

- Lecture Delivered as a Resource person on Viscoelasticity and biomaterials at International workshop on "**Thermo-Fluid Science in Healthcare Engineering**" at College of Engineering and Management during 6-8, January, 2018.
-
- Lecture Delivered as a Resource person in short term training program on **Numerical and Computational Methods for Engineering**

Applications(Under AICTE-NEQIP) at Manipal Institute of Technology, Imphal, 19-22, April, 2017 in the following topics:

1. *Basic numerical analysis*
2. *Partial differential equations and solutions*
3. *Introduction to Physics of fluids*
4. *Finite difference method*
5. *Finite volume method and turbulent modeling*
6. *Implementation issues in numerical modeling*
7. *Special issue in microscale transport physics*
8. *ANSYS microphysics practice I*
9. *ANSYS microphysics practice II*

- “*Harnessing Wind energy: Recent advances*”, in Regional Seminar on **Renewable Energy Technology: Issues and Prospects** organized by NIT, Silchar, Assam on 25th September, 2017.

Prof. Goutam Pohit

- Invited Lectures on “Recent Trends on Manufacturing: Materials Perspective” on 9th February, 2018 at Narula Institute of Technology, Agarpara, Kolkata - 700 109.
- Invited Lectures on “Functional Engineering Material Technology, Modeling and Analysis”, (FEMTMA 2018) during 25th June to 7th July, 2018 at Veer Surendra Sai University of Technology, Burla, Odisha

B. Seminar/Workshop/Conference/Symposium Attended

(Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)

C. Seminar/Workshop/Conference/Symposium Organized

(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

- **Dr. Sudipta De**

Sudipta De organized (as Indian Coordinator of INCP project) with the **Bengal Chamber of Commerce and Industry (BCCI) and University of Stavanger, Norway under Indo-Norwegian Cooperation Program**: ‘Knowledge forum: bridging industry, academia’ on 27th December, 2017 at the BCCI, Kolkata.

- **Dr. Prasanta Sahoo**

S Sen and **P. Sahoo** organized (as Organizing Secretary) the First International Conference on Mechanical Engineering INCOM 2018 at Jadavpur University, Kolkata during Jan 4-6, 2018.

- **Dr. Himadri Chattopadhyay**

- Organized International workshop on “**Thermo-Fluid Science in Healthcare Engineering**” at College of Engineering and Management during 6-8, January, 2018.
- Organized a “**Short Term Training Programme (STTP) on Computational Fluid Dynamics**” at Rajasthan Technical University, Kota, Rajasthan during 17.03.2018-21.03.2018

D. Orientation Courses/Refresher Courses Attended:

(Name of the Teacher, Title of the Course, Duration, Place)

Dr. Prokash Chandra Roy, Participation in refresher courses on Built environment and Sustainable Technologies, 2nd Jan -21st Jan, 2017. Department of Architecture, Jadavpur University.

E. Orientation Courses/Refresher Courses Organized:

(Name of the Teacher, Title of the Course, Duration, Place)

3. A. Books/Monographs etc. Published:

(Name of the Teacher, Name of the Book, Name of the Publisher)

- **Dr. Sudipta De**

Edited Books

- **De S.**, Bandyopadhyay S, Assadi M, Mukherjee D.A, **Sustainable Energy Technology and Policies- A Transformational Journey (Vol. 1); book doi: 10.1007/978-981-10-7188-1 (Springer)**
- **De S.**, Bandyopadhyay S, Assadi M, Mukherjee D.A, **Sustainable Energy Technology and Policies- A Transformational Journey (Vol. 2); book doi: 10.1007/978-981-10-8343-8 (Springer)**
- Gautam A, **De S.**, Dhar A, Gupta JG, Pandey A, **Sustainable Energy and Transportation Technologies and Policy; book doi: 10.1007/978-981-10-8343-8**

Book chapters

1. Ray A and **De S.*** (2018); ‘Distributed Polygeneration Using Solar Energy: A Future Sustainable Energy System for India’, **Applications of Solar Energy**,

Editors: Himangshu Tyagi, Avinash Kumar Agarwal, Prodyut R Chakraborty and Satvasheel Powar ISBN 978-981-10-7205-5, **Springer**.

2. Jana, K., **De, S.*** (2017): 'Distributed energy solution for India: Exploring the possibilities' In: Sustainable Energy Technologies and Policy. Eds. S. De, S. Bandyopadhyay, M. Assadi, D.A. Mukherjee. **Springer**. (DOI: 10.1007/978-981-10-7188-1_6).
3. Jana, K., Mahanta, P. and **De, S.** (2017): Role of biomass for sustainable energy solution in India. In: Sustainable Energy and Transportation: Technologies and Policy. Eds. A. Gautam, A. Dhar, JG Gupta, S. De. **Springer**. (DOI: 10.1007/978-981-10-7509-4_12).

- **Dr. Prasanta Sahoo**

- **P Sahoo**, S K Das, J P Davim, Tribology of materials for biomedical applications (Chapter 1, 1-48) in Mechanical Behaviour of Biomaterials (Ed. J Paulo Davim), 2018, Elsevier – WP, <https://doi.org/10.1016/B978-0-08-102174-3.00001-2>.
- **P Sahoo**, S K Das, Manufacturing Engineering Education—Indian Perspective (Chapter 2, 46 pages) in Manufacturing Engineering Education (Ed. J P Davim) 2018, Elsevier-WP, ISBN 978-0-08-101247-5, DOI: 10.1016/B978-0-08-101247-5.00002-2
- A Mukhopadhyay, T K Barman, **P Sahoo**, Electroless Nickel Coatings for High Temperature Applications (Chapter 11, 297-331) in Composites and Advanced Materials for Industrial Applications (Eds. K Kumar and J P Davim), 2018, IGI-Global, DOI: 10.4018/978-1-5225-5216-1.ch013
- **P Sahoo**, S K Das, S K Acharya, Tribological Aspects of Natural Fiber Composites (Chapter 2, 36 pages) in Green Composites (Ed. J. P. David), 2017, De Gruyter, DOI: 10.1515/9783110435788-003.
- **P Sahoo**, S K Das, Tribological Materials – An Eco-Sustainable Perspective (Chapter 1, 38 pages) in Progress in Green Tribology (Ed. J P Davim), 2017, De Gruyter, DOI: 10.1515/9783110367058-001.
- M K Das, T K Barman, **P Sahoo**, K Kumar, Process Optimization in Non-Conventional Processes: Experimentation With Plasma Arc Cutting (PP. 82-119), in Handbook of Research on Manufacturing Process Modeling and Optimization Strategies (Ed. R Das and M Pradhan) 2017, IGI Global.

Prof. Himadri Chattopadhyay

- Edited Book with S Bhattacharyya, S Sen, M Dutta, P Biswas, H Chattopadhyay Industry Interactive Innovations in Science, Engineering

and Technology: Proceedings of the International Conference, I3SET -16, Springer 2017

B. Articles Published in Journals: (*including National/ International & pre reviewed journals*)

(Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication)(Volume)

Dr. Gautam Majumdar

- Review Of Duplex Electroless Coatings And Their Properties, Nisantika Biswas, Rishav Kumar Baranwal, Gautam Majumdar, Dermot Brabazon, Advances in Materials and Processing Technologies; Taylor & Francis Pages : 1-18
- A Theoretical Approach To Optimize The Bath Parameters Of Electroless Ni-Co-P Coating On The Response Of Surface Roughness, Gautam Majumdar, Subhasish Sarkar, Rishav Kumar Baranwal, Sameer Lamichaney Indian Journal of Engineering Science and Technology; Engineering Journal Publications, Volume :10 Pages :70-81
- Optimization of mass deposition and surface roughness for ternary Ni-Cu-P electroless coating using VIKOR method
- Gautam Majumdar, N Biswas, A Pramanik, RS Sen, Monisha Chakraborty, International Journal: Advances in Materials and Processing Technologies; Taylor & Francis, 3 Pages : 186-195

• **Prof. Kashinath Saha**

- Sushanta Ghuku, Kashinath Saha, Large deflection analysis of curved beam problem with varying curvature and moving boundaries, Engineering Science and Technology, an International Journal, (2018), Vol.21, pp.408-420.
- Priyambada Nayak and Kashinath Saha, Growth of yield front in thermo-mechanically loaded non-uniform bars in post-elastic domain by using a variational method, The Journal of Strain Analysis for Engineering Design 53 (2), 66-79, 2018.
- Sushanta Ghuku and Kashinath Saha, A review on stress and deformation analysis of curved beams under large deflection, International Journal of Engineering and Technologies, scipress.com, Volume 11, pp.13-39, 2017.
- Priyambada Nayak and Kashinath Saha, Analysis of statically indeterminate non-uniform **barhyay** problem in post elastic domain by an iterative variational method, Applied Mathematical Modeling, (2017), Vol.51, pp.86-108.

- Sushanta Ghuku, Kashinath Saha, Large deflection analysis of curved beam problem with varying curvature and moving boundaries, *Engineering Science and Technology, an International Journal*, (2018), Vol.21, pp.408-420.
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 - Sushanta Ghuku and Kashinath Saha, A review on stress and deformation analysis of curved beams under large deflection, *International Journal of Engineering and Technologies*, scipress.com, Volume 11, pp.13-39, 2017.
 - Priyambada Nayak and Kashinath Saha, Analysis of statically indeterminate non-uniform bar problem in post elastic domain by an iterative variational method, *Applied Mathematical modeling*, (2017), Vol.51, pp.86-108.
- **Dr. Sudipta De**
 - Ray A, **De, S***, Assadi M. (2018): Cost Optimization of a Polygeneration Using Renewable Resources. **Springer Proceedings in Energy (Accepted)**.
 - Ray, A. and **De, S.*** (2018): Polygeneration Using Renewable Resources: Cost Optimization Using Linear Programming, **Process Integration and Optimization for Sustainability (Springer)**, (<https://doi.org/10.1007/s41660-018-0053-2>) (**Article in press**).
 - Ray, A., Jana, K., Assadi, M., **De, S.*** (2018): Distributed polygeneration using local resources for an Indian village: multi-objective optimization using metaheuristic algorithm. **Clean Technologies and Environmental Policy (Springer)** (doi: 10.1007 /s10098-018-1562-y) (**Article in press**).
 - **Dr. Prasanta Sahoo**
 - Swagatam Paul, Partha Dey, Snehasish Bhattacharjee, Sanjib Kumar Acharyya, **Prasanta Sahoo**, Jayanta Chattopadhyay, Phenomenological modeling of flow behavior of 20MnMoNi55 reactor pressure vessel steel at cryogenic temperature with different strain rates, *Defense Technology*, 2018, <https://doi.org/10.1016/j.dt.2018.08.007>
 - A Mukhopadhyay, TK Barman, **P Sahoo**, J Paulo Davim, Comparative Study of Tribological Behavior of Electroless Ni–B, Ni–B–Mo, and Ni–B–W Coatings at Room and High Temperatures, *Lubricants*, 2018, 6(3), 67.
 - A Mukhopadhyay, TK Barman, **P Sahoo**, Tribological characteristics of electroless Ni–B–Mo coatings at different operating temperatures, *Surface Review and Letters*, 2018, 1850175.

- Smrutiranjana Pradhan, Tapan Kr. Barman, **Prasanta Sahoo**, Sarmila Sahoo, Tribological behavior of Al-5% SiC metal matrix composite in sodium hydroxide environment, *Materials Today: Proceedings* 2018, 5, 8057–8064
- Sanjib Kundu, Suman Kalyan Das, **Prasanta Sahoo**, A parametric investigation of high temperature friction performance of electroless Ni-P deposits, *Materials Today: Proceedings* 2018, 5, 8547–8556
- Sarkar, P., Modak, N. and **Sahoo, P.**, Mechanical and Tribological Characteristics of Aluminium Powder filled Glass Epoxy Composites, *Materials Today: Proceedings* 2018, 5, 5496–5505
- Suswagata Poria, Goutam Sutradhar and **Prasanta Sahoo**, Design of Experiments Analysis of Wear Behavior of Stir Cast Al-TiB₂ Composite in Lubricated Condition, *Materials Today: Proceedings* 2018, 5, 5221–5228
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- Suswagata Poria, Goutam Sutradhar and **Prasanta Sahoo**, Wear and friction behavior of Al-TiB₂-nano-Gr hybrid composites fabricated through ultrasonic cavitation assisted stir casting, *Mater. Res. Express* 2018, 5, 056509
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- S Kundu, SK Das, **P Sahoo**, Tribological Behaviour of Electroless Ni-P Deposits Under Elevated Temperature, *Silicon*, 2018, 10, 329-342.
- A Mukhopadhyay, TK Barman, **P Sahoo**, Effect of Operating Temperature on Tribological Behavior of As-Plated Ni-B Coating Deposited by Electroless Method, *Tribology Transactions*, 2018, 61(1), 41-52.
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- Sarkar, P., Modak, N. and **Sahoo, P.**, Mechanical Characteristics of Aluminium Powder Filled Glass Epoxy Composites, *International Journal of Engineering and Technologies*, 2017, 12, 1-14.
- A. Waghmare, **P. Sahoo**, Adhesive Friction Based on Accurate Elastic-Plastic Finite Element Analysis and n-Point Asperity Concept, *International Frontier Science Letters*, 2017, 11, 1-28.
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- A Mukhopadhyay, S Duari, T K Barman, **P Sahoo**, Tribology of Electroless Ni-P Coating Under Lubricated Condition: An RSM and GA Approach, *International Journal of Surface Engineering and Interdisciplinary Materials Science*, 2017, 5(1), 37-57.
- T Jana, A Mitra, **P Sahoo**, Dynamics of Deformable Fractal Surface in Contact with Harmonically Excited Rigid Flat, *International Journal of Manufacturing, Materials, and Mechanical Engineering*, 2017, 7(2), 40-64.
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- A Mukhopadhyay, T K Barman, **P Sahoo**, Effects of heat treatment on tribological behavior of electroless Ni–B coating at elevated temperatures, *Surface Review and Letters*, 2017, 1850014.
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- **Prof. Himadri Chattopadhyay**
 - Suvanjan Bhattacharyya, Himadri Chattopadhyay, Anindya Guin, Ali Cemal Benim, Investigation of Inclined Turbulators for Heat Transfer

Enhancement in a Solar Air Heater, Heat Transfer Engineering, 2018, 1-28

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 - Himadri Chattopadhyay, Sudip K Samanta, Gautam Biswas, Bharat B Sharma, Direct numerical simulation of evaporation in a biporous media, Journal of Mechanical Science and Technology, 2017, 31(6), 2635-2641.
- **Dr. Dipankar Sanyal**
 - B. Halder, R. Saha, D. Sanyal, 2017, Semi-isotropic Design of Stewart Platform through Constraint Optimization, Proc. IMechE Part C: Journal of Mechanical Engineering Science, **231**(10), 1897-1906, DOI: 10.1177/0954406215623576.
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Electrohydraulic Actuation System: System Characterization with Validation, *Journal of Braz. Soc. Mech. Sci. Engg.*, **39**, 1177–1187.

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- **Dr. Debabrata Das**

- Paul, **D. Das**, Free vibration behavior of a thermally post-buckled FG Timoshenko beam under large deflection using a tangent stiffness-based method. *Mechanics of Advanced Materials and Structures*, **25**, 982-994, 2018.
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- S. Pal, D. Das, A tangent stiffness–based approach to study free vibration of shear deformable functionally graded material rotating beam through a geometrically non-linear analysis. *Journal of Strain Analysis for Engineering Design*, **52**, 310-332, 2017.
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- **Dr. Anirban Mitra**

- Tamonash Jana, Anirban Mitra, Prasanta Sahoo, “Dynamics of Deformable Fractal Surface in Contact with Harmonically Excited Rigid Flat”, *International Journal of Manufacturing, Materials, and Mechanical Engineering*, 2017, vol. 7(2), pp. 38-62. DOI: 10.4018/IJMMME.2017040103.
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Prof. Goutam Pohit

- Sahoo, Bamadev, Panda, L.N. and Pohit, G., “Stability, Bifurcation and Chaos of a Traveling viscoelastic Beam tuned to 3:1 Internal Resonance and subjected to Parametric Excitation,” *International Journal of Bifurcation and Chaos*, Vol. 27, No. 2, 2017, pp 1-20.
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- Sengupta, A. and Pohit G., “Piezoelectric energy harvester using torsional vibration”, *Proceedings of the 1st International Conference on Mechanical Engineering(INCOM18)*, Jadavpur University, Kolkata, India, January 4 – 6, 2018.
- Panigrahi B., Pohit G., “Influence of higher order harmonics on nonlinear forced vibration of Timoshenko beams”, *Proceedings of the 1st International Conference on Mechanical Engineering(INCOM18)*, Jadavpur University, Kolkata, India, January 4 – 6, 2018.
- Barethiye V., Pohit G., Mitra A., “Active suspension system for nonlinear half car model”, *Proceedings of the 1st International Conference on Mechanical Engineering(INCOM18)*, Jadavpur University, Kolkata, India, January 4 – 6, 2018.
- Banerjee A., Pohit G., “Crack detection by vibration experiment data using cascade Neuro-GA hybrid technique”, *Proceedings of the 1st International Conference on Mechanical Engineering(INCOM18)*, Jadavpur University, Kolkata, India, January 4 – 6, 2018.

4. Collaborative Programmes:

Dr. Sudipta De

- Visited and made research presentations in Kings College, London, UK in April 2017 as Faculty Member of Project E-QUAL.
- Visited and made research presentations in University of Bologna, Italy in April 2017 as Faculty Member of Project E-QUAL.
- Visits to Norway as Indian Coordinator of Indo-Norwegian Cooperation Program and UTFORSK project (2018-2019) between Norway and BRICS countries and Japan.

Dr Anindya Sundar Das

- Collaborative research project titled “Investigation of the Performance of a Rotor-Shaft System Supported on Magnetic-Bearings mounted on a Maneuvering Marine Vessel based on the Stability and Vibration Response” funded by NRB, DRDO. Collaboration with Prof. J.K. Dutt, IIT Delhi.

5. Major Achievements :

Dr. Gautam Majumdar

- Nominated Section Editor for **RESM (Encyclopaedia in Renewable & Sustainable Materials) Project (April 2017 to February 2010)** of Elsevier (UK).

Dr. Sudipta De

- **Key Resource Person, Energy and Environment Committee, The Bengal Chamber of Commerce and Industry, Kolkata.**

April 2017 – March 2018

NEWS LETTER

Prof. Sadhan Kumar Ghosh

Major Research Project: (Departmental / Individual, Name of the Project/
Funding agency).

International Research Projects (Funded) ongoing - Prof Sadhan K Ghosh as Principal Investigator

1. **European Union : Horizon 2020 Research projects from European commission (July 2018 – June 2022)** PI from Jadavpur University, Project Entitled, ” India H2O bio-mimetic and phyto-techNologies DesIghned for low-cost purfic Action and recycling of water - Approved will be started soon. Project has 20 participating organizations fro eight countries- India, UK, Denmark, Singapore, Spain, Netherlands and Israel. Prof Sadhan K Ghosh is as Principal Investigator at Jadavpur University.
2. **Asian Productivity Organisation (APO), Japan and China Productivity Council, Taiwan** (May 2016 – continued) : **Research Project**, “Green Productivity for the Base of the Pyramid for Sustainable Development in APO Member Countries”. Lead Partner : National Taipei University of Technology, Taiwan; Partners : India, represented by Jadavpur University; Central Institute for Economic Management, Vietnam; National Environment Board, Thailand Ministry of Natural Resources and Environment; PT Aicón Global Indonesia, Indonesia; Malaysia Productivity Corporation (MPC), Malaysia; William Davidson Institute at the University of Michigan; USA; Funding Agencies : APO, Japan and CPC, Taiwan – 30,000 USD.

Collaborative International Research Projects (Non-Funded) ongoing - Prof Sadhan K Ghosh as Principal Investigator

1. **UNCRD, ISWMAW, CRIC (Consortium of researchers in international collaboration) Research Project** : International Collaborative Research Project on, "Global Status of implementation of Circular Economy" (2018-2021), participated by experts as country leaders from thirty four countries. Prof Sadhan K Ghosh is the Project Leader. Prticipating countries : India, Austria, Australia, Bangladesh, Brazil , Canada, China, Egypt, Ecuador, Germany, Indonesia, Israel, Italy, Japan, Kenya, Lebanon, Lao DPR, Malaysia, ,Mauritius , New Zealand, , Norway, Nigeria, Netherlands, Rep. of Korea, Rep. of South Africa, Russian Federation, Serbia , Samoan Islands, Soudi Arabia, Sri Lanka, Thailand, UNCRD; Japan, USA , U and Vietnam.
2. **International Collaborative Research Project (2018-2019) on E-waste Management** : "E-waste management in the Asia and the Pacific Countries" - Project Leader : Prof. Sadhan K Ghosh, Other participating University: Tsinhua University, China; University of Malaya, Malaysia, Kyonggi University, S. Korea, Griffith University, Australia and Center for Material Cycles and Waste Management Research, Japan.

- 3. India & Italy** : Collaborative Research Project on “*Sustainable Development Goals – Realisation in Global Perspective*” (June 2016 – December 2019) : Partners : Jadavpur University, India; LAR⁵ Laboratory – Dipartimento di Ingegneria, University of Perugia, Perugia, Consortium of Researchers in International Collaboration (CRIC) and International Society of Waste Management, Air and Water (ISWMAW).

Invited lectures delivered / Session Chaired (2018-19)

Lectures delivered in foreign Countries by Prof. Sadhan K. Ghosh

Foreign Countries

- 1. Japan** : Invited by the UNCRD/UN DESA, delivered the speech on the inputs on 3R in India on June 24-25, 2017 in Tokyo in the UNCRD meeting.
- 2. USA, The Opening Plenary Speech in Annapolis, Maryland, Washington DC** : on “Zero Waste, Zero Landfill”, in the Thirty Third International Conference on Solid Waste Technology and Management, by Widener University, USA held during March 19-22, 2018.
- 3. China, Tsinghua University, China** : Plenary Speech on “Bio Waste Management in India, SBM and Legislative Support” in International Conference on Waste Management and Technologies” in Beijing, during March 22-24, 2018.
- 4. Indonesia** : Conducted Seminar on Sustainable Development during March 26-27, 2018 at the Walisongo, Islam University in Semarang invited by Walisongo, University in Semarang, Indonesia.
- 5. Indonesia** : Conducted workshop on "*Writing Research Articles*" on March 28, 2018 at the Walisongo, Islam University in Semarang invited by Walisongo, University in Semarang, Indonesia for the teachers and research scholars.

In India

- 6. Ranchi**: Delivered speech on " *SWM Rules 2016 and its implementation*" at the Community Hall, Ranchi, invited by the CPCB & NPT, Govt of India, organised by CPCB & MoHUA, Govt of India in May 2017.
- 7. Bhubaneswar** : Delivered speech on " *SWM Rules 2016 and its implementation*" at the Bhubaneswar, invited by the CPCB & NPT, Govt of India, organised by CPCB & MoHUA, Govt of India in August 2017.
- 8. Bhubaneswar, August 2017** : Delivered Keynote speech on " *Smart City- Sustainable Urban Management, SWM Rules 2016 and its implementation*" at the Mayfair Hotel, Bhubaneswar, invited and organised by by the University of Heidelberg University, Germany & Consul General of Germany at Delhi.
- 9. Kolkata , ATI** : April 12, 2017 : Invited speaker for the Workshop for C&D Waste Management and its implementation at municipal level at the ATI, Salt Lake organised by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH..

10. **Kolkata, JU** : April 11, 2017 : Speaker for "Entrepreneurs on C&D Waste Processing and Utilization: at Jadavpur University organised by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and CQMS, JU and ISWMAW.
11. **Hyderabad** : Spoke in the inaugural and valedictory programme of the 7th IconSWM held at PJTS Agricultural University, Hyderabad, Telangana during December 15-17, 2017.

Session Chaired

Description	Date	Venue
Chaired the Technical Session in the Thirty Second International Conference on Solid Waste Technology and Management, Philadelphia, Widener University, USA held during March, 2018	March 2018	Annapolis, Maryland, Washington DC USA
Chaired the 7th International Conference on Solid Waste Management, 7th IconSWM held at PJTS Agricultural University, Hyderabad, Telangana during December 15-17, 2017.	December 15-17, 2017	PJTS Agricultural University, Hyderabad, Telangana
Chaired Technical Session in the China, Basel Convention Regional Centre for Asia and the Pacific, Beijing, March 2018	March 2018	Tsinghua University, China
Chaired Technical session in 6 th International Conference on SWM held at Jadavpur University, by the CQMS, JU, IISc Bangalore, IIT Kgp, TERI & International Society of Waste Management, Air and Water (ISWMAW)	on 25 th November 2015	Gandhi Bhaban, Jadavpur University
Chaired the Technical Session in the 32 nd International Conference on Solid Waste Technology and Management, Philadelphia, Widener University, USA held during March 19-22, 2017.	March 21, 2016	The Warwick Hotel, Philadelphia, USA
Chaired the CRIC meeting (Consortium of Researchers in International Collaboration) attended by 21 countries at USA.	March , 2018	Annapolis, Maryland, Washington DC USA

Conference attended by Prof Sadhan K Ghosh

1. Thirty Second International Conference on Solid Waste Technology and Management, Philadelphia, Widener University, USA held during March, 2018, AT **Annapolis, Maryland, Washington DC**
2. 13th International Conference on Waste Management and Technology at Beijing, China during mARCH 22-24, 2018 by Basel Convention Regional Centre for Asia and the Pacific, Tshinhua University, Beijing.

3. 7th International Conference on Solid Waste Management, 7th IconSWM 2016 at PJTS Agricultural University, Hyderabad, Telangana, India, by International Society of Waste Management, Air and Water (ISWMAW), CQMS, Jadavpur University, TERI, IIT Kgp., IISc Bangalore and KWSA, JSMCWM.
4. 3R Forum on Asia Pacific organized by UNCRD and Govt of Australia, during November 2-4, 2016 at Adelaide Convention Centre, Adelaide, SA, Australia.

Seminar / Conference / Symposium organized by Prof Sadhan K Ghosh

1. 7th International Conference on Solid Waste Management, 7th IconSWM 2016 at PJTS Agricultural University, Hyderabad, Telangana, India, by International Society of Waste Management, Air and Water (ISWMAW), CQMS, Jadavpur University, TERI, IIT Kgp., IISc Bangalore and KWSA, JSMCWM.
2. C&D Waste Management, Processing and Utilization: at Jadavpur University organised by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and CQMS, JU and ISWMAW on April 11, 2017.
3. WED (World Environment Day) Celebration Workshop On 5th June 2017 :Introducing the segregated collection system at Jadavpur University. Inaugurated the 3Bin System for waste Segregation in Jadavpur University.
4. Indo - Taiwan Workshop on 12th August by CQMS, JU and Fu Jen Catholic University.

Publications by Prof Sadhan K Ghosh

Published in International Journal during 2017-18

1. Francesco Di Maria, Federico Sisani, Stefano Contini, **Sadhan K. Ghosh**, (2018). Impact of different schemes for treating landfill leachate, *Waste Management* 71 (2018) 255–266.
2. Anaya Ghosh, Biswajit Debnath, **Sadhan Kumar Ghosh**, Bimal Das, Jyoti Prakas Sarkar (March 2018) , Sustainability analysis of organic fraction of municipal solid waste conversion techniques for efficient resource recovery in India through case studies, *Journal of Material Cycles and Waste Management* (2018) 20:1969–1985; <https://doi.org/10.1007/s10163-018-0721-x>Received: 17 June 2017 / Accepted: 23 February 2018 / Published online: 9 March 2018 (**Impact Factor: 1.604**).
3. Dasgupta, Raktim & Mukhopadhyay, Arup & **Ghosh, Sadhan**. (2017). Reduction of lead time through curtailment of cycle time of a supplier-a case example. *International Journal of Engineering Trends and Technology*. Vol. 54. 233-251. 10.14445/22315381/IJETT-V54P233.
4. Debnath, B., Chowdhury, R., **Ghosh, S. K.** (2018). Sustainability of metal recovery from e-waste. *Frontiers in Environmental Science and Engineering*, 12(6):2. (DOI: 11007/s11783-018-1044-9) (**Impact Factor: 1.716**) [Online publication awaited].

Conference Proceeding 2017-18

1. **Sadhan Kumar Ghosh, (2018)**, Zero Waste and Zero Landfill, Proceedings of the 33rd International Conference on Solid Waste Technology and Management, Widener University, Annapolis, USA, March 11-14, 2018.
2. Debnath, B., Banerji., A., Chowdhury., R. & **Ghosh, S.K.** (2018). *Kinetic Studies on FR-4 type Waste Printed Circuit Board (PCB) Pyrolysis*. Recycle 2018, 2nd International Conference on Waste Management. IIT Guwahati, India, 22-24 February, 2018.
3. Debnath, B., **B.**, Chowdhury., R. & **Ghosh, S.K.** (2018). *Recycling of WEEE Polymers: Issues, Challenges and Opportunities*. International Conference on Advanced Polymeric Materials (APM 2018), pp. 196, CIPET, Bhubaneswar, India, 2-4 February, 2018.
4. Debnath, **B.** **Ghosh, S.K.** (2018). *Sustainable utilization of Polymeric Materials recovered from E-waste*. International Conference on Current Trends in Materials Science and Engineering (CTMSE 2018), pp. 101, Hyderabad, India, 19-20 January, 2018.
5. Debnath, B., Chowdhury., R. & **Ghosh, S.K.** (2017). *Studies on sustainable material recovery via Pyrolysis of WEEE*. Indian Chemical Engineering Congress (Chemcon 2017) pp. 31-33, Haldia, India, 27-30 December, 2017.
6. **Sadhan K. Ghosh**, F. Di maria (2017), A comparative study of issues, challenges and strategies of bio-waste management in India and Italy, Sardinia_2017, 16th International Waste Management and Landfills Symposium, S. Margharita De Pula (CA), Italy, October 206, 2017.
7. Debnath, B, **B.**, Ghosh., A. & **Ghosh, S.K.** (2017). *Sustainability of MSW treatment technologies in India*. Indian Chemical Engineering Congress (Chemcon 2017) pp. 10-12, Haldia, India, 27-30 December, 2017.
8. Debnath, B., Chowdhury., R. & **Ghosh, S.K.** (2017). *Supply Chain Analysis for Metal Recovery from E-Waste (MREW) Facility focusing on Pyrolysis as a pre-treatment process*. 7th International Conference on Solid Waste Management (7thIconSWM), pp. 1125 – 1131, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)
9. Debnath, B., **Ghosh, S.K.** (2017). *A Generalised Discussion on Hydrogen Generation from Biorefinery Waste Streams from the Perspective of Sustainability*. 7th International Conference on Solid Waste Management (7thIconSWM), pp. 244, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)
10. Debnath, B., Alghazo, J.M., Latif., G., Roychoudhuri, R., & **Ghosh, S.K.** (2017). *An analysis of Data Security and potential threat from IT assets for Middle Card players, Institutions and Individuals*. 7th International Conference on Solid Waste Management (7thIconSWM), 1057-1070, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)
11. Debnath, B., Ghosh, A., Prathima., B., Birawat, K., & **Ghosh, S.K.** (2017). *Status of Composting for OFMSW treatment in Karnataka and West Bengal: Case Studies and Sustainability*. 7th International Conference on Solid Waste Management (7thIconSWM), 1432-1442, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)

12. Dutta, N., Ghosh, A., Debnath, B., & **Ghosh, S.K.** (2017). *Climate Change in Hilly Regions of India: Issues and Challenges in Waste Management*. 7th International Conference on Solid Waste Management (7thIconSWM), 1443-1452, Hyderabad, India, 15-17 December, 2017. **(Publication in Springer Book Chapter Awaited)**
13. Debnath B., Roychoudhuri., R., and **Ghosh S. K.**, *Risk Assessment of E-waste Recycling with a focus on ISO 9000 Standard*. 7thInternational Conference on Solid Waste Management (7thIconSWM), 1175-1182, Hyderabad, India, 15-17 December, 2017. **(Publication in Springer Book Chapter Awaited)**
14. Debnath, B., & **Ghosh, S.K.** (2017). *Sustainability of Energy generation from Biorefinery Waste*.International Conference on Energy Options for Tomorrow: Technology to Sustainability (ICEOT 2017), Eco Vista, Kolkata, India, 17-19 April, 2017, pp.164-176.
15. Baidya, R., Saha, I., Bhattacharya, T., **Ghosh, S. K.**, (2018), Supply chain robustness of waste transportation in Kolkata using DBMS and Image sensing. Innovative Digitization Techniques towards Mission Digital India – (IDT-MDI, 2018), 12th-13th January 2018.
16. Mukherjee, T., Baidya, R., **Ghosh, S. K.**, (2018), Model for Prediction of MSW Generation in India Using Artificial Neural Network (ANN), Innovative Digitization Techniques towards Mission Digital India – (IDT-MDI, 2018), 12th-13th January 2018.
17. Baidya, R., **Ghosh, S. K.**, & Parlikar, U. V. (2017). Blast Furnace Flue Dust Co-processing in Cement Kiln – A Pilot Study, IconSWM – 2017, Hyderabad, 15 – 17, December. . (Publication in Springer Book Chapter Awaited)
18. Baidya, R, Bhattacharya, T, Kumar, G., **Ghosh, S.K.**, DecentralisedUtilization of Urban Biomass Waste and Solar Energy for Cooling System – A Proposed Model, IconSWM – 2017, Hyderabad, 15 – 17, December. . (Publication in Springer Book Chapter Awaited)
19. Dutta, K., Baidya, R., **Ghosh, S.K.**, (2017) NDT Process Selection in Petrochemical Construction Site through Strategic Application of the Analytical Hierarchy Process, International Conference on Energy Options for Tomorrow: Technology to Sustainability (ICEOT 2017), 17 – 19 April 2017, Kolkata, India, pp 100-106.
20. Mukherjee, T., Baidya, R., **Ghosh, S. K.**, (2018) Model for Prediction of MSW Generation in India Using Artificial Neural Network (ANN). The 33rd International Conference on Solid Waste Technology and Management, USA, March 11-14, 2018.
21. Ipsita Saha, Amit Kundu, **Sadhan Kumar Ghosh** “ Exploring the rationale between ERP and EPR in Asian Countries using cloud based Approach” Accepted and invited for oral presentation at 7th International Conference on Solid Waste Management at PJTSAU, Hyderabad, Telenganaon 15th -17th December,2017 **(Publication in Springer Book Chapter Awaited)**.
22. Ipsita Saha, Amit Kundu, **Sadhan Kumar Ghosh** “Organizational Perspective of Critical Success factor to establish ERP as a Sustainable Solution” at 11th ISDSI International Conference at Indian Institute of Management Tiruchirappalli on December 28 – 30, 2017.
23. Ipsita Saha, AmitKundu, **Sadhan Kumar Ghosh**“Cloud Computing Based Sustainable Approach towards E-waste Management in India” Accepted and invited for oral presentation at International Conference on Waste Management “RECYCLE-2018” at Indian Institute of Technology Guwahati, Guwahati, India on 22-24 February,2018._

24. Ipsita Saha, Amit Kundu, **Sadhan Kumar Ghosh** “Exploring the rationale between ERP and EPR in Asian Countries using cloud based Approach” is selected for the book chapter publication being published by Springer with book title: “Sustainable Waste Management : Policies and Case Studies”, 7th IconSWM – ISWMAW 2017, Volume 1

Books as Editor

Edited volume /Int. Journal as Chief Editor / Editor / Associate Editor by Prof Sadhan K Ghosh

In Progress:

1. **Chief Editor** : Proceedings of 7th IconSWM in Two Volumes, in December 2017
2. **Associate Editor, Special issue** of International Journal of Materials Cycle and Waste Management, Member Technical Committee of 4th 3RINCs, April 2017.
3. **Appointed the Editor** of the Book, “Waste Management and Resource Efficiency”, Proceedings of 6th IconSWM 2016, in publication due in Sept 2018; Springer Publication, ISBN 978-981-10-7290-1;
2. **Appointed the Editor** of the book volume : Sustainable waste management: Policies & Case Studies : Proceedings of 7th IconSWM 2017, Due in Dec 2018, Springer Publication.
3. **Appointed the Editor** of the book volume :Waste Water Recycling and Management: Proceedings of 7th IconSWM 2017, Due in Dec 2018, Springer Publication.
4. **Appointed the Editor** of the book volume : Waste Valorisation and Recycling Technology : Proceedings of 7th IconSWM 2017, Due in Dec 2018, Springer Publication.

Outstanding Achievement of Prof Sadhan Kumar Ghosh in 2017-18:

1. **European Union : Horizon 2020 Research projects from European commission (July 2018 – June 2022)** : Received the Horizon 2020 Project Entitled, ” India H2O bio-mimetic and phyto-techNologies DesIgned for low-cost purfic Action and recycling of water - Approved will be started soon. Project has 20 participating organizations fro eight countries- India, UK, Denmark, Singapore, Spain, Netherlands and Israel. Prof Sadhan K Ghosh is as Principal Investigator at Jadavpur University.
2. **International Expert of UNCRD** (United Nations Centre for Regional Development) : Consultant of UNCRD/ DESA for preparation of the country document on the “3R status in India” for publication of the book SUPPORTED BY iejs, and Ministry of Environment, Japan.
3. **Invited & delivered the Opening Plenary Speech in Philadelphia, USA in 32nd** International Conference on Solid Waste Technology and Management, on “3R and Circular Economy in Waste Management”, by Widener University, USA held during March , 2018.
4. **Selected as the Chairman**, 8th International Conference on Sustainable Waste Management, 8th IconSWM 2018 to be held at Acharya Nagarjuna University, Vijayawada, India to be held during November 22-24, 2018 organised by the Government of Andhra Pradesh, ISWMAW, IISc, CRIC, CQMS JU, KSWA , TERI, APPCB and JSMCWM.

Annual Report 2017-2018(1st April, 2017-31st March, 2018)

Department: Metallurgical and Material Engineering Department

1. A. Courses Offered: 4 - Year BE degree in Metallurgical Engg.
2 - Year ME degree in Industrial Metallurgy
2- Year M.Tech degree in Material Engineering

Undergraduate Students: 42 Nos.

ME degree in Industrial Metallurgy Students: 10 Nos.

M.Tech degree in Material Engineering Students: 18 Nos.

B. Number of Faculty Members: 06 Nos.

A. Area of Research Activities (Broad Areas):

2. Nano Materials, Extraction of Metals, Melting & Solidification, Corrosion behavior of Metal & Material, Deformation Fatigue & fracture of materials, Welding Technology, Thermodynamics and Kinetics, Chemical/Extractive Metallurgy, Transport Phenomena, Material Processing, Archaeo Metallurgy, Waste utilization. Chemical Processing, Composites, Nanocomposites, Metal Matrix Composites, Metal-Ceramic, Mineral Processing, Nanostructured Materials, Ceramic Materials, Welding/Joining, Electrode development. Materials processing and characterization, Phase transformation in metals and alloys, Mechanical Behaviour of Materials, Electrochemistry and Corrosion, High Energetic Electrode Materials, Fuel Cell, Battery, Electrochemical Energy, Modeling, Simulation and Engineering Software, Materials Extraction from waste by green, pollution free processes

B. Major Research Project:

AMRITA KUNDU

FUNDED PROJECT

Title of the Project	Funding Agency	Period	Amount
Faculty Training and Internationalization (2016-17) Grant (Principal Investigator)	Shastri Indo-Canadian Institute	2016-2017	CAD\$ 5,000.00
Cyclic Plastic Deformation Behaviour of 304LN Austenitic Stainless Steel at Room Temperature to 550 deg C (Principal Investigator)	DST (GOI)	2016-2019	Rs. 40 Lakhs
Development of mixed microstructure by thermomechanical processing of steel and its influence on mechanical properties (Sole Investigator)	DST (GOI)	2012-2017	Rs. 35 Lakhs
Mechanical and corrosion behaviour of LASER welded dual phase steel (Sole Investigator)	University Grant Commission (GOI)	2015- 2017	Rs. 6 Lakhs

PRAVASH CHANDRA CHAKRABORTI

FUNDED PROJECT

Title of the Project	Funding Agency	Period	Amount
Evaluation of creep crack growth (CCG) behaviour for Alloy 617 Base and Weld materials (PROJECT LEADER)	Indira Gandhi Centre for Atomic Research, Kalpakkam	2017-2019	Rs. 512.34 lacs.
Evaluation of creep crack growth (CCG) behaviour for Alloy 617 Forgings (PROJECT LEADER)	Indira Gandhi Centre for Atomic Research, Kalpakkam	2017-2019	Rs. 458.28 lacs
Generation of Creep-Fatigue Interaction Properties of Alloy 625 (PROJECT LEADER)	Indira Gandhi Centre for Atomic Research, Kalpakkam	2017-2019	Rs. 469.82 lacs.

3. A. Invited Lectures Delivered/Sessions Chaired:

B. Seminar/Workshop/Conference/Symposium Attended:

Dr. RajibDey

Name of the Seminar/Workshop/Conference/Symposium	Place	Duration
Seminar on Mass Spectroscopy :NexION&Qsight Perkin Elmer	Hotel Radisson	One day
Symposium on Union Budget 2018-19 : An In depth Analysis BCC&I, The Bengal Chamber	Hotel Oberoi Grand	One day
Millennial Learning - Educational Strategies for the Next Generation BCC&I, The Bengal Chamber	Hotel Hyatt Regency	One day
Metals Conclave 2018 : Steel Intensive Growth : Pathwayfor India BCC&I, The Bengal Chamber	Hotel Lalit Great Eastern	One day
Waste Management in Metallurgical Industries : Effective Industry Practices & research Initiatives CGCRI, Millenium Institute of Energy & Environment &IIM Kolkata Chapter	CGCRI	One day
Advancement in Technology for Production & Processing of Steels : Application of Industry 4.0Steel Tech	Hotel ITC sonar	One day
Usage of Structural Steel and Stainless Steel in Architecture Building & Construction Sector Nickel Institute &INSDAG	Hotel Pride	One day
Infrastructure Summit 2017 BCC&I, The Bengal Chamber	HotelNovotel	One day
<u>Dr. SathiBanerjee</u>		

Workshop on Materials Characterisation Techniques, COE, TEQIP Jadavpur University	Jadavpur University	One day
Indo-Belgian workshop on Crystallography & Texture	IEST, Shibpur	3 days
Deformation and Texture of Materials, COE, TEQIP Jadavpur University	Jadavpur University	One day
Initiatives in Outcome Based Education and NBA Accreditation, Engineering Staff College of India	Hotel Hyatt Regency, Kolkata	Three days
Prof. Pravash Chandra Chakraborti		
Deformation and Texture of Materials, COE, TEQIP Jadavpur University	Jadavpur University	One day
Symposium on Fatigue, Fracture and Integrity Assessment, 23- 24 march, 2017	Jadavpur University	Two days
Workshop on Materials Characterisation Techniques, COE, TEQIP Jadavpur University	Jadavpur University	One day

3.C. Seminar/Workshop/Conference/Symposium Organised:

Dr. RajibDey:-

Name of the Seminar/Workshop/Conference/Symposium	Place	Duration
National Symposium on Automation and Digitization of Metal, Oil and Power Sector :Metallix - 18 Natioanl Student Metallurgists Meet.	Department of Metallurgical & Material Engineering, Jadavpur University	One day
Workshop on Coking coal in Indian Steel industry - issues & challenges, SAIL & IIM Kolkata Chapter	Hotel Lalit Great Eastern	One day
National Seminar on Green Recycling of Used Lead Batteries ILZDA, IIM Kolkata Chapter & MIEEM	CGCRI	One day

Dr. Sathi Banerjee:-

Name of the Seminar/Workshop/Conference/Symposium	Place	Duration
National Seminar on “Automation and Digitization of Metal, Oil and Power Sector ” and a student event “Metallix” on 9-10 March, 2018.	Jadavpur University	Two days

Prof. Akshay Kumar Pramanick:-

Name of the Seminar/Workshop/Conference/Symposium	Place	Duration
National Seminar on “Automation and Digitization of Metal, Oil and Power Sector” and a student event “Metallix” on 9-10 March, 2018.	Jadavpur University	Two days

D. Orientation Courses/Refresher Courses Attended:

Dr. Sathi Banerjee:-

Attended a faculty Development program on “Design and Analysis of Experiments” at ISI, Kolkata from 6th – 11th Nov, 2017.

E. Orientation Courses/Refresher Courses Organized:

Dr. A.Kundu:-

Course coordinator of Global Initiative of Academic Network (GIAN) Course on Microstructure and Texture of Material during 7th Feb to 15th Feb 2018 at Jadavpur University. Foreign Faculty was Prof. David P. Field, Washington State University, USA.

4. A. Books/Monographs etc. Published:

Prof. Subil Paul:-

1. Subir Paul and Raj Krishna Paul , **Java Modeling and Simulation for Beginner to Advance**, Amazon Books, ISBN-10: 1980738556, ISBN-13: 978-1980738558, 2018, 414 pages ASIN: B07BWMTNH

2. Subir Paul **Corrosion and Protection of Materials: Understanding and Application** ,Amazon Books ISBN-13: 978-1521978801,2017,358 pages

B. Articles Published in Journals:

Sl. No.	Title	Journal's Name	Author
<u>Dr. RajibDey:-</u>			
1	Optimization of Quenching Parameters for the Reduction of Titaniferous Magnetite Ore by Lean Grade Coal Using the Taguchi Method and Its Isothermal Kinetic Study	Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science	B.K. Sarkar, N.Kumar, R. Dey, G.C. Das
2	Study on reduction kinetics of iron ore sinter using coke dust	International Journal of Metallurgical & Materials Science and Engineering (ijmmse)	ArghyaMajumder, Bitan Kumar Sarkar, MaharshiGhoshDastidar, Gopes Chandra Das &RajibDey
3	Nanomaterials in Relation to their Drug Delivery and Release Mechanisms: A Review Exemplified with some Herbal Drugs	World Journal of Pharmaceutical Research	Pritha Pal ,RajibDey, Satadal Das, MahuaGhoshChaudhuri
Sl. No.	Title	Journal's Name	Author
4	Effect of Naphthalene on Reduction Characteristics of Iron Ore Nuggets using Boiler Grade Coal	MGMI Transactions	RajibDey, ChanchalBiswas, MahuaGhoshChaudhuri
<u>Dr. Sathi Banerjee</u>			
1	“Solution Combustion Synthesis of Alumina Spinel and its characterization”,	Interceram, vol 67, 2018, p 35 - 41.	S. R. Ghosh, S. Mukherjee, S. Banerjee,
Sl. No.	Title	Journal's Name	Author
<u>Prof. S.Paul</u>			
1.	Prediction and Computation of Corrosion	Journal of Material	Subir Paul, RajdeepMondal

	Rates of A36 Mild Steel in Oilfield Seawater Mild Steel by A Homeopathic Medicine	Engineering and Performance, Springer, ASM, vol 27, 2018,ISSN: 1059-9495 (Print) DOI : 10.1007/s11665-018-3385-8	
2.	Electrochemical Development of Ni-Cu Electrodes by Direct and Pulse Current Coating in Ethanol Electro-oxidation for DEFC	<i>PortugaliaeElectrochimicaActa</i> 2018, 36(5), 293-307	Sujit Kumar Guchhait Subir Paul
3.	Synthesis and Characterization Electro Catalytic Al-Ni and Nano Graphite Electrodes for Rechargeable Al ion Battery	Current Catalysis 2018,7 Volume:7, Year : 2018 Pages:149-155 http://www.eurekaselect.com/161825/article	Subir Paul Tanuj Kumar
4.	Modeling And Computation By Artificial Neural Network Of Fracture Toughness Of Low Alloy Steel To Study The Effect Of Alloy Composition	International Journal of Modeling, Simulation, and Scientific Computing 2018 Vol. 9, No. 6 (2018) 1850051 (14 pages) c© World Scientific Publishing Company DOI:10.1142/S1793962318500514 https://doi.org/10.1142/S1793962318500514	Subir Paul ShibasishBhattacharjee
5.	Computation of Corrosion Rates of Steel with Variation of Cl-, SO4 2-, CO3 2-, HCO3 -, O2, CO2, pH and Temperature, Developed by Modeling with Artificial Neural	Innovations in Corrosion and Materials Science Volume 7 , Issue 2 , pp135-193, 2017 DOI:10.2174/2352094907666171016124420	Subir Paul, RajdeepMondal.
6.	Understanding the Material Science of Battery We Use Everyday,	Research and Review in Electrochem. 2017;8(1):105.	Subir Paul
7.	Electrochemical Oxidation of Biofuels Derived from Mango Wood Floor on Electrolytically Developed MnO2 Electrode To Produce Renewable Electrical Energy in Fuel Cell	Current Alternative Energy,Bentham Science Publishers 2017 vol 1, issue 1 pp 33-43 DOI : 10.2174/2405463102666170131115816	Subir Paul , Upendra Kumar
Prof. P.C.Chakraborti			
1.	Uniaxial ratcheting behaviour of dual-phase steel sheet	Materials Engineering and Performance, 27(7), 2018. Pages 3688-3698.	P.S. De, J.K.Mahato, A.Kundu, P.C. Chakraborti and M.Shome
2.	Ductile tearing resistance indexing of automotive grade DP590 steel sheets: EWF testing with DENT specimens	Materials Engineering and Performance, 27(4), 2018, Pages 2018-2023.	S. Sahoo, N. Padmapriya, P.S.De, P.C.Chakraborti and S.K.Ray
3.	Sintering and tribomechanical properties of gel-combustion-derived nano-alumina and its composites with carbon nanotubes	Journal of Materials Science, 53(12), 2018, Pages 8989-9001.	R. Halder, S. Sarkar, S. Bandyopadhyayand P.C.Chakraborti
Sl. No.	Title	Journal's Name	Author
4.	Asymmetric cyclic behavior of fine and coarse grained pure copper and aluminium	Lecture Notes in Mechanical Engineering, (9789811060014), 2018,	J. K. Mahato, P.S. De, A.Kundu and P.C.Chakraborti

		Pages 397- 411.	
5.	True stress-control ratcheting behavior cold-rolled interstitial free steel sheet:	Mechanics of Materials, 115, 2017, Pages 34 – 46.	P.De, J.K.Mahato, A.Kundu, P.C.Chakraborti and M.Shome
6.	<i>An automated approach for volume fraction measurement of titanium alloy using digital image processing:</i>	ACM International Conference Proceeding Series, Part F133140, 2017, Pages 95-99.	S.Banerjee, P.C.Chakraborti , S. Bhunia and S.K.Saha
7.	Strain energy based low cycle fatigue damage analysis in a plain carbon C-Mn rail steel:	<i>Materials Science and Engineering A</i> 594 (707), 2017, Pages 125-135.	P.P.Sarkar, P.S.De, S.K.Dhua and P.C.Chakraborti
Dr. A.Kundu			
1.	Geometrically Necessary Dislocation Density Evolution in Interstitial Free Steel at Small Plastic Strains,	Metallurgical and Materials Transaction A , Volume 49(8), 2018, Pages 3274-3282.	A. Kundu and D.P. Field,
2.	True stress-control ratcheting behaviour of cold-rolled interstitial-free steel sheet:	Mechanics of Materials , Volume 115, December 2017, Pages 34-46.	P. S. De, J. K. Mahato, A. Kundu , P. C. Chakraborti and M. Shome,
Prof. Akshay Kumar Pramanick:-			
1	Response of Austempering heat treatment in weld metal, HAZ and base metal of ADI weldments	International Welding Congress 2017, on 7 th to 9 th Dec 2017	TapanSarkar, Tapan Kumar Pal, Akshay Kumar Pramanick,
2	Effect of Cerium content in Austempered Ductile Iron (ADI) Weld metal,	1st International Conference on Mechanical Engineering, Jadavpur University (INCOM 2018), on 4-6 th January 2018,Kolkata, Published in Proceeding	TapanSarkar, Tapan Kumar Pal, Akshay Kumar Pramanick

5. Collaborative Programmes: Research programmes with TATA Steel Ltd, Jamshedpur, RDCIS, Ranchi, RINL, Vishakhapatnam, National metallurgical laboratory, Jamshedpur, Bhabha Atomic Research Centre, Mumbai, Titagarh Wagons ltd., Salem Steel Plant.

Sl. No.	Topic	Funding
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		Agency/Company
Dr. RajibDey		
1.	Physico-chemical Processing of Low Grade Chromite Ore for Beneficiation and Agglomeration of Fines for Recovery of Metal Values: Completed.	Ministry of Mines
2.	Design of Nano-Carriers for Sustained Release of Conventional Analgesic Drugs : Ongoing (2018 – till date)	WBDST
3.	Synthesis of Drug (Herbal Values) Entrapped Nano Material to Treat Cancer Disease and Other Disease Causing Organisms : Ongoing (2018 – till date)	WBDST

6. Major Achievements:

Prof. Pravash Chandra Chakraborti:-

Invited for participation in the National Mission Programme on Advanced Ultra Supercritical Power Plant project under the aegis BHEL-NTPC- IGCAR consortium.

Prof. RajibDey:-

Awarded by	Award name
The Mining, Geological and Metallurgical Institute of India	Indranil Award for Metallurgy for his Outstanding Contribution in Ferrous Metallurgy

Any Other Matters:-

Annual Report 2017-2018(1st April, 2017-31st March, 2018)

Department: Metallurgical and Material Engineering Department

1. A. Courses Offered: 4 - Year BE degree in Metallurgical Engg.
2 - Year ME degree in Industrial Metallurgy
2- Year M.Tech degree in Material Engineering

Undergraduate Students: 42 Nos.

ME degree in Industrial Metallurgy Students: 10 Nos.

M.Tech degree in Material Engineering Students: 18 Nos.

B. Number of Faculty Members: 06 Nos.

A. Area of Research Activities (Broad Areas):

2. Nano Materials, Extraction of Metals, Melting & Solidification, Corrosion behavior of Metal & Material, Deformation Fatigue & fracture of materials, Welding Technology, Thermodynamics and Kinetics, Chemical/Extractive Metallurgy, Transport Phenomena, Material Processing, Archaeo Metallurgy, Waste utilization. Chemical Processing, Composites, Nanocomposites, Metal Matrix Composites, Metal-Ceramic, Mineral Processing, Nanostructured Materials, Ceramic Materials, Welding/Joining, Electrode development. Materials processing and characterization, Phase transformation in metals and alloys, Mechanical Behaviour of Materials, Electrochemistry and Corrosion, High Energetic Electrode Materials, Fuel Cell, Battery, Electrochemical Energy, Modeling, Simulation and Engineering Software, Materials Extraction from waste by green, pollution free processes

B. Major Research Project:

AMRITA KUNDU

FUNDED PROJECT

Title of the Project	Funding Agency	Period	Amount
Faculty Training and Internationalization (2016-17) Grant (Principal Investigator)	Shastri Indo-Canadian Institute	2016-2017	CAD\$ 5,000.00
Cyclic Plastic Deformation Behaviour of 304LN Austenitic Stainless Steel at Room Temperature to 550 deg C (Principal Investigator)	DST (GOI)	2016-2019	Rs. 40 Lakhs
Development of mixed microstructure by thermomechanical processing of steel and its influence on mechanical properties (Sole Investigator)	DST (GOI)	2012-2017	Rs. 35 Lakhs
Mechanical and corrosion behaviour of LASER welded dual phase steel (Sole Investigator)	University Grant Commission (GOI)	2015- 2017	Rs. 6 Lakhs

PRAVASH CHANDRA CHAKRABORTI

FUNDED PROJECT

Title of the Project	Funding Agency	Period	Amount
Evaluation of creep crack growth (CCG) behaviour for Alloy 617 Base and Weld materials (PROJECT LEADER)	Indira Gandhi Centre for Atomic Research, Kalpakkam	2017-2019	Rs. 512.34 lacs.
Evaluation of creep crack growth (CCG) behaviour for Alloy 617 Forgings (PROJECT LEADER)	Indira Gandhi Centre for Atomic Research, Kalpakkam	2017-2019	Rs. 458.28 lacs
Generation of Creep-Fatigue Interaction Properties of Alloy 625 (PROJECT LEADER)	Indira Gandhi Centre for Atomic Research, Kalpakkam	2017-2019	Rs. 469.82 lacs.

3. A. Invited Lectures Delivered/Sessions Chaired:

B. Seminar/Workshop/Conference/Symposium Attended:

Dr. RajibDey

Name of the Seminar/Workshop/Conference/Symposium	Place	Duration
Seminar on Mass Spectroscopy :NexION&Qsight Perkin Elmer	Hotel Radisson	One day
Symposium on Union Budget 2018-19 : An In depth Analysis BCC&I, The Bengal Chamber	Hotel Oberoi Grand	One day
Millennial Learning - Educational Strategies for the Next Generation BCC&I, The Bengal Chamber	Hotel Hyatt Regency	One day
Metals Conclave 2018 : Steel Intensive Growth : Pathwayfor India BCC&I, The Bengal Chamber	Hotel Lalit Great Eastern	One day
Waste Management in Metallurgical Industries : Effective Industry Practices & research Initiatives CGCRI, Millenium Institute of Energy & Environment &IIM Kolkata Chapter	CGCRI	One day
Advancement in Technology for Production & Processing of Steels : Application of Industry 4.0Steel Tech	Hotel ITC sonar	One day
Usage of Structural Steel and Stainless Steel in Architecture Building & Construction SectorNickel Institute &INSDAG	Hotel Pride	One day
Infrastructure Summit 2017BCC&I, The Bengal Chamber	HotelNovotel	One day
<u>Dr. SathiBanerjee</u>		

Workshop on Materials Characterisation Techniques, COE, TEQIP Jadavpur University	Jadavpur University	One day
Indo-Belgian workshop on Crystallography & Texture	IEST, Shibpur	3 days
Deformation and Texture of Materials, COE, TEQIP Jadavpur University	Jadavpur University	One day
Initiatives in Outcome Based Education and NBA Accreditation, Engineering Staff College of India	Hotel Hyatt Regency, Kolkata	Three days
Prof. Pravash Chandra Chakraborti		
Deformation and Texture of Materials, COE, TEQIP Jadavpur University	Jadavpur University	One day
Symposium on Fatigue, Fracture and Integrity Assessment, 23- 24 march, 2017	Jadavpur University	Two days
Workshop on Materials Characterisation Techniques, COE, TEQIP Jadavpur University	Jadavpur University	One day

3.C. Seminar/Workshop/Conference/Symposium Organised:

Dr. RajibDey:-

Name of the Seminar/Workshop/Conference/Symposium	Place	Duration
National Symposium on Automation and Digitization of Metal, Oil and Power Sector :Metallix - 18 Natioanl Student Metallurgists Meet.	Department of Metallurgical & Material Engineering, Jadavpur University	One day
Workshop on Coking coal in Indian Steel industry - issues & challenges, SAIL & IIM Kolkata Chapter	Hotel Lalit Great Eastern	One day
National Seminar on Green Recycling of Used Lead Batteries ILZDA, IIM Kolkata Chapter & MIEEM	CGCRI	One day

Dr. Sathi Banerjee:-

Name of the Seminar/Workshop/Conference/Symposium	Place	Duration
National Seminar on “Automation and Digitization of Metal, Oil and Power Sector ” and a student event “Metallix” on 9-10 March, 2018.	Jadavpur University	Two days

Prof. Akshay Kumar Pramanick:-

Name of the Seminar/Workshop/Conference/Symposium	Place	Duration
National Seminar on “Automation and Digitization of Metal, Oil and Power Sector” and a student event “Metallix” on 9-10 March, 2018.	Jadavpur University	Two days

D. Orientation Courses/Refresher Courses Attended:

Dr. Sathi Banerjee:-

Attended a faculty Development program on “Design and Analysis of Experiments” at ISI, Kolkata from 6th – 11th Nov, 2017.

E. Orientation Courses/Refresher Courses Organized:

Dr. A.Kundu:-

Course coordinator of Global Initiative of Academic Network (GIAN) Course on Microstructure and Texture of Material during 7th Feb to 15th Feb 2018 at Jadavpur University. Foreign Faculty was Prof. David P. Field, Washington State University, USA.

4. A. Books/Monographs etc. Published:

Prof. Subil Paul:-

1. SubirPaul and Raj Krishna Paul , **Java Modeling and Simulation for Beginner to Advance**, Amazon Books, ISBN-10: 1980738556, ISBN-13: 978-1980738558, 2018, 414 pages ASIN: B07BWMTNH

2.Subir Paul **Corrosion and Protection of Materials: Understanding and Application** ,Amazon Books ISBN-13: 978-1521978801,2017,358 pages

B. Articles Published in Journals:

Sl. No.	Title	Journal's Name	Author
<u>Dr. RajibDey:-</u>			
1	Optimization of Quenching Parameters for the Reduction of Titaniferous Magnetite Ore by Lean Grade Coal Using the Taguchi Method and Its Isothermal Kinetic Study	Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science	B.K. Sarkar, N.Kumar, R. Dey, G.C. Das
2	Study on reduction kinetics of iron ore sinter using coke dust	International Journal of Metallurgical & Materials Science and Engineering (ijmmse)	ArghyaMajumder, Bitan Kumar Sarkar, MaharshiGhoshDastidar, Gopes Chandra Das &RajibDey
3	Nanomaterials in Relation to their Drug Delivery and Release Mechanisms: A Review Exemplified with some Herbal Drugs	World Journal of Pharmaceutical Research	Pritha Pal ,RajibDey, Satadal Das, MahuaGhoshChaudhuri
Sl. No.	Title	Journal's Name	Author
4	Effect of Naphthalene on Reduction Characteristics of Iron Ore Nuggets using Boiler Grade Coal	MGMI Transactions	RajibDey, ChanchalBiswas, MahuaGhoshChaudhuri
<u>Dr. Sathi Banerjee</u>			
1	“Solution Combustion Synthesis of Alumina Spinel and its characterization”,	Interceram, vol 67, 2018, p 35 - 41.	S. R. Ghosh, S. Mukherjee, S. Banerjee,
Sl. No.	Title	Journal's Name	Author
<u>Prof. S.Paul</u>			
1.	Prediction and Computation of Corrosion	Journal of Material	Subir Paul, RajdeepMondal

	Rates of A36 Mild Steel in Oilfield Seawater Mild Steel by A Homeopathic Medicine	Engineering and Performance, Springer, ASM, vol 27, 2018,ISSN: 1059-9495 (Print) DOI : 10.1007/s11665-018-3385-8	
2.	Electrochemical Development of Ni-Cu Electrodes by Direct and Pulse Current Coating in Ethanol Electro-oxidation for DEFC	<i>PortugaliaeElectrochimicaActa</i> 2018, 36(5), 293-307	Sujit Kumar Guchhait Subir Paul
3.	Synthesis and Characterization Electro Catalytic Al-Ni and Nano Graphite Electrodes for Rechargeable Al ion Battery	Current Catalysis 2018,7 Volume:7, Year : 2018 Pages:149-155 http://www.eurekaselect.com/161825/article	Subir Paul Tanuj Kumar
4.	Modeling And Computation By Artificial Neural Network Of Fracture Toughness Of Low Alloy Steel To Study The Effect Of Alloy Composition	International Journal of Modeling, Simulation, and Scientific Computing 2018 Vol. 9, No. 6 (2018) 1850051 (14 pages) c© World Scientific Publishing Company DOI:10.1142/S1793962318500514 https://doi.org/10.1142/S1793962318500514	Subir Paul ShibasishBhattacharjee
5.	Computation of Corrosion Rates of Steel with Variation of Cl-, SO4 2-, CO3 2-, HCO3 -, O2, CO2, pH and Temperature, Developed by Modeling with Artificial Neural	Innovations in Corrosion and Materials Science Volume 7 , Issue 2 , pp135-193, 2017 DOI:10.2174/2352094907666171016124420	Subir Paul, RajdeepMondal.
6.	Understanding the Material Science of Battery We Use Everyday,	Research and Review in Electrochem. 2017;8(1):105.	Subir Paul
7.	Electrochemical Oxidation of Biofuels Derived from Mango Wood Floor on Electrolytically Developed MnO2 Electrode To Produce Renewable Electrical Energy in Fuel Cell	Current Alternative Energy,Bentham Science Publishers 2017 vol 1, issue 1 pp 33-43 DOI : 10.2174/2405463102666170131115816	Subir Paul , Upendra Kumar
Prof. P.C.Chakraborti			
1.	Uniaxial ratcheting behaviour of dual-phase steel sheet	Materials Engineering and Performance, 27(7), 2018. Pages 3688-3698.	P.S. De, J.K.Mahato, A.Kundu, P.C. Chakraborti and M.Shome
2.	Ductile tearing resistance indexing of automotive grade DP590 steel sheets: EWF testing with DENT specimens	Materials Engineering and Performance, 27(4), 2018, Pages 2018-2023.	S. Sahoo, N. Padmapriya, P.S.De, P.C.Chakraborti and S.K.Ray
3.	Sintering and tribomechanical properties of gel-combustion-derived nano-alumina and its composites with carbon nanotubes	Journal of Materials Science, 53(12), 2018, Pages 8989-9001.	R. Halder, S. Sarkar, S. Bandyopadhyayand P.C.Chakraborti
Sl. No.	Title	Journal's Name	Author
4.	Asymmetric cyclic behavior of fine and coarse grained pure copper and aluminium	Lecture Notes in Mechanical Engineering, (9789811060014), 2018,	J. K. Mahato, P.S. De, A.Kundu and P.C.Chakraborti

		Pages 397- 411.	
5.	True stress-control ratcheting behavior cold-rolled interstitial free steel sheet:	Mechanics of Materials, 115, 2017, Pages 34 – 46.	P.De, J.K.Mahato, A.Kundu, P.C.Chakraborti and M.Shome
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Prof. Akshay Kumar Pramanick:-			
1	Response of Austempering heat treatment in weld metal, HAZ and base metal of ADI weldments	International Welding Congress 2017, on 7 th to 9 th Dec 2017	TapanSarkar, Tapan Kumar Pal, Akshay Kumar Pramanick,
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1.	Physico-chemical Processing of Low Grade Chromite Ore for Beneficiation and Agglomeration of Fines for Recovery of Metal Values: Completed.	Ministry of Mines
2.	Design of Nano-Carriers for Sustained Release of Conventional Analgesic Drugs : Ongoing (2018 – till date)	WBDST
3.	Synthesis of Drug (Herbal Values) Entrapped Nano Material to Treat Cancer Disease and Other Disease Causing Organisms : Ongoing (2018 – till date)	WBDST

6. Major Achievements:

Prof. Pravash Chandra Chakraborti:-

Invited for participation in the National Mission Programme on Advanced Ultra Supercritical Power Plant project under the aegis BHEL-NTPC- IGCAR consortium.

Prof. RajibDey:-

Awarded by	Award name
The Mining, Geological and Metallurgical Institute of India	Indranil Award for Metallurgy for his Outstanding Contribution in Ferrous Metallurgy

Any Other Matters:-

Pharmaceutical Technology

Intercom number: 2457 and 2274

Head of the Department:

Prof. Pulok K. Mukherjee, PhD, FRSC, FNASc

E mail: hodpharmacy@jadavpuruniversity.in

pulok.mukherjee@jadavpuruniversity.in

1. A. Course offered:

Name of the course	Duration of the course	Current intake
B. Pharm.	4 years	77
M. Pharm.	2 years	25
M. Pharm. (Clinical Pharmacy and Pharmacy Practice)	2 years	08
Ph. D.	--	As per UGC guidelines

1. B. Number of Faculty Members: 14

2. A. Area of Research Activities: (Broad Areas)

The Department of Pharmaceutical Technology, Jadavpur University is one of the premier department with excellent teaching quality and research facilities with the esteemed research laboratories equipped with modern instruments. The significant numbers of research grants from various governments and other professional agencies give financial support to reveal excellent research output. The department publishes innovative research publications in high impact journals. Six major disciplines of the department, such as Pharmaceutics, Pharmacology, Pharmacognosy, Pharmaceutical Chemistry, Pharmaceutical Biotechnology, and Industrial Pharmacy are working in the following major areas of research viz. drug discovery from natural and synthetic sources, quality, efficacy and safety evaluation of herbal medicine, formulation development, identification of molecular mechanism of diseases, predictive pharmacology and toxicology, and standardization of drug/formulations.

2. B. Major Research Project :

- i. Principle investigator: Dr. Saikat Dewanjee, Name of the Project: Strategies for dereplication of novel anti-diabetic leads from *Myrica esculanta* (Myricaceae): A Sikkim himalayan medicinal plant. Council of Scientific and Industrial Research (CSIR), New Delhi.
- ii. Principle investigator: Prof. Amalesh Samanta, Name of the Project: “Natural Products and Drug Delivery” under the Scheme “University with Potential for Excellence”. (University Group Project) UPE - Phase – II. University Grants Commission (UGC), New Delhi.
- iii. Principle investigator: Prof. Amalesh Samanta, Name of the Project: “Fabrication and Characterization of Natural Polysaccharide Based Bioerodible Localized Spongy Scaffold: A Potential Role in Augmenting Wound Healing”, Department of Higher Education, Science & Technology and Biotechnology, (DHEST&BT) Govt. of West Bengal.
- iv. Principle investigator: Prof. Kunal Roy, Name of the Project: In silico modeling of property/toxicity/activity of nanomaterials using chemometric tools. Council of Scientific and Industrial Research (CSIR), New Delhi.
- v. Principle investigator: Prof. Kunal Roy, Name of the Project: Application of QSARs for the design of PET and SPECT imaging agents. DAE-BRNS, India.
- vi. Principal investigator: Prof. Pulok K. Mukherjee, Name of the project: Investigation of traditional medicines used as anti-infectives and against neurodegenerative Disease, Department of Science and Technology (DST), New Delhi,

3. A. Invited Lectures Delivered/Sessions Chaired:

- i. Prof. Subhash C. Mandal, Invited lecture, Bankura Christian College, Bankura West Bengal, 2018.
- ii. Prof. Subhash C. Mandal, Invited lecture, Sagar Mahavidyalaya Gangasagar, Harinbari South 24 Parganas, 2018.
- iii. Prof. Subhash C. Mandal, Session chaired, National Symposium & Ethnopharmacology Conclave, 4th Convention: SFE-INDIA, 2017, School of Natural Product Studies, Jadavpur University, 2017.

- iv. Prof. Amallesh Samanta delivered keynote Speech in “Bioactive Polysaccharides” at the Claire College, Cambridge, UK, 2017.
- v. Prof. Tapan Kumar Maity, Invited lecture, North Bengal University, West Bengal, 2018.
- vi. Prof. Tapan Kumar Maity, Invited lecture, Gauhati University, Assam, 2018.
- vii. Prof. Tapan Kumar Maity, Invited lecture, Tripura University, Tripura, 2018.
- viii. Prof. Tapan Kumar Maity, Invited lecture, BCDA College of Pharmacy & Technology, Barasat, Kolkata, 2018.
- ix. Prof. Tapan Kumar Maity, Expert, Selection committee, BCDA College of Pharmacy & Technology, Barasat, Kolkata, 2018
- x. Prof. Tapan Kumar Maity, Invited lecture, Gauhati University, Assam, 2017.
- xi. Prof. Kunal Roy, Invited lecture, and Chaired a session, Conferentia Chemometrica, Gyöngyös-Farkasmály, Hungary, 2017.
- xii. Prof. Kunal Roy, Invited lecture, and Chaired a session, CMTPI 2017, Goa, India, 2017.
- xiii. Prof. Pulok K. Mukherjee, Invited lecture, University of Bonn, Germany, March, 2018.
- xiv. Prof. Pulok K. Mukherjee, Invited lecture, 18th International Congress of ISE & 5th International Congress of SFE-INDIA , (ISE SFEC 2018) on Ethnopharmacology and Drug Development: Innovation meets Tradition Dhaka, Bangladesh, January, 2018
- xv. Prof. Pulok K. Mukherjee, Invited lecture, National conference on Current prospective in herbal drug regulations: Global scenario, Sri Ramachandra University, Porur, Chennai, June, 2017.

3. B. Seminar/Workshop/Conference/Symposium Attended:

- i. Prof. Subhash C. Mandal, Scientific and Indigenous Lecture Bio-cultural Knowledge in Understanding Climate Change in Biodiversity Hotspots to Develop Strategies for Scio-Ecological Development: Data Availability, Requirement and Gaps. Assam University, Dept of Economics, 2017.
- ii. Prof. Pulok K. Mukherjee, Synergy Forum on Exploring Synergy in Ayurveda and Traditional Indian Systems of Medicine, University of Bonn, Germany, March, 2018

- iii. Prof. Pulok K. Mukherjee, 18th International Congress of ISE & 5th International Congress of SFE-INDIA , (ISE SFEC 2018) on Ethnopharmacology and Drug Development: Innovation meets Tradition Dhaka, Bangladesh, January, 2018
- iv. Prof. Pulok K. Mukherjee, National conference on Current prospective in herbal drug regulations: Global scenario, Sri Ramachandra University, Porur, Chennai, June, 2017
- v. Prof. Pulok K. Mukherjee, Drugs from our Ancestors, Drugs from nature: conservation of Lok Swasthya Parampara National Conference of Community Health Practitioners on “Conservation of Lok Swasthya Parampara”, Department of Pharmaceutical Sciences, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, July, 2017
- vi. Prof. Pulok K. Mukherjee, Publishing Research in Impact Journals - Big research and better writing, UGC-HRDC, Jadavpur University, Salt Lake Campus, Kolkata, August 24, 2017.
- vii. Prof. Pulok K. Mukherjee, 2nd National Seminar on Medicine from our Ancestors: Validation of Traditional medicine and Ethnopharmacology – Global perspective, Sri Satya Sai University of Technology and Medical Sciences, Bhopal, M.P, October, 2017.
- viii. Prof. Pulok K. Mukherjee, Ethnopharmacology and Validation of Medicinal Plants: Farm to Pharma, Current Trends in Herbal Drug Discovery & Ethnopharmacology, VES College of Pharmacy, Chembur, Mumbai, Feb, 2018.

3.C. Seminar/Workshop/Conference/Symposium Organized:

- i. Department of Pharmaceutical Technology, Jadavpur University in association with AMRI Hospitals, Dhakuria, Kolkata organized a national Seminar on “Clinical Research : Present Scenario in Pharmacovigilance and Clinical Trials” at the Jadavpur University, Kolkata-700032 on 17th February 2018, Prof. Amalesh Samanta was the organizing secretary.

3.D. Orientation Courses/ Refresher Courses Attended: NA

(Name of the Teachers, Title of the Course, Duration, Place)

3.E. Orientation Courses/Refresher Courses Organized: NA

(Name of the Teachers, Title of the Course, if any, Duration ,Place)

4. A. Books/Monographs etc. (Published):

- i. Pulok K. Mukherjee, Evidence based validation of Indian traditional medicine 2017, World scientific publishing Co. Pte. Ltd. Singapore, 2017, pp. 137-160. ISBN: 978-981-3200-33-3.
- ii. Pulok K. Mukherjee, Factors to Consider in Development of Nutraceutical and Dietary Supplements, 2017, Academic Press, Tokyo, Japan, 2017. Pp. 653–661: ISBN: 978-0-12-802104-0.
- iii. Subhash C. Mandal, Natural Products and Drug Discovery (An Integrated Approach) Edited by Subhash C Mandal, Vivekananda Mandal and Tetsuya Konishi (Japan), Elsevier , 2018 , ISBN 978-0-08-102081-4.
- iv. Saikat Dewanjee, Optimization of extraction using mathematical models and computation. (Anup K. Das & Saikat Deewanjee) In: Computational Phytochemistry. S. Sarkar, L. Nahar (Eds). Elsevier, Netherlands, 2018, Chapter 24, pp. 75-106.
- v. Kunal Roy, Advances in QSAR Modeling. Applications in Pharmaceutical, Chemical, Food, Agricultural and Environmental Sciences. Edited by Prof. Kunal Roy, Springer, 2017.
- vi. Kunal Roy, Computational Modeling of Drugs Against Alzheimer's Disease, Edited by Prof. Kunal Roy, Springer, 2017.

4. B. Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

1. Prof. Pulok K. Mukherjee, Tyrosinase inhibitory mechanism of betulinic acid from *Dillenia indica*, Food Chemistry, 2017, 232, 689-696 [Impact factor: 4.946]
2. Prof. Pulok K. Mukherjee, Nanoemulsion as a novel carrier system for improvement of betulinic acid oral bioavailability and hepatoprotective activity, Journal of Molecular Liquids, 2017, 237, 361-371 [Impact factor: 3.929]
3. Prof. Pulok K. Mukherjee, Paradigm shift in natural product research: traditional medicine inspired approaches, Phytochemistry Reviews, 2017, DOI 10.1007/s11101-016-9489-6 [Impact factor: 3.875]
4. Prof. Pulok K. Mukherjee, Development of Ayurveda – Tradition to trend, Journal of Ethnopharmacology, 2017, 197, 10-24. [Impact factor: 2.998]
5. Prof. Pulok K. Mukherjee, Safety assessment of selected medicinal food plants used in Ayurveda through CYP450 enzyme inhibition study, Journal of Science and Food Agricultural. 2017, 97, 333-340 [Impact factor: 2.463]

6. Prof. Pulok K. Mukherjee, Validation of medicinal herbs for anti-tyrosinase potential Journal of Herbal Medicine, doi.org/10.1016/j.hermed.2018.09.002 [Impact factor: 2.0]
7. Prof. Subhash C. Mandal, Histological evaluation of *Calotropis gigantean* (L.) R. Br. Leaf, Root, Stem, Journal of Medicinal Plants Studies, 2018, 6(4), 110-116.
8. Prof. Subhash C. Mandal, Azadiradione Restores Protein Quality Control and Ameliorates the Disease Pathogenesis in a Mouse Model of Huntington s Disease, Molecular Neurobiology, 2018, 54(155) 1-10. [Impact factor: 5.076]
9. Prof. Subhash C. Mandal, Antidiabetic activity of *Senna surattensis* in alloxan-induced diabetic rats, Asian Journal of Pharmaceutical and Clinical Research, 2018, 11(4), 160-163
10. Prof. Subhash C. Mandal, Attenuation of nociceptive pain and inflammatory disorders by total steroid and terpenoid fraction of *Euphorbia tirucalli* Linn. root in experimental in vitro and in vivo model, Inflammopharmacology, 2018, 26(1), 235-250. [Impact factor: 3.304]
11. Prof. Subhash C. Mandal, Preparation and characterization of PLGA loaded nanoparticles obtained from *D. Melanoxylon* Roxb. leaves for their antiproliferative and antidiabetic activity, International Journal of Green Pharmacy, 2017, 11(3)S, 438-447.
12. Prof. Subhash C. Mandal, Patterns and Trends of Cancer and its Treatments in Hospitals of Dhaka City in Bangladesh, The Pharma Review, 2017, XV(85) 96-100.
13. Prof. Subhash C. Mandal, Formulation Challenges in the Development of Dosage Form of Phytodrugs, The Pharma Review, 2017, XV(86) 91-96.
14. Prof. Subhash C. Mandal, Assessment of modified fenugreek on blood sugar lowering action in rats, World journal of Pharmaceutical and Life Sciences, 2017, 3(3), 188-193.
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5. Collaborative Programmes:

- i. Prof. Pulok K Mukherjee, University of Bonn, Germany Regina- Pacis- Weg 3, 53113, Bonn, Germany, for its AG Synergy Research within the Medicinal Clinic III of the Faculty of Medicine, 2018
- ii. Prof. Pulok K Mukherjee, University of the Free State, Bloemfontein, Republic of South Africa at the Department of Pharmacology, of Health Science for joint research and exchange programs between both the institutes in the field of natural product research.
- iii. Prof. Kunal Roy with Prof. Jerzy Leszczynski, Interdisciplinary Center for Nanotoxicity, Department of Chemistry, Physics and Atmospheric Sciences, Jackson State University, Jackson, Mississippi 39217, United States.

- iv. Prof. Kunal Roy with Dr. Emilio Benfenati, Laboratory of Environmental Chemistry and Toxicology IRCCS - Istituto di Ricerche Farmacologiche "Mario Negri" Via La Masa 19, 20156 Milano, Italy.

6. Major Achievements:

- i. Prof. Pulok K Mukherjee received NASI - Reliance Industries Platinum Jubilee Award (2018) in Biological Sciences
- ii. Prof. Pulok K Mukherjee , Associate Editor, Journal of Ethnopharmacology, International journal on botanical research, published by Elsevier Science, the Netherlands .
- iii. Prof. Pulok K Mukherjee , Editorial board member, Phytomedicine an International Journal of Phytotherapy and Phytopharmacology; published by Elsevier Science, the Netherlands.
- iv. Prof. Pulok K Mukherjee , Editorial board member, Phytochemical Analysis, an International journal on development, improvement, validation of analytical methodology in plant sciences; published by John Wiley & Sons Ltd., U.K.
- v. Prof. Pulok K Mukherjee , Editorial board member, Journal of Integrative Medicine (JIM), by Elsevier Science, the Netherlands.
- vi. Prof. Subhash C. Mandal received Prof. P. C. Datta Memorial Award, awarded by Botanical Society of Bengal, 2017
- vii. Dr. Saikat Dewanjee has been appointed as the academic Editor of Plos One.
- viii. Dr. Saikat Dewanjee has been appointed as the associate Editor of BMC Complementary and Alternative Medicine.
- ix. Prof. Kunal Roy has been appointed as the Co-Editor-in-Chief, Molecular Diversity, Springer Nature.

7. Research Scholars Awarded:

- i. Prof. Subhash C. Mandal, Scholar name: Prabir Sinhamahapatra, Title: Development of herbal antidiabetic formulation , 2018.

- ii. Prof. Subhash C. Mandal, Scholar name: Vinod kumar N., Title: Screening of Indian Medicinal Plants Extracts with cell based reporter system for Modulation of heart shock response in human cells, 2018.
- iii. Dr. Saikat Dewanjee, Scholar name: Tarun Kumar Dua, Title: Exploration of Phytotherapeutic Potential of Some Common Edible Vegetables in West Bengal, 2018.
- iv. Dr. Saikat Dewanjee, Scholar name: Ritu Khanra, Title: Exploration and exploitation of *Abroma augusta* Linn.: Employing modern pharmacognostic approach, 2018.
- v. Prof. Tapan Kumar Maity, Scholar name: S. Ramasamy, Title: Synthesis, Characterization and Anticancer Evaluation of 1,3,4-Thiadiazole Derivatives, 2018.
- vi. Prof. Kunal Roy, Scholar Name: Pravin Ambure, Title: molecular modeling and QSAR studies of potential anti-Alzheimer's agents, 2017.
- vii. Prof. Pulok K Mukherjee, Scholar Name: Mrinmoy Nag, "Chromatographic Evaluation and Antimicrobial Investigation of Some Medicinal Plants Extract", 2017.
- viii. Prof. Pulok K Mukherjee, Scholar Name: Shiv Bahadur, "Metabolism Mediated Interaction Study of Some Medicinal Plants through CYP450 Enzymes", 2018

To,
Jadavpur University Press
Kolkata – 700032
abhijit0359@gmail.com

Subject: Annual report 2017-2018 of the Dept of Pharmaceutical Technology, Jadavpur University, Kolkata

Dear Sir

Enclosed please find the annual report of the Dept of Pharmaceutical Technology, in prescribed format for your information and necessary action.

Thanking you,

Prof. Pulok K. Mukherjee

Department of Power Engineering

1. A. Courses Offered :

(Name of the Course, Duration of the Course, No of Students Enrolled)

Bachelor of Power Engineering: 4years, 52 students in each batch

Master of Power Engineering: 4 semesters, 18 students in each batch

PhD(Engg.): Presently 18 registered research scholars

1. B. Number of Faculty Members : 12 (Professor – 8; Assistant Professor – 4)

2. A. Area of Research Activities :

(Broad Areas)

Power Economics and Deregulation, Nonconventional Generation and Environment, Novel Materials, Applied superconductivity, Wireless sensor networks, Combustion modeling and diagnostics, energy, atomization, computational and experimental fluid dynamics and heat transfer, microfluidics, biological fluid flow, heat transfer using nanofluid, experimental aerodynamics, hydro power, wind power, power system optimization, soft computing techniques, application of nanofluids in power engineering, real-time & embedded systems.

2. B. Major Research Project :

(Departmental/Individual, Name of the Project/Funding Agency)

Departmental / Individual along with the names of Co-ordinator(s)/Investigator(s)	Name of the Project	Funding Agency
Ranjan Ganguly : P.I. Amitava Datta : C.I.	Study of Condensation in presence of Non-Condensable Gases: Effects of Surface Wettability and Flow Parameters	DAE(BRNS), Govt. of India
Amitava Datta : P.I. Ranjan Ganguly : C.I.	Development of High Efficiency Domestic LPG Stove through Numerical Simulation	LPG Equipment Research Corporation, Bangalore
Amitava Datta: C.I. and Team Member (Multi-Institutional)	Development of efficient biomass conversion routes for biofuel production and utilisation	EU, DST and DBT (India) (INNO-INDIGO Project)
Amitava Datta: Nodal Person, Jadavpur University (Multi-Institutional)	Enhancing Quality Assurance Management and Benchmarking Strategies in Indian Universities	EU, ERASMUS PLUS
Niraj Sinha, Prabhat Munshi (IIT Kanpur); Amitava Gupta (Jadavpur University, Kolkata)	Indigenously Developed Spectroscopic Radiation Portal Monitors for National Security	MHRD & DRDO
Amitava Gupta: PI	Development of discrete optimal controller for a load following pressurized water reactor (PWR) module	DAE(BRNS), Govt. of India

3. A. Invited Lectures Delivered/Sessions Chaired:

(Name of the Teacher, Type of Participants, Name of the Seminar / Conference etc. Place, Duration)

Name of the Teacher	Type of Participation (Invited Lecture/Session chaired/Panel expert/Keynote address)	Name of the Seminar/Conference	Place	Duration
Amitava Gupta	Invited Lecture	InvasIC Seminar, http://invasic.informatik.uni-erlangen.de/en/activities.php	TU-Muenchen, Germany	October 12, 2017
Amitava Gupta	Invited Lecture	Short Course on Nuclear Power Engineering, BUET,	Bangladesh University of Engg. and Technology (BUET)	22-26 Nov., 2017
Amitava Gupta	Invited Lecture	European Union's Erasmus + Workshop titled <i>Focusing on funding opportunities for India-Europe mobility and cooperation</i>	Kolkata	11 th May, 2017
Amitava Gupta	Invited Lecture	Webinar Series https://www.daad.org/en/2017/06/02/research-in-germany-webinar-series/Funding your research stay		12 th June, 2017
Niladri Chakraborty	Invited Talk and Panelist	National Seminar in "Survival of the Greenest- A Transition of Indian Power Sector" organized by West Bengal Power Development Corporation Limited	Swabhumi (Rangmanch), Kolkata -54.	5th Nov., 2017
Niladri Chakraborty	Invited Talk	National Conference on Non Conventional Energy: Harvesting Technology and its Challenges, 2017 organized by Assam Engineering College, India	Assam Engineering College, India	18th Nov., 2017,
Niladri Chakraborty	Invited Talk and Panelist	National Energy Conclave on "Energy Conservation and Demand Side Management", organized by Indo-American Chamber of Commerce	Taj Bengal, Kolkata.	2nd February, 2018,
Niladri Chakraborty	Invited Talk	Seminar on "Achieving Business Sustainability with Energy Efficiency and Reliability", organized by Haldia Energy Limited and Asia Institute of Power Management,	Banquet Hall, Satish Samanta Trade Centre, Haldia.	15th February, 2018
Amitava Datta	Invited lecture and Session Chair	International Workshop on Sustainable Energy, Power and Propulsion, 2018	NIT, Kurukshetra	18th-21st March, 2018
Amitava Datta	Invited lecture	Prof. P.K.Nag Memorial Lecture	Aliah University, Kolkata	21st Nov., 2017

Amitava Datta	Invited Lecture	Workshop on Energy Production and Management	NIT, Agartala,	19 – 23 March, 2018
Amitava Datta	Invited Lecture	6th International Conference on Advances in Energy Research	IIT, Bombay,	12-14 December, 2017
Amitava Datta	Session Chaired	1 st International Conference on Mechanical Engineering	Jadavpur University	4 th – 6 th January, 2018
Ranjan Ganguly	Invited participation	3rd National Frontiers of Engineering Symposium (NatFOE11)	IIT Bombay	June 30 – July 1, 2017
Ranjan Ganguly	Invited Lecture on “Versatile use of magnetic particles in microfluidics”	QIP/CEP-Short Term Course on "Microfluidics based healthcare diagnostics and interfacial phenomena"	IIT Chennai	November 6-11, 2017
Ranjan Ganguly	Invited Lecture on “Surface Microfluidics”	Short term course on “Recent Advances in Microfluidics”	NIT Durgapur	December 6, 2017
Ranjan Ganguly	Invited Lecture on “Capturing water from thin air: each drop counts”	Humboldt Kolleg on “Energy Sustainability: A Roadmap for the Future”	Humboldt Club of Kolkata	Feb 2-4, 2018
Ranjan Ganguly	Invited Lecture on “Magnetic particles-based microfluidics”	Short term course on “Smart Materials and Application in Engineering”	NIT Durgapur	February 14, 2018
Ranjan Ganguly	Chaired the Session 1F	1st International Conference on Mechanical Engineering (INCOM 2018)	Jadavpur University, Kolkata	January 4-6, 2018

3. B. Seminar/Workshop/Conference/Symposium Attended/paper presented:

(Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)

Name of the Teacher	Title of the Paper Presented	Name of the Seminar	Place	Duration
Niladri Chakraborty	Wireless Sensor Network: A Solution To Non-Conventional Energy Based Applications	National Conference on Non Conventional Energy: Harvesting Technology and its Challenges, 2017	Assam Engineering College, Assam, India	17-18 November, 2017
Niladri Chakraborty	Multiple DG Allocation in Radial Distribution System using	International Conference on	VIT University,	21-22 April, 2017

	Opposition Based Chaotic Differential Evolution Technique	Innovations in Power and Advanced Computing Technologies (i-PACT) 2017	Vellore, India	
Niladri Chakraborty	A New Optimization Technique for Optimal Reactive Power Scheduling Using Jaya Algorithm	International Conference on Innovations in Power and Advanced Computing Technologies (i-PACT) 2017	VIT University, Vellore, India	21-22 April, 2017
Amitava Datta	Effect of Biomass Feedstock on Energy Transfer in Bio-Hydrogen Generation through Gasification and Pressure Swing Adsorption	1st International Conference on Mechanical Engineering	Jadavpur University, Kolkata	4-6 January, 2018
Amitava Datta	The Effects of Blending Castor Oil Methyl Ester with Diesel on Combustion, Performance and Emission Characteristics of a Compression Ignition Engine	1st International Conference on Mechanical Engineering	Jadavpur University, Kolkata	4-6 January, 2018
Amitava Datta	Existence of Nano-Organic Carbon Particles below the Size Range of 10 nm in the Indoor Air Environment	19th International Conference on Thermal Power and Thermal Energy	Singapore	4-5 July, 2017
Ranjan Ganguly	Surface Science for Affordable Healthcare	Humboldt Colloquium "Germany and India – Partners in Education and Research"	Bangalore, India	23–25 November, 2017
Ranjan Ganguly	Cooling Tower Fog Harvester	International Engineering Sourcing Show (IESS-VII)	Chennai, India	8-10 March, 2018
Amitava Datta, Ranjan Ganguly	Effect of surface wettability on condensation heat transfer in presence of non-condensable gas, Paper no. IHMTC2017-13-1264	24th National and 2nd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTC)	Hyderabad, India	27-30 December, 2017
Apurba K. Santra, Ranjan Ganguly	Measurement of surface tension and contact angle of different nanofluids: an experimental study, Paper no. IHMTC2017-19-1406	24th National and 2nd International ISHMT-ASTFE Heat and Mass Transfer Conference	Hyderabad, India	27-30 December, 2017

(IHMTC)				
Ranjan Ganguly	Universal scales of droplet spreading on wettability-patterned wedge tracks, Paper ID: 62.M11.00006	70th Annual Meeting of the APS Division of Fluid Dynamics	Denver, Colorado, USA	19–21 November, 2017
Ranjan Ganguly	Evolution of nanoliter size fluid droplet on micropatterned surface Paper No. INCOM18-238	1st International Conference on Mechanical Engineering (INCOM 2018)	Jadavpur University, Kolkata	4-6 January, 2018
Amitava Datta, Ranjan Ganguly	Imaging and analysis of condensation in presence of noncondensable gases – effect of surface wettability, Paper No. INCOM18-234	1st International Conference on Mechanical Engineering (INCOM 2018)	Jadavpur University, Kolkata	4-6 January, 2018
Amitava Datta, Ranjan Ganguly	Theoretical modelling of transport of magnetic microspheres in an aqueous two phase system (ATPS) in a microchannel, Paper No. INCOM18-191	1st International Conference on Mechanical Engineering (INCOM 2018)	Jadavpur University, Kolkata	4-6 January, 2018
Mousumi Basu	Optimized hydel-thermic operative outlining using grey-wolf optimizing technique	<i>IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPSCI)</i>	Chennai, India	21-22 September, 2017
Mousumi Basu	Optimized power operational planning through DISGEN in a railway rack upkeeping depot	<i>IEEE International Transportation Electrification Conference India (ITECINDIA)</i>	Pune, India	13-15 December, 2017
Mousumi Basu	Implementation of social spider optimization for optimized hydel-thermic operational delineation	<i>Asia-Pacific Power and Energy Engineering Conference (APPEEC)</i>	Bangalore, India	8-10 November, 2017
Mousumi Basu	Optimized hydel-thermic operative planning using IRECGA	<i>Third International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN),</i>	Kolkata, India	3-5 November, 2017
Subrata Mondal	Dynamic performance of gear hobbing machine experiments and ann modeling	1st International Conference on Mechanical Engineering	Jadavpur University, Kolkata	4-6 January, 2018

		(INCOM 2018)		
Subrata Mondal	Medium scale multi-constraint economic load dispatch using hybrid metaheuristics	IEEE international conference on research in computational intelligence and communication networks(ICRCICN)	Kolkata, India	3-5 Nov, 2017

4. A. Books/Monographs etc. Published :

(Name of the Teacher, Name of the Book, Name of the Publisher)

Name of the Teacher	Name of the Book / Book Chapter	Name of the Publisher with ISBN No. if any
Amitava Datta	Combustion Fundamentals & Application	Narosa Publishing House, New Delhi. ISBN 978-81-8487-591-1
Amitava Datta (editor)	Advances in Internal Combustion Engine Research	Springer. ISBN 978-981-10-7575-9
Atmadeep Bhattacharya and Amitava Datta	Syngas as SI Engine Fuel: Combustion Perspective, pp. 381-400 in <i>Combustion For Power Generation and Transportation</i> , (eds. A.K.Agarwal et al.)	Springer, ISBN 978-981010-3784-9, 2017
Prakash Ghose, Amitava Datta, Ranjan Ganguly, Achintya Mukhopadhyay, Swarnendu Sen	Modelling of Soot Formation in a Kerosene Spray Flame, Ch. 12, pp. 363-394 in <i>Modeling and Simulation of Turbulent Combustion</i> (eds. S. De et al.)	Springer 978-981-10-7409-7, 2018

4. B. Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

(Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume)

1. Syamasree Biswas (Raha), Kamal Krishna Mandal, Niladri Chakraborty, Hybrid SMES based Reactive Power Dispatch by Cuckoo Search Algorithm, *IEEE Transactions on Industry Applications*, 2018, Article in Press.
2. Bhimsen Tudu, Kamal Krishna Mandal, Niladri Chakraborty, Optimal design and development of PV-wind-battery based nano grid system: A Field on Lab Demonstration (FOLD), *Frontiers in Energy*, Springer, 2018.
3. K.K. Mandal and N. Chakraborty, Closure of "Differential evolution technique-based short-term economic generation scheduling of hydrothermal systems, *Electric Power Systems Research*, **147**: 313–314, 2017.

4. A. Bhattacharya, A. Datta, Effects of Nitromethane addition on the Laminar Burning Velocity and Ignition Delay of Syngas/Air Flames, *Combustion Science and Technology*, **190**(7): 1283-1301, 2018.
5. M. Das, M. Sarkar, A.Datta, A.K.Santra, Study on viscosity and surface tension properties of biodiesel-diesel blends and their effects on spray parameters for CI engines, *Fuel*, **220**: 769-779, 2018.
6. M. Das, M. Sarkar, A.Datta, A.K.Santra, An experimental study on the combustion, performance and emission characteristics of a diesel engine fuelled with diesel-castor oil biodiesel blends, *Renewable Energy*, **119**: 174-184, 2018.
7. A. Samanta, R. Ganguly, A.Datta, N.Modak, Separation of magnetic beads in a hybrid continuous flow microfluidic device, *Journal of Magnetism and Magnetic Materials*, **427**: 300-305, 2017.
8. M. Mondal, A. Datta, Energy Transfer in Hydrogen Separation from Syngas using Pressure Swing Adsorption (PSA) Process: A Thermodynamic Model, *International Journal of Energy Research*, **41**(3): 448-458, 2017.
9. S. Das , K. Halder and A. Gupta, Performance analysis of robust stable PID controllers using dominant pole placement for SOPTD process models, *Knowledge-Based Systems*, **146**: 12-43, 2018.
10. D.K. Yadav, A. Gupta, P. Munshi, Non linear Dynamic Inversion based controller design for load following operations in Pressurized Water Reactors with bounded Xenon oscillations, *Nuclear Engineering and Design*, **328**: 341-354, 2018.
11. D. Bose, S. Banerjee, M. Kumar, P.P. Marathe, S. Mukhopadhyay and A. Gupta, An Interval Approach to Nonlinear Controller Design for Load-Following Operation of a Small Modular Pressurized Water Reactor, *IEEE Transactions on Nuclear Science*, **64**(9): 2474-2488, 2017.
12. T.P. Koukoravas, A. Ghosh, P.S. Mahapatra, R. Ganguly, C.M. Megaridis, Wettability-confined liquid-film convective cooling: Parameter study. *International Journal of Heat and Mass Transfer*, **126**: 667-676, 2018.
13. S. Chatterjee, P.S. Mahapatra, A. Ibrahim, R. Ganguly, L. Yu, R. Dodge, C.M. Megaridis, Precise liquid transport on and through thin porous materials, *Langmuir*, **34**: 2865-2875, 2018.
14. U. Sen, S. Chatterjee, R. Ganguly, R. Dodge, L. Yu, C.M. Megaridis, Scaling laws in directional spreading of droplets on wettability-confined diverging tracks, *Langmuir*, **34**: 1899-1907, 2018.
15. U. Sen, S. Chatterjee, P.S. Mahapatra, R. Ganguly, R. Dodge, L. Yu, C.M. Megaridis, Surface-wettability patterning for distributing high-momentum water jets on porous polymeric substrates, *ACS Applied Materials & Interfaces*, **10**: 5038–5049, 2018.
16. P.K. Das, A.K. Mallick, R. Ganguly, A.K. Santra, Stability and thermophysical measurements of TiO₂ (anatase) nanofluids with different surfactants, *Journal of Molecular Liquids*, **254**: 98-107, 2018.
17. T. Gupta, R. Ghosh, R. Ganguly, Acoustophoretic separation of infected erythrocytes from blood plasma in a microfluidic platform using biofunctionalized, matched-impedance layers, *International Journal for Numerical Methods in Biomedical Engineering*, **34**, e2943, 2018, doi: 10.1002/cnm.2943, 2018.
18. Kallol Roy, Kamal Krishna Mandal, Atish Chandra Mandal, Sankar Narayan patra, Analysis of energy management in micro grid – A hybrid BFOA and ANN approach, *Renewable and Sustainable Energy Reviews*, **82**: 4296-4308, 2018.
19. Saborni Das, Abhik Hazra, Mousumi Basu, Metaheuristic optimization based fault diagnosis strategy for solar photovoltaic systems under non-uniform irradiance, *Renewable Energy*, **118**: 452-467, 2018.

20. Abhik Hazra, Saborni Das, Mousumi Basu, Heat Transfer Search Algorithm for Non-convex Economic Dispatch Problems, *Journal of The Institution of Engineers (India): Series B*, **99**(3): 273-280, 2018.
21. Abhik Hazra, Saborni Das, Mousumi Basu, An efficient fault diagnosis method for PV systems following string current, *Journal of Cleaner Production*, **154**: 220-232, 2017.

5. Collaborative Programmes:

- Prof. Niladri Chakraborty is developing a collaborative programme with National Thermal Power Corporation Limited (NTPC)
- Prof. Niladri Chakraborty has been in advanced deliberations for a collaborative programme with Coal India Limited (CIL)
- Prof. Niladri Chakraborty is on the start of development of a collaborative programme with Calcutta Electric Supply Corporation (CESC)
- Prof. Niladri Chakraborty is linked with a collaborative program with National Physical Laboratory (NPL)
- Prof. Niladri Chakraborty is serving a joint collaborative programme with Central Institute of Mining and Fuel Research (CIMFR)
- Dr. Ranjan Ganguly collaborated with Prof. C.M.Megaridis of University of Illinois, Chicago, USA, for the study of condensation on wettability patterned surfaces

6. Major Achievements:

- Prof. Niladri Chakraborty received the Outstanding Engineer Award by IEEE Power Engineering Society, Kolkata Section, 2017
- Prof. Niladri Chakraborty received the Best Paper Award as co-author with research scholar, Arnab Ghosh, in National Conference on Non Conventional Energy: Harvesting Technology and its Challenges, Assam, India, 2017
- Prof. Niladri Chakraborty received the KALAM VISION 2020 AWARD by Abdul Kalam International Foundation, 2018.
- Prof. Niladri Chakraborty received the GREEN9 ENERGY EXCELLENCE AWARD by Green Energy Efficiency Research Council, 2018.
- Prof. Niladri Chakraborty received the ENERGY EXPERT in National Energy Conclave organized by Indo-American Chamber of Commerce, 2018
- Prof. Niladri Chakraborty provided consultancy to Reform Consulting Limited, Kolkata as Advisor on Curriculum Design through Administrative Section, Jadavpur University, 2017, 5 lakhs.
- Prof. Amitava Datta received the Shiksharatra Sammanana from the Govt. of West Bengal on 5th September, 2017.

- Prof. Amitava Datta worked as the Chairman, Core Expert Committee, West Bengal Joint Entrance Examination Board, 2017
- Prof. Amitava Datta was responsible for the preparation and submission of data for 'National Institutional Ranking Framework (NIRF) for the year 2017
- Prof. Amitava Datta acted as Member in the Joint Working Group on Combustion formed by GTRE, DRDO, Govt. of India
- Prof. Ranjan Ganguly visited Mechanical and Industrial Engineering Department of University of Illinois at Chicago from June to July, 2018, for a research collaboration under the invitation from UIC.
- Prof. Ranjan Ganguly is acting as Adjunct Associate Professor at the Mechanical and Industrial Engineering Department of University of Illinois at Chicago.
- Research paper by Prof. Amitava Datta and Ranjan Ganguly titled "Effect of surface wettability on condensation heat transfer in presence of non-condensable gas received the PK Sarma Best Paper Award at the 24th National and 2nd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC).
- Prof. Amitava Gupta acted as the Coordinator of DAAD Falling Walls 2018, Kolkata.

Printing Engineering

(Salt Lake)

Phone : +91-33-2335-0408

Int. : 6186/6191

H.O.D.: Soumen Basak

E-mail: hodprinting@jadavpuruniversity.in

1. A. Courses Offered:

Name of the Course	Duration of the Course	No. of Students Enrolled
B. E. in Printing Engineering	4 years	33
M. Tech. in Printing Engineering & Graphic Communication	2 years`	06
Ph. D.		

B. Number of Faculty Members: 8

- 2. A. Area of Research Activities:** Printing Material Science, Image Analysis, Paper Technology, Digital Color Imaging, Color Management System, Ink Technology, Surface Coating, Digital Image Processing, Digital Halftoning, Color Science.

B. Major Research Project:

(Departmental/Individual, Name of the Project/ Funding Agency)

3. A. Invited Lectures Delivered/ Sessions Chaired:

(Name of the Teacher, Type of Participants, Name of the Seminar / Conference etc., Place, Duration)

B. Seminar/ Workshop/Conference/ Symposium Attended:

(Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)

C. Seminar/ Workshop/Conference/ Symposium Organized:

(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

D. Orientation Courses/ Refresher Courses Attended:

(Name of the Teacher, Title of the Course, Duration, Place)

E. Orientation Courses/ Refresher Courses Organized:

(Name of the Teacher, Title of the Course, if any, Duration, Place)

4. A. Books/ Monographs etc. Published:

(Name of the Teacher, Name of the Book, Name of the Publisher)

B. Articles Published in Journals: (Including National/ International & Peer-reviewed Journals)

(Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume)

5. Collaborative Programs:

6. Major Achievements:

Annual Report of Jadavpur University

[1st April 2017 to 31st March 2018]

Section II (Academic)

(1 April, 2017- 31 March,2018)

[For Departments/Schools/Centres/Projects/Programmes]

1. A. Courses Offered :

- i) **B.Prod. E., 4 years, 49 in each year**
- ii) **M. Prod. E., 2 years, 13 in each year**
- iii) **Ph. D. (Engg.)**

1. B. Number of Faculty Members : 11

2. A. Area of Research Activities : Ergonomics, Computer Integrated Manufacturing, Industrial Engg., Robotics, Sensors, Computer Vision, Microprocessor Applications, Mechatronics, Laser Beam Machining, Engineering Graphics, Computer Graphics, Production Management, Tribology/ Reliability/ Terotechnology/ Operations Management, Operations Research, Project Management, Soft Computing, Management Development Programme, Adv. Manufacturing Technology (Non-Traditional Machining (NTM) Processes) / Machine Tool Systems/ Advanced Machining, LASER, ECDM, EDM, Concurrent Engineering, TQM, Thermal Engineering, Inspection & Quality Control, Maintenance Management & Terotechnology, Decision Making Techniques, Production Technology, Advanced Machining Processes, Engineering Graphics/Computer Graphics/ CAD-CAM Tribology/ Artificial Intelligence, Robotics, CNC M/c, Automation.

2. B. Major Research Project :

1. Prof. B. Bhattacharyya P.I. and Prof. B.N. Doloj Co-P.I. of ongoing Project title: “Development of Wire Electrochemical Machining (WECM) Setup for generation of micro features.”, funded by DST NewDelhi (Rs. 53,82,000/-)

3. A. Invited Lectures Delivered/Sessions Chaired:

1. Prof. Bijan Sarkar was invited to attend as a Guest of Honor and deliver a lecture on “Safety Performance & Improvement”, organized by Variable Energy Cyclotron Centre (VECC) , Department of Atomic Energy, Government of India ,sector -1, Block –AF, Salt Lake, Kolkata 700 064 on 5th March 2018
2. Prof. Bijan Sarkar was invited to deliver Expert Lecture in the seminar on “Fuzzy Set Theory and its Applications” organized by National Institute of Technology (NIT), Durgapur on 2nd December 2017 at Durgapur

3. Prof. Bijan Sarkar was invited to deliver EXPERT lecture to Ph.D Scholars of Institute of Management Study (IMS), E M Bypass, 93 Mukundapur Main road,Kolkata- 700 099 on 13th January 2018.
4. Prof. Bijan Sarkar was invited to deliver lecture at a motivational session at B.P. Podder Institute of Management & Technology at salt lake, Kolkata on 22nd August 2017 .
5. Prof. Bijan Sarkar was invited to act as resource person at A Two-Day workshop on Productivity Management in Manufacturing and Service Organizations for Academic and Industry Professionals (August 18-19, 2017) organized by The Institution of Engineers (India), West Bengal State Centre Under the aegis of Production Engineering Division Board, IE(India) in association with Department of Industrial and Systems Engineering Indian Institute of Technology Kharagpur, Kharagpur 721 302
6. Prof. Bijan Sarkar was invited to deliver Expert Lecture on “Research Methodology” in Ph.D Course work organized by Heritage Institute of Technology, Kolkata on October 25 & November 06 &08, 2017 .
7. Prof. Bijan Sarkar was invited to deliver Expert Lecture in the seminar on “Trends in Manufacturing Engineering (TIME)” organized by Haldia Institute of Technology ,Haldia, in collaboration with IE(India) Students Chapter on 10th November 2017 at Haldia
8. Prof. Bijan Sarkar was invited to deliver Expert Lecture on “What every student should know” organized by Greater Kolkata College of Engineering & Management (GKCEM), Baruipur (fultala) , 24 Parganas (South), PIN – 743387 on 17th October 2017 .
9. Prof. Bijan Sarkar was invited to deliver lectures on “Total Quality Management” at International management Institute (IMI) Kolkata ,2/4C Judges Court Road, Kolkata 700 027 as visiting faculty for the current semester.
10. Prof. Bijan Sarkar was invited act as Guest Speaker for technical discussion organised by Hooghly Printing Company Limited KOLKATA on February 12-13, 2018 in KOLKATA
11. Prof. Bijan Sarkar was invited to deliver an invited talk at a Seminar on “RAMQS”, organized by Asansol Engineering College, Asansol, on January 10-11, 2018.
12. Prof. Bijan Sarkar was invited to deliver lecture as GUEST SPEAKER in the seminar entitled “Advancement in Frontiers of Mechanical Engineering” organized by Camellia School of Engineering & Technology, Nadibhag, Kazipara, Barasat, Kolkata 700 124 on 24 February 2018 .
13. Prof.Bijan Sarkar was invited to conduct of End semester Evaluation of Dissertation for 4th semester (M.Tech + Dual Degree) students held at National Institute of Technology (NIT), Patna-800 005 on 29th June 2017
14. Prof.Bijan Sarkar has been nominated by the Hon’ble Chancellor in the academic council of Maulana Abul Kalam Azad University (formerly known as WBUT), Salt lake, Kolkata-700 064
15. Prof.Bijan Sarkar was invited to attend Ph.D Committee meeting (Management) of Maulana Abul Kalam Azad University (formerly known as WBUT) , Salt lake, Kolkata-700 064 on February 15-16, ,2018

16. Prof. Bijan Sarkar was awarded Certificate of Appreciation for evaluating the article titled Overview of Automotive Core Tools Applications and Benefits by The Institution of Engineers (India).
17. Prof. Bijan Sarkar was invited to act as an Expert member in the meeting for technical assessment of Callaghan Machine at ICAR- National Institute of Research on Jute & Allied Fibre Technology at 12, Regent Park ,Kolkata – 700 040 on 29 April 2017.
18. Prof. Bijan Sarkar was invited to conduct the viva-voce examination of M.Tech degree at I.I.T., Kharagpur on 3rd May 2017.
19. Prof. Bijan Sarkar was invited to act as an Expert member in the Board of Studies (BOS) meeting of Mechanical Engineering Department, Heritage Institute of Technology, Kolkata held on 19 April 2017
20. Prof. Bijan Sarkar was invited to attend the selection committee meeting of Calcutta Institute of Engineering & Management (CIEM), 24/1A, Chandi Ghosh Road, Tollygunge, Kolkata- 700 040 held on 30 November, 1st & 5th December 2017
21. Prof. Bijan Sarkar was invited to attend the 39th meeting of the board of Governors of Calcutta Institute of Engineering & Management (CIEM), 24/1A, Chandi Ghosh Road, Tollygunge, Kolkata- 700 040 held on 13 January 2018

3. B. Seminar/Workshop/Conference/Symposium Attended:

1. Dr. Debamalya Banerjee, Professor, attended & presented paper in the 15-th International Ergonomics Conference, HWWE-2017, Organized by Aligarh Muslim University, Aligarh.

3.C. Seminar/Workshop/Conference/Symposium Organized:

1. All India Workshop on “Six Sigma Fundamentals and Application” during March 16-17, 2018 organized by The Institution & Engineer (India), West Bengal State centre under the aegis of Production Engineering Division Board, IEI in association with Production Engineering Department, Jadavpur University, under the supervision of Prof. B. Sarkar

3.D. Orientation Courses/ Refresher Courses Attended:

(Name of the Teachers, Title of the Course, Duration, Place)

3.E. Orientation Courses/Refresher Courses Organized:

(Name of the Teachers, Title of the Course, if any, Duration, Place)

4. A. Books/Monographs etc. Published :

1. Ankan Mitra and Shankar Chakraborty , Parametric optimization of laser beam machining processes using shuffled frog leaping algorithm, Book chapter in “Focus on Swarm Intelligence Research and Applications” Eds: Bachir Benhala, Pedro Pereira and Amin Sallem, Nova Science Publishers, 2017, 21-44. ISBN: 978-1-53612-452-1

4. B. Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

1. Debnath S., Kundu J., Bhattacharyya B., Influence of high duty ratio and frequency in WECM employing in situ fabricated wire electrode, 2017, Journal of Micro and Nano-Manufacturing, 5, 4, 41005,
2. Das S., Mazumder P., Doloi B., Bhattacharyya B., Fabricating tool for ultrasonic machining using reverse engineering, 2017, International Journal of Computer Integrated Manufacturing, 1, 10
3. Mishra K., Dey D., Sarkar B.R., Bhattacharyya B., Experimental investigation into electrochemical milling of Ti6Al4V, 2017, Journal of Manufacturing Processes, 29, 113, 123
4. Kunar S., Bhattacharyya B., Investigation on surface structuring generated by electrochemical micromachining, 2017, Advances in Manufacturing, 5, 3, , 217, 230
5. Rathod V., Doloi B., Bhattacharyya B., Fabrication of microgrooves with varied cross-sections by electrochemical micromachining, 2017, International Journal of Advanced Manufacturing Technology, 92, 43104, , 505, 518
6. Anasane S.S., Bhattacharyya B., Experimental investigation into micromilling of microgrooves on titanium by electrochemical micromachining, 2017, Journal of Manufacturing Processes, 28, , , 285, 294
7. Nath S., Sarkar B., An Exploratory Analysis for the Selection and Implementation of Advanced Manufacturing Technology by Fuzzy Multi-criteria Decision Making Methods: A Comparative Study, 2017, Journal of The Institution of Engineers (India): Series C, 98, 4, , 493, 506
8. Nath S., Sarkar B., Performance evaluation of advanced manufacturing technologies: A De novo approach, 2017, Computers and Industrial Engineering, 110, 364, 378
9. Sen K., Ghosh S., Sarkar B., Comparison of Customer Preference for Bulk Material Handling Equipment through Fuzzy-AHP Approach, 2017, Journal of The Institution of Engineers (India): Series C, 98, 3, , 367, 377
10. Dey B., Bairagi B., Sarkar B., Sanyal S.K., Group heterogeneity in multi member decision making model with an application to warehouse location selection in a supply chain, 2017, Computers and Industrial Engineering, 105, , , 101, 122
11. Kar A., Dutta A.K., Debnath S.K., Task management of robot using cloud computing, 2017, 2016 International Conference on Computer, Electrical and Communication Engineering, ICCECE 2016, , , 8009546, ,
12. Chakraborty S., Chatterjee P., A Developed Meta-model for Selection of Cotton Fabrics Using Design of Experiments and TOPSIS Method, 2017, Journal of The Institution of Engineers (India): Series E, 98, 2, , 79, 90
13. Chatterjee P., Chakraborty S., Development of a meta-model for the determination of technological value of cotton fiber using design of experiments and the TOPSIS method, 2018, Journal of Natural Fibers, 15, 6, , 882, 895
14. Dwivedi R., Chakraborty S., Strategic decision making for a footwear industry using activity based costing and value chain models, 2017, Leather and Footwear Journal, 17, 3, , 119, 128
15. Babu J., James A., Philip J., Chakraborty S., Application of the grey-based fuzzy logic approach for materials selection, 2017, International Journal of Materials Research, 108, 9, , 702, 709
16. Khandekar A.V., Chakraborty S., Application of fuzzy axiomatic design principles for cotton fibre selection, 2018, Journal of the Textile Institute, 109, 6, , 730, 739

17. Goswami D., Chakraborty S., Multi-objective optimization of electrochemical discharge machining processes: a posteriori approach based on bird mating optimizer, 2017, *OPSEARCH*, 54, 2, , 306, 335
18. Chakraborty S., Das P.P., Kumar V., A Grey Fuzzy Logic Approach for Cotton Fibre Selection, 2017, *Journal of The Institution of Engineers (India): Series E*, 98, 1, , ,
19. Zindani D., Maity S.R., Bhowmik S., Chakraborty S., A material selection approach using the TODIM (TOMada de Decisao Interativa Multicriterio) method and its analysis, 2017, *International Journal of Materials Research*, 108, 5, , 345, 354
20. Chakraborty S., Bandhopadhyay S., Cotton fibre selection and grading - A PROMETHEE-GAIA-based approach, 2017, *International Journal of Clothing Science and Technology*, 29, 5, , 646, 660
21. Mitra A., Chakraborty S., Parametric optimization of laser beam machining processes using a shuffled frog leaping algorithm, 2017, *Focus on Swarm Intelligence Research and Applications*, , , , 21, 44
22. Chakraborty S., Boral S., A developed case-based reasoning system for machine tool selection, 2017, *Benchmarking*, 24, 5, , 1364, 1385
23. Chakraborty S., Paul D., Agarwal P.K., Evaluation of educational performance of Indian states using PROMETHEE-GIS approach, 2017, *Benchmarking*, 24, 6, , 1709, 1728
24. Chatterjee P., Mondal S., Boral S., Banerjee A., Chakraborty S., A novel hybrid method for non-traditional machining process selection using factor relationship and multi-attribute border approximation method, 2017, *Facta Universitatis, Series: Mechanical Engineering*, 15, 3, , 439, 456
25. Acherjee B., Maity D., Kuar A.S., Mitra S., Misra D., Optimization of laser transmission welding parameters using chicken swarm optimization algorithm: Chicken swarm algorithm optimization of laser transmission welding, 2017, *Handbook of Research on Manufacturing Process Modeling and Optimization Strategies*, 142, 161
26. Das S., Mazumder P., Doloi B., Bhattacharyya B., Fabricating tool for ultrasonic machining using reverse engineering, 2017, *International Journal of Computer Integrated Manufacturing*, 1, 10
27. Rathod V., Doloi B., Bhattacharyya B., Fabrication of microgrooves with varied cross-sections by electrochemical micromachining, 2017, *International Journal of Advanced Manufacturing Technology*, 92, 43104, 505, 518
28. Mandal N., Doloi B., Mondal B., Singh B.K., Multi-criteria optimization and predictive modeling of turning forces in high-speed machining of yttria based zirconia toughened alumina insert using desirability function approach, 2017, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 231, 8, 1396, 1408
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5. Collaborative Programmes:

1. All India Workshop on “Six Sigma Fundamentals and Application” during March 16-17, 2018 organized by The Institution & Engineer (India), West Bengal State centre under the aegis of Production Engineering Division Board, IEI in association with Production Engineering Department, Jadavpur University, under the supervision of Prof. B. Sarkar

6. Major Achievements:

SECTION B
[ACADEMIC REPORT. 1.04.2017 TO 31.03.2018]

FACULTY COUNCIL OF SCIENCE

D E P A R T M E N T S

CHEMISTRY

Phone & Fax: +91-33-2414 6223
+ 91 336 2457 2267
Int. : 2457-2267
2457-2147(Inorganic)/ 2104 (Organic)/
2458 (Physical)/2453 (Radio Chemistry)
H.O.D. : Prof. Kalyan Kumar Das
E-mail : hodjuchemistry@gmail.com
hod@chemistry.jdvu.ac.in
hod.chemistry@jadavpuruniversity.in

1. A. Coursed Offered:

Name of the Course	Duration of the Course	No. of Students
B.Sc.	3 years	72 + 63 + 61
M.Sc. (Day)	2 years	40 × 2
M.Sc. (Evening)	3 years	35 × 3

B. Number of Faculty Members:

Professor	Reader/Associate Professor	Assistant Professor
21	2	16

2. A. Area Research Activities:

Prof. Kalyan Kumar Das

Quantum mechanical calculations on Molecular electronics, Nanosensors and Protein-drug interaction.

Prof. Samaresh Bhattacharya

Coordination chemistry, Organometallic chemistry, Catalysis.

Prof. Chittaranjan Sinha

Design of N-heterocycle ligands; and their coordination and organometallic compounds; spectral and electrochemical studies. Emission spectroscopic studies & Design of ion and molecular Sensors; Drug molecule functionalization, drug property studies & docking properties; Metal Organic Framework – Design, Synthesis, characterization and applications. Design of solid phase extractant and their analytical application.

Prof. Subratanath Koner

Coordination Chemistry, Heterogeneous Catalysis, Molecular Magnetism.

Prof. Umesh Chandra Halder

- Physico-chemical modifications of globular proteins and studies on their effect on protein folding and studies on molecular interactions during amorphous or amyloid fibril formation. Our study will be helpful to develop the molecules useful for prevention of protein aggregation responsible for different neurodegenerative diseases like Parkinson and Alzheimer's diseases.
- Studies on interactions of proteins with small molecules including different drugs, nucleic peptides etc.
- Purification, characterization and structure determination of novel serine proteases and their protein inhibitors for their commercial applications.

- d. Developments of nanoparticles based system and their influence on structure, function and aggregation of proteins and also the targeted drug deliver.
- e. Purification and structure determination of a silica leaching protein “Bioremediase, a unique protein from a novel bacterium BhKI, ushering a new hope in concrete technology”.

Prof. Nitin Chattopadhyay

Photochemistry, Biophysical chemistry, Surface chemistry, Steady-state and time- resolved fluorometric study of various photophysical and photochemical processes in homogeneous as well as microheterogeneous environments, Binding of drugs with relevant biological targets like proteins, DNA etc., Fluorescence sensing, Polymer photophysics, Theoretical modeling and simulations of photophysical and/or photochemical observations.

Prof. Swapan Kumar Bhattacharya

Catalysis, Electrochemistry, solution chemistry, Physical Chemistry

Dr. Tanurima Bhaumik

Synthetic Organic Chemistry

Prof. Gourhari Maiti

Multi-component reactions for the synthesis of bioactive heterocyclic compounds.

Development of reagents and methodologies towards the synthesis of heterocyclic molecules of biological importance.

Lewis acid mediated various organic transformations.

Synthesis of small heterocyclic molecules of biological importance by using organocatalyst.

Prof. Soumen Ghosh

Surface and Biophysical Chemistry

Dr. Biplab Bhattacharjee

Theoretical Chemistry: Statistical mechanical formulations and molecular dynamics simulation studies of pure and multicomponent systems.

Prof. Jnan Prakash Naskar

Electrochemistry, Bioinorganic Chemistry and Coordination Chemistry

Dr. Partha Pratim Parui

Fluorescence sensing and analysis of biologically important system.

Dr. Shouvik Chattopadhyay

Inorganic Chemistry (Broad Areas)

Prof. Kajal Krishna Rajak

Inorganic Chemistry.

Dr. Suman Das

Biophysical Chemistry

Dr. Arup Gayen

Heterogeneous catalysis

Dr. Amrita Saha

Coordination Chemistry

Dr. Partha Roy

Inorganic Chemistry

Dr. Tapan Kumar Mondal

- i. Synthesis and characterization of new redox non-innocent azoimine and diimine functionalized heterocyclic ligands and their transition metal complexes.
- ii. Coordination compound of transition metal ions with heterocyclic ligands and study their chemical reactivity through experiments and theoretical studies.
- iii. Synthesis and exploration of potential application of cyclometalated complexes of Platinum Group Metals
- iv. Development of new optical sensors for selective detection of metal ions, anions, reactive oxygen species and nerve agents.

Dr. Umasish Jana

- i. Iron-catalyzed intramolecular alkyne-carbonyl metathesis for the synthesis of structurally diverse organic molecules
- ii. Domino reaction for the synthesis of benzofused heterocycles
- iii. Iron-catalyzed carbon-carbon bond formation via direct substitution of alcohols
- iv. Iron-catalyzed synthesis of heterocycles *via* multicomponent coupling (MCRs) reaction for the synthesis of pharmaceutically important small molecules

Dr. Debajyoti Ghoshal

Metal Organic Frameworks.

Dr. Saurabh Das

Bio-inorganic Chemistry, Chemical Biology

Prof. Sujoy Baitalik

Photophysics and Photochemistry of Coordination Compounds Recognition and Sensing of Selected Ions

Dr. Amit Saha

Synthetic Organic Chemistry

Dr. Mohabul Alam Mondal

Synthetic organic Chemistry

Dr. Samit Guha

Organic and Biomolecular Chemistry; NIR Organic Dyes; Solid Phase Peptide Synthesis; Transmembrane Peptide; Molecular Recognition and Sensing; Membrane Fusion; Synthetic Ion Channel; Synthetic Molecular/Supramolecular Machine

Dr. Partha Mahata

Inorganic and Solid State Chemistry

Dr. Arunabha Thakur

Organometallic Synthesis, Molecular Recognition

Prof. Kausikisankar Pramanik

Coordination and organometallic Chemistry of redox-active ligands

Prof. Subrata Mukhopadhyay

Inorganic Reaction Mechanisms, Supramolecular aspects

B. Major Research Project:

Prof. Rina Ghosh

Completed:

1. "Synthesis of oligosaccharidesbacterial antigens", CSIR, Scheme No. No.02/0186/14/EMR-II, Total Rs. 8.5 Lacs + amount for scholar.Oct 2014-Sept. 2017.
2. As PI in collaboration. "Studies on Anti-thyroidalbamboo-shoots of north east.... Thyroid disruption" DBT-Twin No. BT/471/NE/TBP/2013; My component: 6.75 Lacs; since Jan 2015. /

Running:

3. "Synthesis of oligosaccharides and glycoconjugates related to *Salmonella O-antigens with special reference to one-pot glycosylation reactions*", CSIR, Scheme No. 02(0313)/17/EMR-II, Total Rs. 13.25 Lacs + amount for scholar. May 2017-April, 2020.

Prof. Subratanath Koner

1. UGC: Synthesis, characterization and catalytic applications of metal complex functionalized silica-based mesoporous solids

Prof. Chittaranjan Sinha

Individual : "Rhodamine inspired Sulfonamides : — biomaterial activity" sanctioned by CSIR, New Delhi

Prof. Nitin Chattopadhyay

Name of the Project Unusual fluorescence anisotropies of probes in protic solvents: A new horizon towards salvation.

Project no. EMR/2016/001087

Funding Agency : D.S.T., Govt. of India.

Dr. Partha Roy

(Departmental/Individual, Name of the Project/Funding Agency)

- (i) DST, New Delhi (SERB) sponsored research project (2014-2017)

Sanction amount: Rs. 22.7 lac

Title: Development of New Fluorescent Chemosensors for Zinc(II)

SERB sanction order no. SB/FT/CS-163/2012 dated 23/05/2014

- (ii) DST, New Delhi (SERB) sponsored research project (2013-2017)

Sanction amount: 42 lac

Title: Development of transition metal complexes as catalysts for C–H activation and C–C bond formation: homogeneous vs. heterogeneous media

SERB sanction order no. SB/EMEQ-065/2013 dated 09/07/2013

Prof. Kajal Krishna Rajak

Sl. No.	Title of the Project	Funding Agency	PI
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- | | | | |
|---|--|--------------------------|---------------------------|
| 1 | Chemistry of Rhenium Incorporating Polydentate Ligands: Synthesis, Characterization, Optical Properties and DFT Studies. | DST, Govt of West Bengal | Prof. Kajal Krishna Rajak |
|---|--|--------------------------|---------------------------|

Dr. Suman Das

UGC sponsored Major Project: No.F.43-243/2014(SR) dated 06-07-2015: Binding of flavanoids to duplex and triplex nucleic acid structures: Biophysical and thermodynamic approach

Dr. Arup Gayen

Individual centric DST SERB sponsored project “Tailored nanostructure and nanocomposite oxide materials for steam and dry reforming of methane” (File No. EMR/2016/001811 dated 26.12.2016)

Dr. Amrita Saha

“Design and Synthesis of organic Fluorescent Probes for Detection of Zinc (II) Ion”
DST, SERB, India (Sanction No. SB/FT/CS-102/2014, dated-18.07.2015).

Dr. Tapan Kumar Mondal

- Novel cyclometalated complexes of platinum group metals: Structure, electroluminescence and catalytic aspects (SERB, New Delhi) (No. YSS/2015/001533; Project amount: Rs. 31,91,250/-; Present status: Ongoing).
- Development of new optical and electrochemical sensors for efficient detection of metal ions (CSIR, New Delhi) (No. 01(2831)/15/EMR-II); Project amount: Rs. 6,00,000/-; Present status: Ongoing).

Dr. Debajyoti Ghoshal

Individual, Department of Science and Technology, Govt. of West Bengal

Dr. Saurabh Das

Finished two major research projects during this period

- From Department of Science & Technology, Govt. of West Bengal, India in the form of an R & D project [794(Sanc.)1(10) ST/P/S&T/9G-23/2013].
- UGC-DAE CSR, KC Collaborative Research Schemes (Research Project)reference no. UGC-DAE-CSR-KC/CRS/13/RC03/0886RCS.

Prof. Soumen Ghosh

Name of the Project - Colloidal and Solution Behaviour Solvent

Funding Agency - Council of Scientific and Industrial Research, Govt. of India

Prof. Sujoy Baitalik

- Title of the Project: Synthesis and Properties of Multimetallic Ruthenium(II) and Osmium (II) Complexes of Tridentate ligands : The Quest for Long Lived Excited State at Room Temperature

Funding Agency: CSIR (Project No: 01(2766)/13/EMR-II)

Amount Sanctioned: 12.0 lakhs

Annual Report 2017-18

Duration: 01.11.2013—31.12.2017 (Completed)

2. Title of the Project: Platinum Metal-based Light-Harvesting Assemblies with Polyheterocyclic Ligands: Designing of Functional Materials

Funding Agency: DST-SERB (File NO. EMR/2015/001163)

Amount Sanctioned: 46.9 lakhs

Duration: 30.01.2016—29.01.2019 (Ongoing)

3. Title of the Project: Design of Multichannel Receptors for Anions by Taking Profit of Metal-Ligand Interaction

Funding Agency: CSIR (Project No: 01(2945)/18/EMR-II)

Amount Sanctioned: 12.0 lakhs

Duration: Sanctioned, Fund not yet received

Dr. Amit Saha

1. JU Research grant, 2017
2. UGC Start-up grant, 2018

Dr. Mohabul Alam Mondal

Title of the Project: design and synthesis of 2-aminosugar-based organocatalysts for on-water enamine based asymmetric reactions

Funding Agency: SERB, New Delhi

Project No: EMR/2014/000542

Dr. Partha Mahata

- (i) DST INSPIRE Faculty Award (2013-2019)

Sanction amount: Rs. 35 lac

Title: Synthesis, Structure and Properties of New Porous Metal-Organic Coordination Networks (MOCNs) based on designed Ligands

Sanction order no. IFA12-CH-69

- (ii) SERB sponsored research project (2014-2017)

Sanction amount: 21.6 lac

Title: Uses of Metal-Organic Network compounds as Precursors for the formation of nano-sized ceramic oxides: Spinel and Perovskite

Sanction order no. SB/FT/CS-114/2012

Dr. Arunabha Thakur

Sponsors Title of the project Duration Amount

DST-Inspire, Synthesis and characterization of carbene stabilized mixed binary pnictogens for small molecule activation. 2015-2020. 35 Lakhs

UGC-BSR start up, Stimuli-Responsive Boron-doped Conjugated Oligomers, Polymers, and Macrocycles and Their Applications. 2018-2020, 10 Lakhs

Dr. Samit Guha

PI Project title/Start date/Completion date/Project cost/Sponsoring organization

Dr. SAMIT GUHA, Assistant Professor, Department of Chemistry, Organic Chemistry Section Jadavpur University, Kolkata-700032. Molecular Recognition and Sensing at the Lipid Bilayer-Water Interface and Inside the Lipid Membrane, 19th July 2018, Ongoing (Three years). 4604000 (Forty Six Lakh Four Thousand Only), DST-SERB Early Career Award, GOI ECR/2017/001405

Prof. Jnan Prakash Naskar

A DST (Science & Engineering Research Board), Govt. of India, New Delhi sponsored MRP entitled “Synthesis, Characterization, Electrochemical and Photophysical Aspects of Novel Transition Metal Compounds with Particular Reference to Copper”. Total Budget: Rs. 38,25,600/- (Including Overhead) (No. SB/EMEQ-029/2013) dated 09.07.2013. From: 30/07/2013 to 29/07/2017.

Prof. Subrata Mukhopadhyay

Title: Spatial distribution of Uranium and associated water quality parameters in drinking and ground water/drinking water of five districts (Nadia, Bardhaman, North Twenty four Parganas, Kolkata, Howrah) of West Bengal (India) (as Co PI) DAE/BRNS (Department of Atomic Energy/Bhaba Atomic Research Centre), Government of India

3. A. Invited Lectures Delivered/ Session Chaired:

Prof. Samaresh Bhattacharya

Delivered invited Lectures at

- Kazi Nazrul University
- P. K. College – Contai
- Haldia Institute of Technology
- NIT-Meghalaya
- Guru Nanak Dev University – Amritsar
- Dibrugarh University – Assam
- Kaliaganj College
- Surendranath College
- Itachuna College

Session Chaired at

- NIT-Meghalaya
- MTIC-XVI symposium, Pune
- IACS, Kolkata
- Haldia Institute of Technology

Prof. Soumen Ghosh

- i) Invited Speaker in one day Seminar on “Trends in Surface Science and Related Areas (TSSRA-XIV)”, July 28, 2017 held in Dept. of Chemistry, Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata – 700118.
- ii) Invited Speaker in the National Conference on “Surfactants, Emulsions and Biocolloids

(NATCOSEB-2017)”, November 10-12, 2017 organized by School of Chemistry, Sambalpur University, Jyoti Vihar, Burla, Odisha - 768019 and Indian Society for Surface Science and Technology, Kolkata.

- iii) Invited Speaker as well as **Chairperson** in the International Chemical Congress on “Chemistry for Sustainable Development (ICC-2018)”, March 8-10, 2018 organized by Nepal Chemical Society in co-operation with Dept. of Chemistry, Birendra M. Campus, Bharatpur, Tribhuvan University, Sauraha, Chitwan, **Nepal**.

Prof. Swapan Kumar Bhattacharya

Chaired a session of National Seminar on Current Developments in Chemical Science organised by Department of Chemistry, Jadavpur University, Kolkata-700032, WB, India on March 7, 2018

Prof. Nitin Chattopadhyay

1. Chairing a session in the National Seminar on Current Developments in Chemical Sciences, Organized under Centre for Advanced Studies, Jadavpur University on March 07, 2018.
2. Invited talk in the One day Seminar to commemorate National Science Day, by Bhairab Ganguly College, Belghoria, Kolkata on February 28, 2018.
3. Chairing a Session in IACS Conference on Electronic Structure, Spectroscopy and Dynamics, (IACS-CESSD-2018), IACS, February 22-25, 2018.
4. Resource person in the Academy Lecture Workshop, Viswa-Bharati University, February 12-14, 2018.
5. Invited talk in the Seminar on Icon of Science Personality: Asima Chatterjee, organized by Institute of Science, Education and Culture in BITM, Kolkata on February 10, 2018.
6. Resource person in the Academy sponsored Lecture Workshop on Atom, Molecule & Photon: Structure & Interaction organized by Rishi Bankim College, Naihati, on January 31st, 2018.
7. Resource person in the Workshop organized by the JBNSTS, Kolkata on January 30, 2018 - February 02, 2018.
8. Resource person at the Refresher Course on Recent Advances in Chemistry organized by the Department of Chemistry, Jadavpur University; January 17, 2018.
9. *Plenary Lecture in National Conference on Biomolecular Dynamics-Experimental and Theoretical Perspectives (BDETP-2017), National Institute of Technology Rourkela during December 18-20, 2017.*
10. Invited talk in 18th National Conference on Surfactants, Emulsions and Biocolloids (NATCOSEB-2017), Sambalpur University during November 10-12, 2017.
11. Invited talk in “Recent Trends in Chemistry”, Vidyasagar College, Kolkata on November 07, 2017.

Prof. Chittaranjan Sinha

- (i) C. Sinha delivered speech at Inaugural session as Conference Secretary on 2nd August, 2017 in “National Symposium on Recent Advances in Chemistry & Industry (2017)”, held on August 02 and 03, 2017 at Indian Institute of Engineering Science & Technology, Shibpur, Howrah.
- (ii) C. Sinha delivered an Invited Talk entitled, “Strategy Towards Drug Design : A New

Proposal” in International Science Seminar organised by Shyamsundar College, Burdwan and Indian Chemical Society on “Science: Past, Present & Future” on 12th December, 2017.

- (iii) C. Sinha delivered an Invited Talk on “Sulfonamide derivatives and their metal complexes : A paradigm in the drug discovery” in a National Seminar on “Green Chemistry and Sustainable Development” held on March 24 and 25, 2018 at the J. P. College, Narayanpur, Bhagalpur, Bihar.

Dr. Partha Pratim Parui

1. Invited Lecture in “National Seminar on Current Developments in Chemical Science (7th March, 2018)”: Title: “Role of curvature on interfacial pH/polarity for amphiphilic self-assemblies”.

Prof. Subratanath Koner

Lecture delivered:

1. Delivered lecture on ‘Heterogeneous Catalysis over Metal-Organic Framework’ April 10, 2018, Graduate School of Science, Yokohama City University, Yokohama, Japan.
2. Delivered lecture on ‘Heterogeneous Catalysis over Porous Solids’ April 12, 2018, Graduate School of Chemistry, Kyushu University Campus, Fukuoka, Japan.
3. Delivered lecture as visiting fellow on “Catalysis: Use of mesoporous matrices”; March 21, 2018, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba Campus, Tsukuba, Japan
4. Delivered lecture as visiting Professor on “Heterogeneous Catalysis”; July 13-14, 2018, Zhengzhou University, Henan Province, China

Chairing Session:

1. International Conference on Advancement in Science & Technology , (Indo-Japanese Conference), held at Visva-Bharati, Santiniketan on August 3-4, 2018

Dr. Saurabh Das

Invited Lecture : NATCOSEB - 2017, 18th National Conference on Surfactants, Emulsions & Biocolloids, School of Chemistry Sambalpur University JyotiVihar, Sambalpur, Odisha – 768 019, November 10-12, 2017.

Title of talk: Exploring small hydroxy-9,10-anthraquinones and their metal complexes as effective anticancer agents.

Invited Lecture : MTIC – XVII, Modern Trends in Inorganic Chemistry, CSIR-NCL, Pune, IISER, Pune, SavitribaiPhule Pune University, Pune. December 11-14, 2017.

Title of tlak: Tuning the generation of reactive intermediates of drugs andtheiranaloguesusing inorganic complexes.

Prof. Sujoy Baitalik

1. Delivered an invited lecture in 22nd International Symposium on Photochemistry and Photophysics of Coordination Compounds (ISPPCC) held at St. Catherine’s College, University of Oxford, Oxford, United Kingdom during 9-14 July, 2017.
2. Delivered an invited lecture in a National Symposium on Recent Advances in Chemistry and Industry in commemoration of the 156th birth anniversary of Acharya Prafulla Chandra

Annual Report 2017-18

- Ray organized by Department of Chemistry, Indian Institute of Engineering Science and Technology, Shibpur and the Indian Chemical Society Kolkata during 2-3 August 2017.
3. Delivered an invited lecture in the Departmental Seminar Series organized by Department of Chemistry, Indian Institute of Science Education and Research (IISER), Kolkata, on August 9, 2017.
 4. Delivered an invited lecture at the Modern Trends in Inorganic Chemistry (MTIC)-XVII, Pune, which was jointly organized by the CSIR-National Chemical Laboratory (NCL), Indian Institute of Science, Education, and Research (IISER), Pune, and Savitribai Phule Pune University (SPPU) during December 11-14, 2017.
 5. Delivered an invited lecture on January 17, 2018 in the UGC sponsored Refresher Course in Chemistry entitled "Recent Advances in Chemistry" held in the Department of Chemistry, Jadavpur University, Kolkata, during January 02-22, 2018.
 6. Delivered an invited lecture in the Departmental Seminar Series organized by Department of Chemistry, National Institute of Technology (NIT), Durgapur on January 19, 2018.
 7. Delivered an invited lecture in a two day National Symposium on Facets of Chemistry in Materials and Biology (FOCMB 2018) organized by Department of Chemistry, St. Xavier's College, Kolkata, during February 16-17, 2018.
 8. Delivered an invited lecture in the International Chemical Congress "Chemistry for Sustainable Development" organized by Nepal Chemical Society in co-operation with Department of Chemistry, Birendra M. campus, Bharatpur, Tribhuvan University, Chitwan, Nepal, during March 8-10, 2018.
 9. Delivered an invited lecture in a one day National Seminar on Current Trends in Chemistry-VIII (NSCTC-VIII) at the Department of Chemistry, University of Kalyani, Kalyani, on March 23, 2018.
 10. Chaired a session in a two day National Symposium on Facets of Chemistry in Materials and Biology (FOCMB 2018) organized by Department of Chemistry, St. Xavier's College, Kolkata, during February 16-17, 2018.

Prof. Rina Ghosh

1. National Conference on Surfactants, Emulsions and Biocolloids (NATCOSEB 2017), November 10-12, 2017, organized by School of Chemistry, Sambalpur University, Odisha.
2. CARBO-XXXII, 'Emerging Chemistry and Biology of Carbohydrates (ECBC-2017)', December 18-20, 2017 in the Department of Chemistry, IIT, Kharagpur.
3. 'International Conference on Chemistry for Human Development (ICCHD-2018)', January 8-10, 2018 at Heritage Institute of Technology, Kolkata in collaboration with University of Calcutta.
4. National Symposium on Contribution of Women in Science in India (NSCWSI-2018), February 15-16, 2018, organised by Indian Science News Association (INSA) at University College of Science, University of Calcutta.
5. Refresher Course on Chemistry organized by the Department of Chemistry, Jadavpur University, Kolkata during Jan 2-24, 2018.
6. International Seminar on Recent Advances in Molecules & Materials (RA2M-2018), held at Haldia Institute of Technology, Haldia, WB on 2nd and 3rd August, 2018.

Dr. Partha Mahata

Invited Lectures in “HyPe – 2017 (A discussion meeting on hybrid perovskites)” on 14th -15th December, 2017 at S.N. Bose National Centre for Basic Sciences, Kolkata.

Dr. Arunabha Thakur

Oral presentation on “Ferrocenyl electrochemical chemosensors: Application in molecular logic” by Arunabha Thakur, on 2nd April, 2018 at IISER-Kolkata.

Dr. Samit Guha

Chair the Session, REFRESHER COURSE ON Recent Advances in Chemistry, Department of Chemistry (January 02-24, 2018), Date 05/01/18, Time 4.00-5.30 pm, Speaker Prof. G. Maiti.

Chair the Session, Date 20/01/18, Time 2.20 – 3.50 pm, Speaker Prof. Rina Ghosh

Prof. Gourhari Maiti

Application of Free Radicals in Organic Syntheses: A Brief Overview, Refresher Course on “Recent Advances in Chemistry” Department of Chemistry, Jadavpur University, January 02-24, 2018.

Prof. Umesh Chandra Halder

Delivered an invited lecturer entitled “Understanding protein folding from globular to amyloid state Aggregation: Darker side of protein” in the Refresher Course (2018) organized by Dept. of Chemistry, Jadavpur University on January 20, 2018.

Prof. Jnan Prakash Naskar

1. Performed as a Resource Person in the capacity of Laboratory Teaching in the UGC-Human Resource Development Centre, Jadavpur University joint organized Refresher Course in Chemistry entitled “Recent Advances in Chemistry” held in the Department of Chemistry, Jadavpur University, Kolkata 700 032, India during January 02-24, 2018, Date: January 15, 2018
2. Performed as the Chairman to conduct a lecture in the UGC-Human Resource Development Centre, Jadavpur University joint organized Refresher Course in Chemistry entitled “Recent Advances in Chemistry” held in the Department of Chemistry, Jadavpur University, Kolkata 700 032, India during January 02-24, 2018 Date: January 13, 2018 (Saturday) at 04:00 pm-5:30 pm (Speaker: Prof. S. Koner)
3. Performed as a Resource Person in the capacity of delivering lecture in the UGC- Human Resource Development Centre, Jadavpur University joint organized Refresher Course in Chemistry entitled “Recent Advances in Chemistry” held in the Department of Chemistry, Jadavpur University, Kolkata 700 032, India during January 02-24, 2018. Title of the talk: “Some Salient Aspects of Electrochemistry with Pertinent Citations”
4. Delivered an invited talk entitled “Biological Perspectives of Some Novel Palladium(II) Complexes” in the series of special lectures held on 29/03/2018, organized by the Department of Chemistry, University of North Bengal, Darjeeling, 734 013 under its UGC SAP DRS-III program.

Dr. Tapan Kumar Mondal

Invited Talk’ in the 54th Annual Convention of Chemists of Indian Chemical Society, held on December, 23-25, 2017, Venue: Uka Tarasadia University, Bardoli, Surat.

B. Seminar/ Workshop / Conference/ Symposium Attended:

Prof. Umesh Chandra Halder

- i) Subrata Sardar, Rakrishna Dalai and Umesh Chandra Halder, “ Facile synthesis and Characterization of beta lactoglobulin-copper nanocomposites having antibacterial application” Participated and presented the poster in International Conference on Chemistry on Human Development (ICCHD) at Heritage Institute of Technology, Kolkata, Jan 08-10, 2018.
- ii) Hasan Parvej, Shahnaz Begum, Sanhita Maity and Umesh Chandra Halder, “Methionine oxidation reduces thermal stability of bovine beta lactoglobulin and modulates the routes of amyloid fibril formation” Participated and presented the poster in International Conference on Chemistry on Human Development (ICCHD) at Heritage Institute of Technology, Kolkata, Jan 08-10, 2018
- iii) Subrata Sardar, Rakrishna Dalai, Hasan Parvej, Shahnaz Begum and Umesh Chandra Halder, “Silver nanoparticle modulates the aggregation of beta lactoglobulin and induces to form rod-like aggregates” Participated and presented the poster in National Seminar on Current Developments In Chemical Sciences held at the Department of Chemistry, Jadavpur University, Kolkata-700032 on March 07, 2018

Dr. Tanurima Bhaumik

- i) Poster presented in the 17th biennial symposium, ‘Modern Trends in Inorganic Chemistry’ (MTIC-XVII) held at CSIR-NCL, Pune and IISER, Pune during December 11-14, 2017.
- ii) Poster presented in National Seminar on ‘Current Developments in Chemical Sciences’ (CDCS-2018) under Centre for Advanced Studies II Program organized by the Department of Chemistry, Jadavpur University, Kolkata 700032 on March 07, 2018.

Prof. Chittaranjan Sinha

- (i) Oral presentation on “Photoresponsive coordination polymer: structure study and photochromism”, Contributory Paper (Award/Poster)-9, page 75, Book of Abstract, 2017 in ; the “National Symposium on Recent Advances in Chemistry & Industry (2017)”, held on August 02 and 03, 2017 at Indian Institute of Engineering Science & Technology, Shibpur, Howrah.
- (ii) Delivered Inaugural speech on “Acharya Prafulla Chandra Ray ; Father of Indian Chemistry” as Joint Convener in International Science Seminar organised by Burdwan Raj College and Indian Chemical Society on 10th October, 2017.
- (iii) Delivered a talk entitled, “Bonding in Chemistry” in a National Seminar held on February 28, 2018 at the MugberiaGangadharMahavidyalaya, PurbaMedinipur, West Bengal to commemorate National Science Day Celebration of the Country.
- (iv) Delivered a Talk entitled, “Fundamental and applications of Fluorescence Spectroscopy” in a National Seminar on March 08, 2018 at the Saldiah College, Bankura, West Bengal on “Recent Advances in Chemistry”.

Prof. Soumen Ghosh

- i) International Conference on “Emerging Materials (ICEM 2017, April 20-21, 2017)” organized by Department of Chemistry and Chemical Technology, Vidyasagar University, Midnapore - 721102, W. B.

Dr. Partha Roy

- (i) Poster Presentation on, "Rhodamine based Schiff-base molecule as selective and sensitive fluorescent chemosensor for Al^{3+} " by **Ankita Roy** and **Partha Roy**, Modern Trends in Inorganic Chemistry-XVII, held on December 11-14, 2017, CSIR-NCL, Pune and IISER, Pune.
- (ii) Poster Presentation on, "Mono-, tri- and polynuclearcopper(II) complexes of Schiff-base ligands employed in catalyzing alcohol oxidation reaction" by Aradhita Bhattacharjee, Ankita Roy, Dinesh Maity, Ananta Hazra, Arpita Barma and **Partha Roy**, Current Developments in Chemical Sciences (CDCS), held on March 07, 2018, Jadavpur University, Kolkata.

Dr. Shouvik Chattopadhyay

Recent advances in Chemistry (UGC sponsored), 3 weeks (02.01.2018-24.01.2018), Department of Chemistry, Jadavpur University,

Prof. Gourhari Maiti

Current Developments in Chemical Sciences, March 07, 2018 organized by Department of Chemistry, Jadavpur University, Kolkata-700032.

Dr. Partha Pratim Parui

National Seminar on Current Developments in Chemical Science, Department of Chemistry, Jadavpur University (March 7, 2018).

Prof. Rina Ghosh

National seminar on 'Current developments in chemical sciences' on 7th March, 2018 under CAS-II program in Chemistry, in the Department of Chemistry, Jadavpur University, Kolkata 700032.

Prof. Suman Das

National Seminar on Current Developments in Chemical Science, Department of Chemistry, Jadavpur University (March 7, 2018).

Dr. Arup Gayen

National Seminar on Current Developments in Chemical Science, Department of Chemistry, Jadavpur University (March 7, 2018).

Dr. Amrita Saha

- A. Modern Trends in Inorganic Chemistry (MTIC-XVII), 2017, CRIR-NCL, Pune and IISER, Pune 11-14 th December 2017 .
- B. Current Developments in Chemical Sciences, (CDCS-2018), Jadavpur University, 07th March 2018.

Dr. Umasish Jana

National Seminar on " Current developments in chemical sciences (CDCS-2018), 7th March, 2018, Department of Chemistry, Jadavpur University.

Prof. Nitin Chattopadhyay

1. 14th DAE-BRNS Biennial Trombay Symposium on Radiation and Photochemistry (TSRP-2018), BARC, Mumbai during January 03-07, 2018.
2. 87th Annual Session of the National Academy of Sciences India and Symposium on Basic Research: Its Role in National Development at Pune during December 08-10, 2017.

Dr. Amit Saha

Attended the National Seminar on "Current Developments in Chemical Sciences (CDCS-2018)" on March 7, 2018 in Department of Chemistry, Jadavpur University

Dr. Partha Mahata

1. International Conference on Emerging Materials on 20th – 21st April, 2017 at Department of Chemistry and Chemical Technology Vidyasagar University Midnapore, West Bengal, INDIA.
2. “HyPe – 2017 (A discussion meeting on hybrid perovskites)” on 14th -15th December, 2017 at S.N. Bose National Centre for Basic Sciences, Kolkata.

National Seminar on Current Developments in Chemical Sciences (CDCS), held on March 07, 2018, Jadavpur University, Kolkata.

Dr. Arunabha Thakur

Name of Author Name of the Paper Presented Name of the Seminar Place, Duration
Arunabha Thakur*, Sushil Ranjan Bhatta, Manisha Karmakar, ICT-Isomerization Induced Turn-On Fluorescence Probe with a Large Emission Shift for Mercury Ion: Application in Combinational Molecular Logic. National Seminar on “Current Developments in Chemical Sciences” CENTER FOR ADVANCED STUDIES II, 7th March, 2018, Jadavpur University, Kolkata

Dr. Samit Guha

- (a) Poster presentation “Artificial SNARE Protein Induced Membrane Fusion”, **Samit Guha***, Pranab Saha, Ayan Mukherjee. International Conference on Chemistry for Human Development (ICCHD-2018), Date 8th to 10th January 2018, Venue: Heritage Institute of Technology, Kolkata.
- (b) Poster presentation “Synthetic SNARE Protein Mediated Membrane Fusion” Anindita Sarkar, Ayan Mukherjee, Pranab Saha, Monimala De, Samit Guha* National Seminar on Current developments in chemical sciences, Centre for Advanced Studies II Program UGC, March 7, 2018. Organized by Department of Chemistry, Jadavpur University.
- (c) Poster presentation “Development of pH Sensors for Acid Activated Photothermal Heating and Content Release”.

Subhrajyoti Das, Kabita Gupta, Ashim Kr. Biswas, Ayan Mukherjee, Madhusmita Saha, and Samit Guha* International Symposium on Chemistry for the Human Welfare, Department of Chemistry, University of Gour Banga, Malda, India 7th April 2017.

- (d) Poster presentation “Croconaine-Doped Lipid-Polymer Hybrid for Photothermal Therapy”. Shreyashree Sarkar, Sumiha Choudhury, Ashim Sen, Biplab Roy, Debabrata Mitra, and Samit Guha* International Symposium on Chemistry for the Human Welfare, Department of Chemistry, University of Gour Banga, Malda, India 7th April 2017.

Prof. Jnan Prakash Naskar

National Symposium entitled ‘Facets of Chemistry in Materials & Biology, FOCMB-2018’

Venue: Fr. Depelchin Auditorium, St. Xavier’s College (Autonomous)

Date: February 16 to February 17, 2018

Hosted by: Department of Chemistry, St. Xavier’s College (Autonomous)

(Chaired the Poster Session on February 16, 2018)

C. Seminar/ Workshop Conference / Symposium Organized:

Prof. Chittaranjan Sinha

- (i) Convener of 54th Annual Convention of Chemists & National Symposium held on 23-25 December, 2017 at UkaTarsadia University, Bardoli, Surat. Delivered Secretarial Speech

at inaugural session, Award giving ceremony and Valedictory Session. The programme was inaugurated by Dr. Amitava Das, Director, CSMCRI, Bhavnagar, Gujrat. In presence of Shri.B. U. Patel and Shri.Naranbhai G. Patel, Shri Shailesh Patel founder of this institute.

- (ii) Joint Convener of Lecture Workshop entitled “Revisit of Chemistry on Undergraduate Course– Past, Present & Future”, held on February 16, 2018 at the Department of Chemistry, Surendranath College, Kolkata, West Bengal.
- (iii) Joint Convener of Lecture Workshop entitled “Modern Trends in Chemistry – Teaching & Research”, held on February 17 and 18, 2018 at the Department of Chemistry, Malda College, Malda, West Bengal.
- (iv) Member of National Organizing Committee to One Day National Seminar on “Current Developments in Chemical Sciences” held on March 7, 2018, in the Department of Chemistry, Jadavpur University. Poster presented on (i) “Photosensitivity of Dicarboxylato Bridged Azoimidazolyl Appended Helical Supramolecular Aggregates” by Kaushik Naskar, Basudeb Dutta, Chittaranjan Sinha, P11 (Book of Abstract) and (ii) “Fabrication and Electrical Application of a Zn(II)-based Coordination Polymer (CP)”, by Srikanta Jana, Basudeb Dutta, Chittaranjan Sinha, P12 (Book of Abstract).

Prof. Swapan Kumar Bhattacharya

National Seminar on Current Developments in Chemical Science organised by Department of Chemistry, Jadavpur University, Kolkata-700032, WB, India on March 7, 2018

Prof. Sujoy Baitalik

Organized a National Seminar on Current Developments in Chemical Sciences under Centre for Advanced Studies II Program at Triguna Sen Auditorium, Jadavpur University, Kolkata, on March 7, 2018.

Dr. Mohabul Alam Mondal

National Seminar on “Current Developments in Chemical Sciences”, held on 7th March 2018 at Trigunasen Auditorium Organised by Department of Chemistry, Jadavpur

Dr. Partha Mahata

Convener in National Seminar on Current Developments in Chemical Sciences (CDCS), held on March 07, 2018, Jadavpur University, Kolkata.

Dr. Samit Guha

Samit Guha, Organizing Committee: International Symposium on Chemistry for the Human Welfare, Department of Chemistry, University of Gour Banga, Malda, India 7th April 2017.

Prof. Jnan Prakash Naskar

National Seminar on ‘Current Developments in Chemical Sciences’

Venue: Dr. Triguna Sen Auditorium, JU Campus, Kolkata: 700 032

Date: March 07, 2018

Hosted by: Department of Chemistry, Jadavpur University, Kolkata: 700 032 under UGC *Centre for Advanced Studies II Program* (Participated and acted as a member of the Organizing Committee)

D. Orientation Courses/ Refresher Courses Attended:

Dr. Amrita Saha

UGC-Sponsored Refreshers Course on Recent Advances in Chemistry from 2nd January, 2018 to 24th January, 2018, Jadavpur University.

Prof. Rina Ghosh

Delivered invited lecture in the Refresher Course on Chemistry organized by the Department of Chemistry, Jadavpur University, Kolkata during Jan 2-24, 2018.

Dr. Amit Saha

Attended the Refreshers Course in UGC-HRDC, Jadavpur University on the topic of "Environmental Science and Disaster Management"

Dr. Partha Mahata

1. Orientation Course

(OP-NBU-31) of the UGC Human Resource Development Centre (Erstwhile UGC Academic Staff Collage), University of North Bengal (August 02, 2017 to August 29, 2017).

2. Refresher Courses

On Chemistry entitled, "Recent Advances in Chemistry" during 2-24 January, 2018 organized by Department of Chemistry and UGC-Human Resource Development Centre, Jadavpur University (January 02, 2018 to January 24, 2018).

Dr. Tanurima Bhaumik

Participated in the UGC-Sponsored Refresher Course on 'Recent advances on Chemistry' from January 02-24, 2018 organized by Human Resource Development Centre (HRDC), Jadavpur University, Kolkata.

E. Orientation Courses/ Refresher Courses Organized:

Prof. Chittaranjan Sinha

Course Coordinator. Course duration 02-24 January, 2018. 41 College/University Assistant Professor joined in this programme for long three weeks. 48 Speakers delivered on high level teaching and research. Speakers from IIT, DST Institutes, CSIR Institutes, Central and State Universities and Colleges presented their talk and research on "Recent Advances in Chemistry". Discussion on origin of chemical bond, quantum mechanics, organometallics & catalyses, electrochemistry, redox non-innocent ligands, biological and medicinal chemistry, photophysics & photochemistry, nanomaterials & soft matters, chemical kinetics & spectroscopy are discussed. Participants visited laboratories, libraries, presented their project reports and microteaching and finally an Objective Tests.

Prof. Swapan Kumar Bhattacharya

As a resource person in the refreshers course organized by Department of Chemistry, Jadavpur university on 02 to 24 January, 2018

4. A. Books/ Monographs etc. Published:

Prof. Swapan Kumar Bhattacharya

Polymer electrolyte membranes for microbial fuel cells: Part B, **CHAPTER 5** in the Book namely: Progress and Recent Trends in Microbial Fuel Cells

Author: Suparna Das, Kingshuk Dutta, Swapan Kumar Bhattacharya, Patit Paban Kundu
Publisher: Elsevier, year: 2017

B. Articles Published in Journals:

Prof. Samaresh Bhattacharya

1. Di-ruthenium complexes having diphosphines and carbonyls: Formation, structure, and catalytic hydrogenation of alkynes, A. Mukherjee, P. Paul and S. Bhattacharya, *J. Organomet. Chem.* 2017, 834, 47-57.
2. A new diphosphine-carbonyl complex of ruthenium: an efficient precursor for C–C and C–N bond coupling catalysis, A. Mukherjee, D. A. Hrovat, M. G. Richmond and S. Bhattacharya, *Dalton Trans.* 2018, 47, 10264-10272.
3. N-(Aryl)pyrrole-2-alimine complexes of ruthenium: Synthesis, characterization and catalytic transfer-hydrogenation, R. Kumar, P. Paul and S. Bhattacharya
J. Indian Chem. Soc. 2018, 95, 721-728. (Invited paper for the Special Issue on “*Organometallics and Catalyses*”)
4. A group of diphosphine-thiosemicarbazone complexes of palladium: Efficient precursors for catalytic C-C and C-N coupling reactions, K. Thapa, P. Paul and S. Bhattacharya, *Inorg. Chim. Acta* 2018, in press.

Prof. Soumen Ghosh

- i) “Effect of curcumin on the binding of cationic, anionic and nonionic surfactants with myoglobin”, Satyajit Mondal and Soumen Ghosh, *J. Molecular Structure* 1134 (2017) 292-297.
- ii) “Physicochemical responses of lysozyme on interaction with the ionic liquid (IL), 1-butyl-3-methylimidazolium tetrafluoroborate [BMIM][BF₄] in aqueous phosphate buffer medium”, Bithika Mandal, Soumen Ghosh and Satya Priya Moulik, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 522 (2017) 266-271.
- iii) “Interaction of some atmospheric constituents and climatic parameters on surface ozone over Lucknow (26.5oN, 80.5oE), INDIA”, Pratap Kumar Jana, Soumen Bhattacharyya, Pranabesh Das and Soumen Ghosh, *ZENITH International Journal of Multidisciplinary Research (zenithresearch.org.in)* 7 (3), MARCH (2017), 10-27.
- iv) “Spectroscopic Studies on the Interaction of Dye and Surface Active Ionic Liquid”, Nitai Patra, Bithika Mandal and Soumen Ghosh, *Industrial & Engineering Chemistry Research* 56 (2017) 10044-10052.
- v) “Impact of organic polar solvents (DMSO and DMF) on the micellization and related behavior of an anionic (AOT), cationic (CEM₂AB) and cationic gemini surfactant (16-5-16)”, Apensu Dey, Nitai Patra, Arpan Mal and Soumen Ghosh, *J. Molecular Liquids* 244 (2017) 85-96.
- vi) “Effect of an anionic surfactant (SDS) on the photoluminescence of grapheme oxide (GO) in acidic and alkaline medium”, Prosenjit Saha, Dinesh Kumar Pyne, Srijon Ghosh, Soumadip Banerjee, Sourav Das, Soumen Ghosh, Partha Dutta and Arnab Halder, *RSC Advances* 8 (2018) 584-595.
- vii) “Interaction between a non-steroidal anti-inflammatory drug (Ibuprofen) and an anionic surfactant (AOT) and effects of salt (NaI) and hydrotrope (4-4-4)”, Apensu Dey, Victoria Sandre, Daniel Gerrard Marangoni and Soumen Ghosh, *J. Physical Chemistry B* 122 (2018) 3974-3987.
- viii) “Ionic liquid mediated micelle to vesicle transition of a cationic gemini surfactant: a

spectroscopic investigation”, Sonali Mondal, Animesh Pan, Animesh Patra, Rajib Kumar Mitra and Soumen Ghosh, *Soft Matter* 14 (2018) 4185-4193.

- ix) “Physicochemistry of CTAB-SDS interacted cationic micelle-vesicle forming system: An extended exploration”, Arpan Mal, Surajit Bag, Soumen Ghosh and Satya P. Moulik, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 553 (2018) 633-644.
- x) “Exploring physicochemical interactions of different salts with Sodium *N*-Dodecanoyl Sarcosinate in aqueous solution”, Nitai Patra, Debes Ray, Vinod Kumar Aswal and Soumen Ghosh, *ACS Omega* 3 (2018) 9256-9266.

Prof. Swapan Kumar Bhattacharya

1. Kinetic parameters of anodic oxidation of methanol in alkali: Effect of diameter of Pd nanocatalyst, composition of electrode and solution and mechanism of the reaction’, Ankita Mahajan, Senjuti Banik, Partha Sarathi Roy, Sreya Roy Chowdhury, Swapan Kumar Bhattacharya* *Int J of Hydrogen Energy*, 42(2017)21263-21278
2. Size control synthesis and amperometric sensing activity of Palladium nanoparticles for Glucose detection, A Mahajan, S Banik, S Roy Chowdhury, P. S. Roy and S. K. Bhattacharya, *Materials Today: Proceedings* 5 (2018) 2049–2055.
3. Enhanced and Synergistic Catalysis of Green Synthesized Pd-Ag Alloy Nanoparticles for Anodic Oxidation of Propan-2-ol in Alkali. Sreya Roy Chowdhury, Kamal Kanti Bera, Swapan Kumar Bhattacharya, *Materials Today: Proceedings* 5 (2018) 2171–2178
4. Phase control synthesis of α , β and α/β Bi_2O_3 hetero-junction with enhanced and synergistic photocatalytic activity on degradation of toxic dye, Rhodamine-B under natural sunlight, Kamal Kanti Bera, Rituparna Majumdar, Malay Chakraborty, Swapan Kumar Bhattacharya, *Journal of Hazardous Materials*, 352(2018)182-191
5. *Electrochemical properties of TiO₂-V₂O₅ nanocomposites as a high performance supercapacitors electrode material*, A Roy, A Roy, P Sadhukhan, S Roy Chowdhury, P Maji, S K Bhattacharya, S Das, *Applied Surface Science*, 443(2018)581-591
6. Nanostructured Polyaniline: An Efficient Support Matrix for Platinum-Ruthenium Anode Catalyst in Direct Methanol Fuel Cells, S. Das, K. Dutta, P. P. Kundu, S. K. Bhattacharya, DOI: 10.1002/fuce.201700201

Dr. Subratanath Koner

1. D. Saha, S. Gayen and S. Koner, Cu(II)/Cu(II)-Mg(II) Containing Pyridine-2,5-dicarboxylate Frameworks: Synthesis, Structural Diversity, Inter-conversion and Heterogeneous Catalytic Epoxidation, *Polyhedron* 146 93–98 (2018).
2. S. Gayen, D. Saha and S. Koner, Quinoline derivative containing monomeric and polymeric metal carboxylates: Synthesis, crystal structure and gas adsorption study over a 2D layered framework, *J. Mol. Struct.* 1162 10-16 (2018).
3. S. Biswas, S. Gayen, T. Maity and S. Koner, Small gas molecules access into void space of H-bonded 3D network consist of 2D cadmium(II) layer, *Inorg. Chim. Acta* 461, 21–26 (2017).

Prof. Chittaranjan Sinha

- (i) “Cation dependent charge transport in linear dicarboxylate based isotypical 1D coordination Polymers” by Faruk Ahmed, Joydeep Datta, Basudeb Dutta, Kaushik Naskar, Chittaranjan

- Sinha, Seikh Mafiz Alam, Suman Kundu, Partha Pratim Ray and Mohammad Hedayetullah Mir, *RSC Adv.*, 2017, 7, 10369–10375 (June, 2017).
- (ii) “A rare cobalt(III) paramagnetic derivative incorporating 1-alkyl-2-[(o-thioalkyl) phenylazo] imidazole (SMeaaNET): EPR, redox and magnetic interpretation” by S. Nandi, K. Das, A. Datta, S. Roy, E. Garribba, T. Akitsu, C. Sinha, *Inorg. Chim. Acta*, 462 (2017) 75 – 81 (June, 2017).
 - (iii) “Pyridylthioether-hydroxycoumarin Schiff base as selective Zn²⁺ fluorescence sensor, application in life cell imaging and uses of resulting complex as secondary probe for ATP sensing” by C. Patra, C. Sen, A. D. Mahapatra, D. Chattopadhyay, A. Mahapatra, C. Sinha, *J. Photochem. Photobiol. A: Chem.*, 341 (2017) 97-107 (May, 2017).
 - (iv) “A zig-zag end-to-end azido bridged Mn^{III} 1-D coordination polymer: Spectral elucidation, magnetism, redox study and biological activity” by K. Das, A. Datta, B. B. Beyene, C. Massera, E. Garribba, C. Sinha, T. Akitsu, S. Tanka, *Polyhedron*, 127 (2017) 315-322 (May, 2017).
 - (v) “Synthesis, spectral elucidation, electrochemistry and DFT interpretation of manganese(II)-thioalkyl-arylazoimidazole complex” by S. Nandi, K. Das, A. Datta, D. Banerjee, S. Roy, T. K. Mondal, D. Mandal, P. K. Nanda, T. Akitsu, S. Tanaka, C. Sinha, *J Mol. Struct.*, 1133 (2017) 574-579 (April, 2017).
 - (vi) “Intercatenated Coordination Polymers (ICPs) of Carboxylato Bridged Zn(II)-Isoniazid and Their Electrical Conductivity” by Kaushik Naskar, Arka Dey, Basudeb Dutta, Faruk Ahmed, Chandana Sen, Mohammad Hedayetullah Mir, Partha Pratim Roy and Chittaranjan Sinha, *Cryst. Growth Des.* 2017, 17, 3267-3276 (April, 2017).
 - (vii) “Antibacterial activities of sulfamethoxazolyl azo phenols and their Cu(II) complexes along with molecular docking properties” by Nilima Sahu, Sudipa Mondal, Nayim Sepay, Suvroma Gupta, Elena Torres Lopez, Shinnosuke Tanaka, Takashiro Akitsu, Chittaranjan Sinha, *J. Biol. Inorg. Chem.*, 22 (2017) 833–850 (April, 2017).
 - (viii) “EPR interpretation, magnetism and biological study of a Cu(II) dinuclear complex assisted by a schiff base precursor”, by K. Das, C. Patra, C. Sen, A. Datta, C. Massera, E. Garribba, M. Salah El Fallah, B. B. Beyene, C.H. Hung, C. Sinha, T. Askun, P. Celikboyun, D. Escudero, A. Frontera, *J. Biol. Inorg. Chem.*, 22 (2017) 481–495 (June, 2017).
 - (ix) “Sulfamethoxazolyl-azo-acetylacetonato complexes of: Spectroscopic characterization, biological activities and theoretical computation of manganese (II) and copper (II) complexes of sulfamethoxazolyl-azo-acetylacetonate” by Dipankar Das, Ipsita De, Nilima Sahu Suman Roy, Nayim Sepay, Paramita Dutta, Suvroma Gupta, Chittaranjan Sinha, *J. Indian Chem. Soc.*, 2017, 94, 469 – 480 (April, 2017).
 - (x) “Macrocyclaza-crown chromogenic reagent to Al³⁺ and fluorescence sensor for Zn²⁺ and Al³⁺ along with live cell application and logic operation” by A. K. Bhanja, C. Patra, S. Mondal, S. Mishra, K. Das Saha, C. Sinha, *Sensors and Actuators B: Chemical*, 2017, 252, 257 – 267 (November, 2017).
 - (xi) “Mycobacterium tuberculosis sterol 14 α -demethylase inhibitor sulfonamides: Identified by high-throughput screening” by Sayantan Pradhan and Chittaranjan Sinha, *J. Indian Chem. Soc.*, 2017, 94, 457-468 (April, 2017).
 - (xii) Anup Kumar Bhanja and Chittaranjan Sinha, A turn-on Coumarinyl Schiff Base fluorescence sensor to Zn²⁺ ion, *Sci. Adv. Today* 3 (2017) 25274 (May, 2017).

- (xiii) "A fluorescence 'turn-on' chemodosimeter for the specific detection of Pd²⁺ by a rhodamine appended Schiff base and its application in live cell imaging" Anup Kumar Bhanja, Snehasis Mishra, Krishna Das Saha and Chittaranjan Sinha, Dalton Trans., 2017, 46, 9245 – 9252 (April, 2017).
- (xiv) "Structure, antimicrobial activity and molecular docking study of novel o-vaniline based sulfamethoxazolyl derivatives" by Nilima Saha, Sudipa Mondal, Kaushik Naskar, Suvroma Gupta, D. Kaleeswaran and Chittaranjan Sinha, J. Indian Chem. Soc., 94 (2017) 1387-1401 (November, 2017).
- (xv) Combating prostate cancer by sulfonamide compounds : Theoretical prediction, S.Pradhan and C. Sinha, J. Indian Chem. Soc., 2017, 94, 1113-1122 (October, 2017).
- (xvi) "Spectroscopic characterization, antimicrobial activity and molecular docking study of novel azo-imine functionalized sulphamethoxazoles", N. Sahu, S. Mondal, K. Naskar, A. D. Mahapatra, Gupta, S., Slawin, A.M.Z., Chattopadhyay, D., Sinha, C. J. Mol. Str., 1155 (2018) 152-164 (March, 2018).
- (xvii) "A visible light excitable chromone appended hydrazide chemosensor for sequential sensing of Al³⁺ and F⁻ in aqueous medium and in Vero cells" by R. Purkait, C. Patra, A. D. Mahapatra, D. Chattopadhyay, C. Sinha, Sensors and Actuators, B: Chemical, 257 (2018) 545-552 (October, 2017).
- (xviii) "Structure, spectra and electrical conductivity of copper(I) and silver(I) phosphino bridging mixed ligand complexes with coumarinyl Schiff base" by S. Roy, T. K. Mondal, A. Layek, R. Saha, C. Sinha, Inorg. Chim. Acta, 469 (2018) 523-535 (January, 2018).
- (xix) A hydrazine-based thiocarbamide probe for colorimetric and turn-on fluoremetric detection of PO₄³⁻ and AsO₃³⁻ in semi-aqueous medium" by Rakesh Purkait, Suwendu Maity, Chittaranjan Sinha, New J. Chem., 2018, 42, 6236—6246 (March, 2018)
- (xx) "Sulfonamide derivatives as Mycobacterium tuberculosis inhibitors: In-silico Approach", Syantan Pradhan, C. Sinha In Silico Pharmacology (2018) 6:4312. "Arylazoimidazole complexes of lead(II)-halide and their photochromism" by Debashis Mallick, Bharati Chowdhury, Chandana Sen, Kamal Krishna Sarkar, Srikanta Jana, Sudipa Mondal and Chittaranjan Sinha, Indian Journal of Chemistry, Vol. 57A, March 2018, pp. 418-426
- (xxi) "Correlation between the dielectric and electrochemical properties of TiO₂-V₂O₅ nanocomposite for energy storage application", Ray, A., Roy, A., Bhattacharjee, S., Jana, C. K. Ghosh, Sinha, C., Das, S. Electrochimica Acta, March 2018, 266, pp. 404-413
- (xxii) "Synthesis, characterization, photochromism and theoretical interpretation of bis-(triphenylphosphine)-Cu(I)- and Ag(I)-(1-alkyl-2-(arylazo)imidazole) complexes" by Bharati Chowdhury, Kaushik Naskar, Debashis Mallick, Chandana Sen, Kamal Krishna Sarkar and Chittaranjan Sinha, J. Indian Chem. Soc., 2018, 95, 405-516.
- (xxiii) "Arylazoimidazole Coordinated and Naphthalene-Dicarboxylato Bridged Polymers of Co(II) and Photochromic Zn(II) Complexes" by Kaushik Naskar, Suwendu Maity, Srikanta Jana, Basudeb Dutta, Shinnosuke Tanaka, Debashis Mallick, Takashiro Akitsu, and Chittaranjan Sinha, Cryst. Growth Desg. March 2018, 18, 2986-2997.

Prof. Rina Ghosh

1. A target oriented expeditious approach towards synthesis of certain bacterial rare sugar derivatives, A. Chaudhury, R. Ghosh, *Org. Biomol. Chem.*, 2017, 15, 1444.
2. Synthetic routes towards acidic pentasaccharide related to the O-antigen of *E. coli* 120

- using one-pot sequential glycosylation reactions. M.M. Mukherjee, R. Ghosh, *J. Org. Chem.*, 2017, 82, 5751.
3. Perimidine based selective colorimetric and fluorescent turn-off chemosensor of aqueous Cu²⁺: studies on its antioxidant property along with its interaction with calf thymus-DNA. D. Roy, A. Chakraborty, R. Ghosh, *RSC Adv.* 2017, 7, 40563.
 4. Coumarin based colorimetric and fluorescence on-off chemosensor for F⁻, CN⁻ and Cu²⁺ ions, D. Roy, A. Chakraborty, R. Ghosh, *Spectrochim. Acta A: Mol. Biomol. Spectroscopy* 2018, 191, 69.
 5. Synthetic avenues towards the tetrasaccharide related to Streptococcus pneumonia of serotype 6A, A. Chaudhury, M. M. Mukherjee, R. Ghosh, *Beilstein J. Org. Chem.* 2018, 14, 1095.
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Prof. Umesh Chandra Halder

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Dr. Amit Saha

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Dr. Mohabul Alam Mondal

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Dr. Partha Mahata

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Dr. Arunabha Thakur

Naphthalene-Glycine Conjugate: An Extremely Selective Colorimetric Chemosensor for Iodide Ion in Aqueous Solution., ArunabhaThakur*, Sushil Ranjan Bhatta, Bijan Mondal, Deepak Kakash, Piyush Chawla

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Prof. Jnan Prakash Naskar

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5. B. Guhathakurta, P. Basu, C. S. Purohit, N. Bandyopadhyay, G. S. Kumar, S. Chowdhury and J. P. Naskar Synthesis, characterization, structure, DNA binding aspects and molecular

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 12. J. P. Naskar, B. Guhathakurta, R. Bhattacharya, M. Zhu and L. Lu Crystal structure of N,N'-bis-thiophene-2-yl-methylene-propane-1,3-diamine J. Indian Chem. Soc. 95 (2018) 49-53 (A cover page article)
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 15. S. Ghosh, D. Singharoy, A. Dhara, J. P. Naskar and S. C. Bhattacharya Employing a synthesized pyrazole derivative for selectively visible detection of fluoride ion and its explanation by theoretical calculations J. Indian Chem. Soc. 95 (2018) 0000-0000

Prof. Kausikisankar Pramanik

1. Redox-active diaminoazobenzene complexes of rhodium(III): Synthesis, structure and spectroscopic characterization Sima Roy, Shuvam Pramanik, Tapas Ghorui, Soumitra Dinda, Sarat Chandra Patra and Kausikisankar Pramanik *New J. Chem.*, **2018**, 42, 5548-5555.
2. Ambient-Stable Bis-Azoaromatic-Centered Diradical [(L')M(L')] Complexes of Rh(III): Synthesis,

Structure, Redox, and Spin-Spin Interaction Sima Roy, Shuvam Pramanik, Sarat Chandra Patra, Basab Adhikari, Abhishake Mondal, Sanjib Ganguly, and Kausikisankar Pramanik *Inorg. Chem.*, **2017**, *56*, 12764-12774.

3. Luminescent Closed Shell Nickel(II) Pyridyl-azo-oximates and the Open Shell Anion Radical Congener: Molecular and Electronic Structure, Ligand Redox and Biological Activity Shuvam Pramanik, Suhana Dutta, Sima Roy, Soumitra Dinda, Tapas Ghorui, Arup Kumar Mitra, **Kausikisankar Pramanik** and Sanjib Ganguly *New J. Chem.*, **2017**, *41*, 4157-4164 .

Prof. Subrata Mukhopadhyay

1. Enhanced Photosensitive Schottky Diode Behavior of Pyrazine over 2 Aminopyrimidine Ligand in Copper(II)-Phthalate MOFs: Experimental and Theoretical Rationalization Anowar Hossain, Arka Dey, Saikat Kumar Seth, Partha Pratim Ray, Pablo Ballester, Robin G. Pritchard, Joaquín Ortega-Castro, Antonio Frontera, and Subrata Mukhopadhyay *ACS Omega*, 2018, *3*, 9160 – 9171.
2. Terpyridine derivatives as “turn-on” fluorescence chemosensors for the selective and sensitive detection of Zn²⁺ ions in solution and in live cells Tripti Mandal, Anowar Hossain, Anamika Dhara, Abdulla Al Masum, Saugata Konar, Saikat Kumar Manna, Saikat Kumar Seth, Sudipta Pathak and Subrata Mukhopadhyay *Photochem. Photobiol. Sci.* 2018, *17*, 1068 – 1074.
3. Two Zinc(II)-Based Metal Complexes of New Pyrimidine Derived 2 Ligand: Anion-Dependent Structural Variations and Charge Transport Property Analysis Saugata Konar, Arka Dey, Somnath Ray Choudhury, Kinsuk Das, Sudipta Chatterjee, Partha Pratim Ray, Joaquín Ortega-Castro, Antonio Frontera, and Subrata Mukhopadhyay *J. Phys. Chem. C*, 2018, *122*, 8724 – 8734.
4. Potential amelioration of nicotine-induced toxicity by nanocurcumin Krishna Chattopadhyay, Anwesha Samanta, Subrata Mukhopadhyay and Brajadulal Chattopadhyay *Drug Dev. Res.*, 2018, *79*, 119 – 128.
5. Coordination Polymers Based on Phthalic acid and Aminopyrazine Ligands: On the importance of N–H··· π Interactions Anowar Hossain, Saikat K. Seth, Antonio Bauzá, Subrata Mukhopadhyay and Antonio Frontera, *Polymers*, 2018, *10*, 182 – 195.
6. Exploring 3D non-interpenetrated metal–organic framework with malonate-bridged Co(II) coordination polymer: structural elucidation and theoretical study Anowar Hossain, Tripti Mandal, Monojit Mitra, Prankrishna Manna, Antonio Bauza, Antonio Frontera, Saikat Kumar Seth and Subrata Mukhopadhyay *Phase Transitions*, 2017, *90*, 1193 – 1204.
7. Penicillamine and captopril: mechanistic exploration of defensive actions of thiol drugs against a metal bound-superoxo complex Arabinda Mandal, Ranendu Sekhar Das, Bula Singh, Rupendranath Banerjee and Subrata Mukhopadhyay *J. Coord. Chem.*, 2017, *70*, 1723 – 1738.

8. Melamine mediated self-assembly of Cu(II)–methylmalonate complex assisted by $\pi^+ - \pi^+$ and anti-electrostatic H-bonding interactions

Monojit Mitra, Anowar Hossain, Prankrishna Manna, Somnath Ray Choudhury, Surasak Kaenket, Madeleine Helliwell, Antonio Bauzá, Antonio Frontera and Subrata Mukhopadhyay
J. Coord. Chem., 2017, 70, 463 – 474.

5. Collaborative Programmes:

Prof. Rina Ghosh

Collaborating with faculties from University of Calcutta, Physiology Dept. and 2 North-eastern universities under a Twin project.

Prof. Chittaranjan Sinha

- (a) Dr. Partha Pratim Ray, Department of Physics, Jadavpur University : Photoconductivity measurements of materials.
- (b) Dr. Mohammad Hedayetullah Mir, Department of Chemistry, Aliah University : Metal Organic Framework studies
- (c) Prof. Elena López-Torres, Universidad Autónoma de Madrid, C/ Francisco Tomás y Valiente 7, 28049, Madrid, Spain : Single Crystal X-Ray diffraction measurements
- (d) Prof. Debprasad Chattopadhyay, NICED, Kolkata : Exploration of biomedical activity of the products.
- (e) Dr. Krishna Das Saha, IICB, Kolkata, Cellbiology studies.
- (f) Dr. Suvroma Gupta, Department of Biotechnology, Haldia Institute of Technology : Microbiological studies.
- (g) Prof. E. Garribba, Università di Sassari, Via Vienna 2, I-07100 Sassari, Italy : Anticancer activity of the complexes
- (h) Prof. Takasiro Akitsu, Tokyo Institute of Science, Japan : Magnetic measurements

Dr. Amrita Saha

Dr. Antonio Frontera, Departament de Química, Universitat de les Illes Balears, Crta. De Valldemossa km 7.5, 07122 Palma (Balears), Spain. E-mail: toni.frontera@uib.es

Dr. Partha Roy

Scientific Collaboration with

- (i) Dr. Partha Pratim Ray, Dept. of Physics, Jadavpur University
- (ii) Dr. Corrado Rizzoli, b Università' degli Studi di Parma, Dipartimento S.C.V.S.A., Parco Area delle Scienze 17/A, I-43124 Parma, Ital
- (iii) Dr. Antonio Frontera, Departament de Química, Universitat de les Illes Balears, Crta. de Valldemossa km 7.5, 07122 Palma de Mallorca, Balears, Spain

Prof. Samaresh Bhattacharya

Have been doing collaborative work with Prof. Parimal Karmakar (Department of Life Science and Biotechnology, JU) and Prof. Michael G. Richmond of University of North Texas, USA.

6. Major Achievements:

Prof. Nitin Chattopadhyay

Elected as the Fellow of The National Academy of Sciences, India (FNASc).

Prof. Chittaranjan Sinha

Last year we received good number of research publications in high impact international journals. Three students awarded Ph. D. degree in this academic year. We have ventured in the newer field of chemical research such as Metal Organic Framework; exploration of semiconducting properties of metal complexes, drug exploration etc.. Drug design chemistry has taken new impetus by using molecular docking technology. Anticancer activity of the complexes particularly of Platinum(II) complexes inspires us to concentrate in this field in near future. Sensor design and ion detection process has improved a lot and the detection protocol becomes more sensitive and selective to nM range of concentration and identification of highly toxic ions such as Cd^{2+} , Al^{3+} , F^- , PO_4^{3-} , AsO_3^{3-} etc. is one of our highly productive branch of research. Our researchers participated in National and International conferences and also achieved prizes in Poster and Oral competitions. Students from our lab received NPDF, PDF (Abroad) and also service in SSC and CSC. Students visited our lab from many local institutes like R K M Narendrapur, R K M V. C. College, Belur Vidyamandir, IIT-ISM, IIT-Kanpur, Behala College, St. Xeviers College, Scottish Churge College, Loyla College, Chennai.

Prof. Subratanath Koner

1. JSPS Invitational Fellowship Award, visited Kyoto University, Japan, (March 5-April 20, 2018)

Dr. Samit Guha

DST-SERB Early Carrier Award, Government of India, 2018

GEOGRAPHY

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H.O.D. : Prof. Lakshmi Sivaramakrishnan

E-mail : hod.geography@jadavpuruniversity.in,

The Department of Geography under the Faculty of Science is offering under graduate degree in Geography. The first session of students were admitted in 2015-16 sessions. This has been a long standing vision of the Faculty of Science which has ultimately become fruitful. The Department has a vision to make it one of the best departments in West Bengal for which several plans and programmes are being chalked out like preparations of the most updated syllabus in Geography under the science faculty and students will be offered science subsidiary subjects allied to Geography. The Department also plans to develop a state of art Remote Sensing and GIS laboratory for the students so that they can have access to the most updated knowledge of this branch of Geography which is emerging as a potential area of recruitment. The Department has started the Post Graduate degree course in Geography from the academic year 2018-19. Future plans also include offering of a diploma course in Remote Sensing and GIS. The Department is hosted in the third and fourth floor of the Megnad Saha Bhavan (Integrated Science Building).

Profile of the Department

1. A. Courses Offered:

Name of the Course	Duration of the Course	No. of Students
1. B.Sc in Geography	03 Years	20 (In each year)
2. M.Sc in Geography	02 Years	20
3. PhD in Geography		15

B. Number of Faculty Members:

Professor - 01
Assistant Professor -01

2. A. Area of Research Activities

Dr. Lakshmi Sivaramakrishnan:

Urban and Regional Planning, Rural development, Environmental Assessments, Gender Issues, Urbanization and related aspects

Dr. Debajit Datta:

Natural Resource Management, Political Ecology, Urbanization and Rural Change, Sustainable Tourism

B. Major Research Project

Debajit Datta

1. Research project titled '*Assessment of Ecological Sustainability of Urban and Peri-Urban Agriculture in Kolkata Metropolitan Area*' as Principal Investigator amounting Rs. 10,00000/- funded as Start-up Research Grant under UGC-BSR Faculty Research Promotion Scheme since March, 2017

C. Minor Research Project

Debajit Datta

1. Research project titled '*Delineation of Urban and Peri-Urban Agricultural Areas in Kolkata Metropolitan Area Based on Crop Type and Crop Health*' as Principal Investigator amounting Rs. 50,000/- funded by Jadavpur University Research Grant since December, 2016

3. A. Invited Lectures Delivered/ Session Chaired:

Lakshmi Sivaramakrishnan

1. Delivered an invited Lecture on Human Geography Today and Tomorrow at national seminar cum workshop on "contemporary human geography in Indian context" and "Syllabus restructuring of papers related to human geography" (22nd to 24th September, 2017) at department of Geography, Savitribai Phule Pune University, Pune
2. Delivered a lecture at the Winter School in Environmental Science and Earth Sciences, 10th February 2018, HRDC, The University of Burdwan
3. Delivered two lectures at the Research Methodology Course, Department of Geography, The University of Burdwan on 8th March 2018

B. Seminar/ Workshop/Conference/Symposium Attended:

Lakshmi Sivaramakrishnan

Name of the Paper Presented/Name of Seminar/ Conference/Place/Duration

Gender Differentials in the Health Conditions of the Aged Residing in Different Old Age Homes of Kolkata (As a co-author with A. Roy Bardhan), 39th Annual Meet and Conference of Indian Institute of Geographers (IIG) on Population, Environment and Sustainable Development, during Ravenshaw University, Cuttack December 26-28, 2017.

Mapping and Monitoring Land Cover and Land-Use Changes In The Southern Fringes Of Kolkata Metropolitan Area (As a co-author with S. Mazumder), 39th Annual Meet and Conference of Indian Institute of Geographers (IIG) on Population, Environment and Sustainable Development, during Ravenshaw University, Cuttack. December 26-28, 2017.

Debajit Datta

Name of the Paper Presented /Name of Seminar/ Conference/Place/Duration

Analyzing Spatial Transformations in Urban and Peri-Urban Agriculture of Kolkata Metropolitan Area(As a co-author with S Mazumder) 4th International Seminar on 'Population, Urbanization and Environment: Contemporary Issues and Challenges' Gour Banga University, West Bengal, 21-22 March, 2018

Stakeholder based collaborative planning towards sustainable wetland management in Ichamati floodplains of West Bengal, India NTNU Sustainability Science Conference, 2017 Norwegian University of Science and Technology at Trondheim, Norway 18 October, 2017

Evaluating agro ecosystem sustainability of interdunal wetlands of littoral West Bengal, India(As a co-author with AK Roy), NTNU Sustainability Science Conference, 2017 Norwegian University of Science and Technology at Trondheim, Norway, 18 October, 2017

Ethnic Identity, Electoral Democracy and Separatism: Deconstructing Politics of Marginalization of North-east India (As a co-author with C Sengupta), NTNU Sustainability Science Conference, 2017, Norwegian University of Science and Technology at Trondheim, Norway, 19 October, 2017

C. Seminar/ Workshop/Conferences/Symposium Organized

Lakshmi Sivaramakrishnan and Debajit Datta

1. One-day Lecture on **Rethinking Flood Management in India** held on 30.10.2017

Speaker: Dr. Kalyan Rudra

Chairman

West Bengal Pollution Control Board

Department of Environment

Government of West Bengal

2. One day Lecture on **Rapid Urbanisation and Urban Hazards and Disasters in India** held on 23.2.2018

Speaker: Prof. Anuradha Banerjee

Centre for the Study of Regional Development (CSRSD)

School of Social Sciences (SSS)

Jawaharlal Nehru University-110067

3. One day Lecture on **Geo-Spatial Technology: Its Concept and Application** held on 16.3.18
Speaker: Dr. Deb Prakash Pahari
Scientific Officer
Department of Geography
The University of Burdwan
4. One day Lecture on Becoming an Urban Planning Professional: Prospects for Geography Post Graduates held on 24.3.18
Speaker: Mrs. Somdutta Dey
Assistant Manager,
Infrastructure Services Jones Lang LaSalle (JLL) India

4. A. Books/ Monographs etc. Published:

B. Articles Published in Journals

Lakshmi Sivaramakrishnan

1. Demographic Dynamics with Changing Land Price in the southern part of Kolkata Metropolitan Area: A Case study of Rajpur - Sonarpur Municipality, Hill Geographer Vol. XXXIV No.1 2018 (Co author: S.Mazumder)

Debajit Datta

1. Forest structure and soil properties of mangrove ecosystems under different management scenarios: Experiences from the intensely humanized landscape of Indian Sunderban. Ocean and Coastal Management 140(2017):22-33 (Elsevier, Impact Factor: 1.696) (Coauthor: S Deb)
2. Assessment of mangrove management alternatives in village-fringe forests of Indian Sundarbans: resilient initiatives or short-term nature exploitations? Wetland Ecology and Management (2018) 26(3):399-413 (Springer, Impact Factor: 1.508)
3. An alternative approach for estimating above ground biomass using Resourcesat-2 satellite data and artificial neural network in Bundelkhand region of India. Environmental Monitoring and Assessment (2017) 189(11):576-588 (Coauthor: D Deb, JP Singh, S Deb, Ghosh A, Chaurasia RS) (Springer, Impact Factor: 1.687)

GEOLOGICAL SCIENCES

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1. A. Courses Offered

Name of the Course	Duration of Course	No Of students Enrolled
1. B.Sc. in Geological Sciences	3 Years	132
2. M.Sc in Applied Geology	2 Years	71
3. Ph.D		44
1. B. Number of Faculty Members Total -		17
Professor –		10
Assistant Professor –		7

1.C. Faculty Members and their Broad Area of Research Activities

Dr. Anupam Ghosh	Micropalontology
Dr. Babar Ali Shah	Sedimentology, Hydrogeology & Environmental geochemistry
Prof. Dipak C Pal	Ore geology & Geochemistry
Prof. Nibir Mandal	Structural geology, Tectonics and Solid Earth Geophysics, Geo Fluid Dynamics, Computational Mineral Physics
Prof. Pulak Sengupta	Earth Sciences
Dr. Sadhana M Chatterjee	Metamorphic Petrology & Structural Geology
Prof. Sanjoy Sanyal	Earth Sciences
Prof. Sisir Kanti Mondal	Igneous Petrology, Geochemistry, Ore Geology of maficultramafic rocks
Dr. Soumik Mukhopadhyay	Sedimentology and Sequence stratigraphy
Prof. Subir Mukherjee	Ore geology and Micropalontology
Prof. Subir Sarkar	Sedimentology
Prof. Subrata Karmakar	Earth Sciences
Dr. Sunipa Mondal	Sedimentology with Sequence Stratigraphy and geochemistry, Geomorphology
Prof. Supriya Mondal	Palaeomagnetism, Rock Magnetism and Environmental Magnetism
Dr. Susanta Chaudhuri	Engineering Geology related to hydrology, fluvial hydraulics, sediment erosion and transport at the vicinity to hydraulic structures
Prof. Susanta Kumar Samanta	Structural Geology, Tectonics, Engineering Geology
Dr. Tridib Kumar Mondal	Structural Geology and Tectonics

2. A. Major Ongoing Research Programmes in the Department are:

Sr. No.	Research Programme	Sanctioned Grant (<i>in Lacks of Rupees</i>)
1.	DST. FIST	210
2.	CAS (Phase VI)	131
3.	DST (Purse - II)	29
4.	UPE II(Energy, Environment and Climate Change	03

3. B. Major Research Project (Stared / Ongoing)

Title of the Project/Sponsoring Agency/Project worth (in Rs.)/Faculty Members and their role

Anupam Ghosh (Member)

Teleconnections of the Late Quaternary Paleoclimatic events between Sub-Polar North Atlantic and Southern Indian Ocean, DST- Russian Science Foundation 65,00,000.00

Dipak C Pal (PI); Soumik Mukhopadhyay (CO-PI)

Petromineralogical, Sedimentological and Geochemical studies of Quartz Pebble Conglomerate and associated rocks in parts of Birtola-Bagiyabahal area, Sundergarh District, Orissa, eastern India, DAE-BRNS. 32,19,000.00

Nibir Mandal (PI)

Physical behavior of Natural Silicates and oxides, and its implication in environmental studies: a computational approach, DAE-BRNS. 40,19,700 /-

Sadhana M. Chatterjee (PI)

Study of emplacement and evolution of granitic rocks in transpressional ductile shear zone from parts of the western margin of Delhi Fold Belt, Rajasthan, DST (SERB). 26,00,000.00

Sanjoy Sanyal (PI); Pulak Sengupta (CO-PI)

Physicochemical and deformational control of Rare Earth and Rare Metal (REE-RM) mineralization in parts of South and North Purulia Shear Zone (SPSZ and NPSZ), East Indian shield, DAE-BRNS. 54,82,000.00

Subir Sarkar (PI); Soumik Mukhopadhyay (CO-PI)

Basin evolutionary history and microbial mat proliferation versus Uranium Mineralization in Badami Group, Karnataka, DAE-BRNS. 38,88,900.00

Subir Sarkar (PI)

Evolution of land and sea interface during the lower Cretaceous global warming: Bhuj Formation, Kutch, CSIR. 20,00,000.00

Supriya Mondal (PI)

Magnetic Anisotropy and Palaeomagnetic Studies in Relation to the Tectonic Evolution of the Chotanagpur Gneissic Complexes of Eastern India DST-PURSE. 9,90,000.00

Susanta Chaudhuri (PI)

Study on Local Scour around Bridge Pier within Silt – an Experimental Approach' UGC 6,00,000.00

Susanta Samanta (PI); Ranjit Kumar Majumdar (CO-PI)

Slope stability analysis of major landslide prone areas in Kurseong and its adjoining areas of Darjeeling Himalayas, West Bengal, CSIR. 25,00,000.00

Ranjit Kumar Majumdar (PI); Susanta Samanta (CO-PI)

Geoelectric and geochemical studies for hydrological characterization of North 24 Parganas district and adjoining areas, West Bengal, India, DST 23,50,000.00

Tridib Kumar Mondal (P.I.)

Fabric analysis and tectonic stress determination in the rocks of Chitradurga region (Dharwar craton, south India) – implications for upper crustal fluid flow, DST (SERB) 10,68,000.00

3. A. Invited Lectures Delivered/Sessions Chaired/Keynote Speeches

Anupam Ghosh

1. Invited talk on “Application of Scanning Electron Microscope in Microfossil Study” in the GeoCon 2017 (Scanning Electron Microscope Applications to Geosciences) held at Department of Geology, Calcutta University
2. Invited talk on “Career opportunities for graduate and post graduate students (Science/Arts/Commerce)” and “A world of microfossils in marine oceanic sediments” in Career Counselling Programme 2018 held at the Department of Geology, Hooghly Mohsin College

Nibir Mandal

1. Invited Talk on “Earthquakes and its precursor”, Alumni Association, Jadavpur University, 2017
2. Invited talk on “Indian Structural Geology – the need of a new road map”, Calcutta University, 2017
3. Invited Talk on “Rayleigh Taylor instabilities – a driving mechanism”, in Earth system, IIT-Kharagpur, 2018
4. Invited talk on “Unquiet Earth”, Jadavpur University Faculty of Science, 2018

Pulak Sengupta

1. Invited lectures given at the Department of Geology, Banaras Hindu University, November, 2017
2. Plenary lecture given at the annual conference of Electron Microscopy Society of India, at Chennai, October, 2017

Subir Sarkar

1. Delivered invited lectures in the Association of Petroleum Geologists (APG), Duliajan Chapter, 9th September 2017 at Oil India Limited Field Headquarters at Duliajan, Assam.

3. B. Seminar/Workshop/Conference/Symposium/Training Course Attended

1. **Sadhana M Chatterjee** presented poster at the GSA Annual Meeting in Seattle, Washington, USA – 2017, 22nd to 25th October 2017
2. **Sunipa Mandal** delivered a talk in the 9th IAG International conference of Geomorphology, 6th to 11th November, 2017. Delhi.
3. **Susanta Chaudhuri** attended the 2nd Regional Science & Technology Congress, South Zone organized by the Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal, during 14th & 15th December 2017 at Kalyani University, WB.
4. **Susanta Chaudhuri** attended the 25th West Bengal State Science & Technology Congress, organized by Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal during 4th & 5th March 2018 at Science City, Kolkata.

3. C. Seminar/Workshop/Conference/Symposium/Training Course Organized

1. **Anupam Ghosh, Sunipa Mandal and Soumik Mukhopadhyay** jointly convened the Geo-Symposium 2018 at the Department of Geological Sciences, Jadavpur University on 23rd March, 2018 under the aegis of Center of advanced studies (CAS Phase VI) of the Department of Geological Sciences, JU
2. **Anupam Ghosh** organized three seminars under the aegis of American Association of Petroleum Geologist and Society of Exploration Geophysicist-Jadavpur University Students' chapter. Lectures were delivered by distinguished researchers like Dr. Rahul Mohan, Prof. Sankar Chatterjee, Shri Rupdip Guha and Smt. Arpita Mandal

3. D. Orientation Courses/ Refresher Courses Attended

Soumik Mukhopadhyay attended refresher course on “Modern and Ancient Environment and Ecology: Sediments and Biota” held during 4th to 24th December at the Department of Geological Sciences, Jadavpur University.

3. E. Orientation Courses/Refresher Courses Organized

Pulak Sengupta and Subir Sarkar jointly coordinated a 21-day refresher course and field trip on *Modern and Ancient Environment and Ecology: Sediments and Biota* from 4 December 2017 to 24 December 2017. This program was sponsored by Indian Academy of Science, Bangalore.

4. A. Books/Book chapters/Monographs/Special volumes etc. published

1. Barman SD, Islam A, Das BC, **Mandal S**, Pal SC 2018 Imprints of Neo-tectonism in the Evolutionary Record Along the Course of Khari River in Damodar Fan Delta of Lower Ganga Basin. *Quarterly Geomorphology in India*. Springer Cham, ISBN: 978-3-319-90426-9, pp.105-126.
2. Chakraborty N, **Sarkar S**, Mandal A, Mejiama W, Tawfik HA, Nagendra, Bose PK, Eriksson PG 2017 Physico-Chemical Characteristics of the Barremian-Aptian Siliciclastic Rocks in the Pondicherry Embryonic Rift Sub-basin. In: Mazumder, R., (Ed.) *India Sediment Provenance: Influence on Compositional Change From Source to Sink*, Chapter 6, 85-121.
3. Das E, Karmakar S, Dey A, **Karmakar S, Sengupta P** 2017 Reaction textures, P-T paths and chemical dates of monazite from a new suite of sapphirine-spinel granulites from parts of the Eastern Ghats Province, India: Insight about final amalgamation of India and east Antarctica during the formation of Rodinia. In: Dasgupta, Somnath (Ed.) *Crustal Evolution of India and Antarctica: The Supercontinent Connection*. The Geological Society of London, Special Publications, v.457, pp. 141-170.
4. Mamtani, MA, Bhatt S, Rana V, Sen K, **Mondal TK** 2018 Application of AMS in understanding regional deformation fabric development and granite emplacement: examples from Indian cratons. In: Dey, S. and Moyon, J-F (eds.) *Archean Granitoids of India: Windows into Early Earth Tectonics*. Geological Society of London Special Publications (in-press)
5. **Mukhopadhyay S**, Samanta P, Bhattacharya S, **Sarkar S** 2017 Stratigraphic Evolution and Architecture of the Terrestrial succession at the base of the Neoproterozoic Badami Group, Karnataka, India. In: M.E.A. Mondal (Ed.), *Geological Evolution of Precambrian Indian Shield*” Society for Earth Scientists Series, Springer, 121-157.
6. **Mukhopadhyay S**, Choudhuri A, Chakraborty N, **Sarkar S** 2017. Aseismic tectonism-induced

soft-sediment deformation in a tranquil palaeogeography: Chikkshelikere Limestone Member, Proterozoic Kaladgi Basin, southern India. In: M.E.A. Mondal (Ed.), Geological Evolution of Precambrian Indian Shield” Society for Earth Scientists Series, Springer, 351-372.

7. Samanta P, **Mukhopadhyay S, Mandal S, Sarkar S** 2017 Controls on cyclic sedimentation within the Neoproterozoic Sirbu Shale, Vindhyan Basin, central India. In: M.E.A. Mondal (Ed.), Geological Evolution of Precambrian Indian Shield” Society for Earth Scientists Series, Springer, 271-295.

8. **Sarkar S, Bardhan S**, Bose PK 2017 A field guide on Sedimentological and Biological Dynamism: A Case Study from Modern Chandipur Coast, Orissa. Page.54 (ISBN 978-93-84106-90-4) published by Levant Books, printed by Sarat Impression Private Ltd. Kolkata

4. B. Articles Published in Refereed Journals

1. Acharyya SK, Ghosh S, **Mandal N**, Bose S, Pande K 2017 Pre-Himalayan tectono-magmatic imprints in the Darjeeling-Sikkim Himalaya (DSH) constrained by $^{40}\text{Ar}/^{39}\text{Ar}$ dating of muscovite. *Journal of Asian Earth Sciences*, 146, 211-220.
2. Baidya AS, Sen A, **Pal DC** (2018): Textures and compositions of cobalt pentlandite and cobaltian mackinawite from the Madan-Kudan copper deposit, Khetri Copper Belt, Rajasthan, India. *Journal of Earth System Science* (2018)127:56
3. Chakraborty N, Mandal A, **Sarkar S, Mandal S**, Bumby A 2018 Microenvironmental Constraint on $\delta^{13}\text{C}$ Depletion: Garudamangalam Sandstone, Cauvery Basin, India. *Marine and Petroleum Geology*, 91,776–784.
4. Chakraborty N, **Sarkar S** 2018 Syn-sedimentary tectonics and facies analysis in a rift setting: Cretaceous Dalmiapuram Formation, Cauvery Basin, SE India. *Journal of Paleogeography*, 7(2): 146-167.
5. Chakraborty N, Mandal A, Choudhuri A, **Mandal S, Sarkar S** 2018 Indigenous siliciclastic and extraneous polygenetic carbonate facies in the Albian-Turonian Karai shale facies, Cauvery basin, India, *Carbonate and Evaporites* , 33:561–576.
6. **Chatterjee SM**, Roy Choudhury M, Das S, Roy A (2017) Significance and dynamics of the Neoproterozoic (810 Ma) Phulad Shear Zone, Rajasthan, NW India. *Tectonics*, 36, 1432-1454. doi: 10.1002/2017TC004554
7. Chatterjee S, **Mondal S**, Paul P, Das P 2018 Palaeocurrent and environmental implications from Anisotropy of Magnetic Susceptibility (AMS): a case study from Talchir and Barakar formations, Raniganj Basin, West Bengal, India. *Arabian Journal of Geosciences*, (2018), 11:288, (<https://doi.org/10.1007/s12517-018-3644-x>).
8. Chatterjee S, **Mondal S**, Gain D, Baidya TK, Majumdar, D. 2018 Interpretation of Magnetic fabrics in the Dalma Volcanic Rocks and associated metasediments of Singhbhum Mobile belt. *Journal of Earth System Science*, V. 127, Issue 6, id. 89.
9. Chatterjee S, **Mondal S**, Roy B, Gain, D 2017 Magnetic Fabric as a Tool to determine Kinematic Vorticity Number of the High Grade Rocks from Chilka Lake Area, Eastern Ghats Belts, India. *International Journal of Recent Scientific Research*, V. 8, Issue-6, pp. 17845-17850
10. Chatterjee S, **Mondal S**, Roy P, Gain D, Bhattacharya A 2018 Magneto-mineralogy characterization and manifestations of magnetic fabrics from the gneissic rocks and associated intrusive bodies in and around Bankura and Purulia Districts, West Bengal, India. *Current Science*, V. 114, No. 9, pp. 1894-1902.

11. **Chaudhuri S**, Singh S, Debnath K, Manik MK 2017 Pier scour within long contraction in cohesive sediment bed. *Environmental Fluid Mechanics*, (Springer), vol. 18(2),pp 417-441.
12. Dasgupta R, **Mandal N** 2018 Surface topography of the overriding plates in bi-vergent subduction systems: a mechanical model. *Tectonophysics* (in press).
13. Das S, Dasgupta N, **Sanyal S**, Sengupta S, **Karmakar S**, **Sengupta P** 2017 Dolomitic carbonatite from the Chotanagpur Granite Gneiss Complex: A new DARC (Deformed Alkaline Rocks and Carbonatite) in the Precambrian shield of India. *Curr. Sci.* 113, 1038-1040.
14. Das PK, **Mandal N**, Arya A 2017 Effects of Fe substitution on B3-B1 phase transition and structural, vibrational, and electronic properties of ZnS from DFT calculations, *Journal of Applied Physics*, 121, 085101(1-8).
15. Das PK, **Mandal N**, Arya A, 2017 Effects of cation ordering on the elastic and electronic properties of Mg-Fe silicate phases at high pressures. *Journal of Applied Physics*, 122, 225107.
16. Das S, **Mondal S**, Buragohain D, Dasgupta U 2017 Magnetic Susceptibility of Road Dust from Kolkata- In relationship to Road Traffic. *International Journal of Applied and Natural Sciences*, V. 6, Issue 5, pp. 65-78
17. Ghosh S, Bose S, **Mandal N**, Das A, 2018 Control on frontal thrust progression by the mechanically weak Gondwana horizon in the Darjeeling-Sikkim Himalaya. *Tectonophysics*, 727, 12-27.
18. **Karmakar S**, Mukherjee S, **Sanyal S**, **Sengupta P** 2017 Origin of peraluminous minerals (corundum, spinel, and sapphirine) in a highly calcic anorthosite from the Sittampundi Layered Complex, Tamil Nadu, India. *Contributions to Mineralogy and Petrology*, 172, 1–23. <http://doi.org/10.1007/s00410-017-1383-8>
19. Kumar P, Saraswati PK, Banerjee S, **Ghosh A** 2017 Stratigraphic Analysis of a shallow marine, mixed carbonate-siliciclastic system. *Geological Society of India special*
20. **Mandal N**, Sarkar S, Baruah A, Dutta U 2018. Production, pathways and budgets of melts in mid-ocean ridges: an enthalpy based thermo-mechanical model. *Physics of the Earth and Planetary Interiors*, 10.1016/j.pepi.2018.01.008.
21. Marques FO, Ranalli G, **Mandal N** 2018 Tectonic overpressure at shallow depth in the lithosphere: The effects of boundary conditions. *Tectonophysics* (in press)
22. Marques FO, **Mandal N**, Ghosh S, Ranalli G, Bose S 2018 Channel flow, tectonic overpressure, and exhumation of high-pressure rocks in the Greater Himalayas. *Solid Earth Discussions* (in press) publication.
23. Mitra S, Roy S, **Chaudhuri S**, Mukhopadhyay BP 2017 A multi- criteria based methodology for mapping of landslide risk zones for urban planning guidelines: a case study Darjeeling town, eastern Himalayas, India. *Urban India – A journal of the National Institute of Urban Affairs.*, vol.36 (2), pp76-101.
24. **Mondal S**, Mazumdar D, Chatterjee S, Gain D, Shil R 2017 Nature of flow patterns of Rajahmundry lava, Gowripatnam Area, West Godavari, India: Insights from AMS studies. *Current Science*, V. 113, No. 9, pp.1719-1728.
25. **Mondal S**, Chatterjee S, Maity R, Gain D, Das A, Sinha S 2017 Magnetic Susceptibility as a Proxy for Pollution in Tribeni-Bandel Area, Hooghly District, West Bengal, India. *Current Science*, V. 112, No. 11, pp-1-7.

26. **Mondal TK** 2018. Evolution of fabric in Chitradurga granite (south India) - A study based on microstructure, anisotropy of magnetic susceptibility (AMS) and vorticity analysis. *Tectonophysics* 723, 149-161.
27. Mukherjee S, Dey A, Ibanez-Mejia M, **Sanyal S, Sengupta P** 2018 Geochemistry, U-Pb geochronology and Lu-Hf isotope systematics of a suite of ferroan (A-type) granitoids from the CGGC: Evidence for Mesoproterozoic crustal extension in the east Indian shield. *Precambrian Research* 305:40–63. doi: <https://doi.org/10.1016/j.precamres.2017.11.018>
28. Mukherjee S, Dey A, **Sanyal S**, Ibanez-Mejia M, Dutta U, **Sengupta P** 2017 Petrology and U–Pb geochronology of zircon in a suite of charnockitic gneisses from parts of the Chotanagpur Granite Gneiss Complex (CGGC): evidence for the reworking of a Mesoproterozoic basement during the formation of the Rodinia supercontinent. *Geological Society, London, Special Publications*, SP457, 197–232. <http://doi.org/10.1144/SP457.6>
29. Mukherjee S, Dey A, **Sanyal S, Sengupta P** 2018 Proterozoic Crustal Evolution of the Chotanagpur Granite Gneissic Complex, Jharkhand-Bihar-West Bengal, India: Current Status and Future Prospect. In: *Tectonics & Structural Geology: Indian Context*. In Press.
30. Ozha MK, **Pal DC**, Mishra B, Desapati T, Shaji TS 2017 Geochemistry and chemical dating of uraninite in the Samarkiya area, central Rajasthan, northwestern India-implication for geochemical and temporal evolution of uranium mineralization. *Ore Geology Reviews*. Vol. 88 p. 23-42
31. Ray D, Banerjee R, Mazumder A, Paropkari AL, **Mukhopadhyay S**, Balkrishnan S 2018 Mineralogical and geochemical variation in hydrothermal sulfides from Vienna Woods field, Manus Basin, Papua New Guinea: constraints on their evolution. *Acta Oceanol. Sin.*, Vol. 37, No. 3, 1–12.
32. Saif M, Siddiquie FN, **Mukhopadhyay S** 2017, Petrographic characteristics of Manganese bearing rocks of Banswara Manganese Ores Belt , District Banswara, Rajasthan (India). *Open Journal of Geology (OJG)*; [ID: 1210918].
33. **Sarkar S**, Chaudhuri A, Mandal S, Bose PK 2018 Flat pebbles and their edge-wise fabric in relation to 2D microbial mat. *Geological Journal* (in press)
34. Sensarma S, Banerjee R, Satyanarayanan M, **Mukhopadhyay S** 2017 Depositional environment of the surface sediments in Central Indian Basin (CIB), Indian Ocean, between 8^o-18^oS latitude and 72^o-79^oE longitude, based on their geochemical characteristics. *Geological Journal*. (Ms ID GJ-17-0007.RI, 1-18.
35. Sahoo D, Pruseth K, Upadhyay D, Ranjan S, **Pal DC**, Banerjee R, Gupta S (2018) New constraints from zircon, monazite and uraninite dating on the commencement of sedimentation in the Cuddapah Basin, India. *Geological Magazine*. p. 1-27. doi: 10.1017/S0016756817000140
36. Talukdar M, **Sanyal S, Sengupta P** 2017 Metasomatic alteration of chromite from parts of the Late Archaean Sittampundi Layered Magmatic Complex (SLC), Tamil Nadu, India. *Ore Geology Reviews*. 90:148-165.

5. Abstracts in Seminar/Conference/Symposium

1. Buragohain D, Bhattacharya, K, **Ghosh A** 2017 A study of Recent Benthic Foraminifera Along the Saurashtra Coast, western India, XXVI Indian Colloquium on Micropaleontology

- and Stratigraphy, University of Madras, p.38-39
2. Chatterjee D, **Ghosh A**, Alexanderson H, Henriksen M, Landvik JV, Ryen, HT 2017 Benthic foraminiferal records of the Late Pleistocene deposits of (Northwestern) Spitsbergen, Svalbard, Geo Con 2017, University of Calcutta, p.9-10
 3. **Chatterjee SM**, Roy Choudhury M, Das S, Roy A. 2017 Phulad Shear Zone, Rajasthan, NW India: the proposed Mid-Neoproterozoic suture for the Greater India landmass; Significance and dynamics of the Neoproterozoic (810 Ma) Phulad Shear Zone, Rajasthan, NW India. GSA Annual Meeting in Seattle, Washington, USA – 2017, 22nd to 25th October 2017
 4. Dasgupta R, **Mandal N** 2017, Development of surface topography in bi-vergent subduction systems: Implications of in-dip slab interaction, 54th Annual Convention of Indian Geophysical Union, NGRI, Hyderabad, India.
 5. Dasgupta R, Lee C, **Mandal N** 2018 Role of subducting slab dip and mantle wedge rheology on the development of back-arc topography. Spring Symposium of Petrological Society of Korea.
 6. Dasgupta R, Lee C, **Mandal N** 2018. Influence of subducting slab age and dip on the development of fore-arc basin. International Conference on Mathematical Modeling and Scientific Computing, IIT-Indore, India.
 7. Dasgupta U, Barbieri G, Vaiani SC, **Ghosh, A** 2017 Paleoenvironmental reconstruction of a Late Quaternary succession from the Po river delta (Northern Italy): Benthic Foraminifera as a proxy for Deltaic evolution, XXVI Indian Colloquium on Micropaleontology and Stratigraphy, University of Madras, p.100-101
 8. Das I, Buragohain D, **Ghosh A**, 2017 A study of microhabitat of intertidal foraminifera from Chandipur Coast, Odisha, XXVI Indian Colloquium on Micropaleontology and Stratigraphy, University of Madras, p.40-41
 9. Das I, Das M., Bag G, **Ghosh A**. 2017 A study on intertidal foraminifera from the coastal region of Chandipur, India, 2nd National Geo-Research Scholars Meet, Wadia Institute of Himalayan Geology, Dehradun, p.58.
 10. Das VK, Banerjee R, **Chaudhuri S**, Debnath K. 2017 Study on Bridge Pier Scour and Downstream Siltation- An Experimental Approach. 2nd Regional Science & Technology Congress, South Zone, Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal, 14th & 15th December 2017, abstract vol. pp. 109.
 11. Das VK, **Chaudhuri S**, Debnath K 2017 Study on Bridge Pier Scour and Downstream Siltation- An Experimental Approach. 25th West Bengal State Science & Technology Congress, Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal, 4th & 5th March 2018, abstract vol. pp. 51.
 12. Das S, Das I, Ghosh S, **Ghosh A** 2017 The Study of Marsh Foraminifera of Sagar Island, (S) 24 Parganas, W.B. using Scanning Electron Microscopic (SEM), p.43-45
 13. **Ghosh A**, Biswas S, Das I 2017 A new approach to study the agglutinated foraminifera using Scanning Electron Microscopy- Energy Dispersive Spectroscopy (SEM-EDS), Geo Con 2017, University of Calcutta, p.7-8

14. Ghosh S, Buragohain D, **Ghosh A**, Chaudhuri S **2017** A study of benthic foraminiferal assemblages along the coastal tracts of Chandipur, east coast of India, XXVI Indian Colloquium on Micropaleontology and Stratigraphy, University of Madras, p.61
15. **Mandal S, Sarkar S** 2017 Quantitative assessment of neotectonic effect on landform, drainage and sediment in Darjeeling Himalayas. 9th IAG International conference of Geomorphology, 6th to 11th November, 2017. Delhi, 397.
16. Mukherjee R, Chaudhuri S, **Ghosh A** 2017 The Study of Mechanical Properties of Bivalve (Mollusca) Shell Structures, Geo Con 2017, University of Calcutta, p.33-34
17. Talukdar M, **Sanyal, S, Sengupta P** 2017 Dufrenite crystallization in an Archaean BIF from the Mahadevi Layered Complex, Tamil Nadu, India. Goldschmidt 2017. Paris

6. Ongoing Collaborations

Anupam Ghosh

Prof. Helena Alexanderson, Lund University, Sweden

Prof. Stefano C. Vainia, Bologna University, Italy

Dipak C Pal

Prof. Chris Mc Farlane, Department of Earth Sciences, University of New Brunswick, Canada

Dr. Louise Corriveau, Geological Survey of Canada

Prof. Mark D Barton, Department of Earth Sciences, University of Arizona, USA

Dr. Dewashish Upadhyay, Department of Geology and Geophysics, IIT, Kharagpur

Dr. K.L. Pruseth, Department of Geology and Geophysics, IIT, Kharagpur

Dr. A.K. Sarangi, Uranium Corporation of India Limited

Shri B. C. Sarkar, Atomic Minerals Directorate for Exploration and Research, DAE, Govt, of India

Nibir Mandal

Professor Giorgio Ranalli, Department of Earth Sciences, Carleton University, Canada

Professor Fernando Ornelas Marques, Dep. Geologia, Fac. Ciências, Universidade de Lisboa Portugal

Dr. Ashok Arya, Scientist, Material Science Division, BARC, Mumbai, India

Dr. Santanu Bose, Department of Geology, Ballygunge Science College, CU

Pulak Sengupta

Prof. Michael Raith, University of Bonn, Germany

Prof. R. Klein Schrodt, University of Cologne, Germany

Prof. M. Ibanez-Mejia, University of Rochester, USA

Dr. Upama Dutta, IIT-ISM

Dr. D. Upadhyay, IIT-Kgp

Dr. Tapobrata Sarkar, IISER-Kolkata

Sanjoy Sanyal

Prof. Michael Raith, University of Bonn, Germany

Annual Report 2017-18

Prof. R. Klein Schrodt, University of Cologne, Germany

Prof. M. Ibanez-Mejia, University of Rochester, USA

Dr. Upama Dutta, IIT-ISM

Dr. D. Upadhyay, IIT-Kgp

Dr. Tapobrata Sarkar, IISER-Kolkata

Prof. D. Mukhopadhyay Calcutta University (Retd.)

Subir Sarkar

Prof. Adam Bumby, Department of Geology, University of Pretoria, Pretoria 0002, South Africa

Prof. El Hafid Bouougri Cadi Ayyad University, Marrakesh, Morocco.

Prof. Abhijit Basu, Indiana University, Bloomington, USA

Prof. Santanu Banerjee, IIT Mumbai

Prof. Partha Pratim Chakraborty, Delhi University

Subrata Karmakar

Prof. Michael Raith, University of Bonn, Germany

Dr. Kaushik Das, Hiroshima University, Japan

Prof. Tapas Biswal, IIT, Mumbai

Susanta Chaudhuri

Prof. Koustuv Debnath, Aerospace Engineering and Applied Mechanics, IEST, Shibpur, WB

Tridib Kumar Mondal

Dr. Md. Sakawat Hossain, Associate Professor, Department of Geological Sciences, Jahangirnagar University, Dhaka-1342, Bangladesh

Dr. Manish A. Mamtani, Professor, Department of Geology and Geophysics, IIT Kharagpur, India.

7. Awards/ Honors/Recognitions/Fellowships Received

Pulak Sengupta

Nominated Executive Committee Member, Electron Microscopy Society of India 2017-2019

Anupam Ghosh

Selected for Faculty Exchange Fellowship under the programme ERASMUS + International Credit Mobility supported by European Commission and visited University of Bologna, 11-27th June, 2017

Sadhana M Chatterjee

Received international travel support from DST (SERB)

Susanta Chaudhuri and co-authors (V.K. Das, R Banerjee and K Debnath)

Received the 'outstanding paper' award in the 'Earth Science' division for their paper entitled "Study on bridge pier scour and downstream siltation- an experimental approach" in the 2nd Regional Science & Technology Congress, South Zone, Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal. They also received the 'Best Paper' award in the 25th West Bengal State Science & Technology Congress,

Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal for the same paper in the segment of 'Earth Science'.

8. Serving as member/expert in any national/international academic body/committee (in good standing)

Dipak C Pal

- i) Council member of the International Association on the Genesis of Ore Deposit (IAGOD) as the Regional Councilor from India for four years' term (2016-2020)

Nibir Mandal

- i) Chairman INSPIRE Faculty Programme, Earth & Planetary Sciences (2016-)
- ii) Convener Sectional Committee (Earth Science), WAST (2016-)
- iii) Member Sectional Committee, WAST
- iv) Visitor's nominee Allahabad University
- v) Core Member Programme Advisory Committee (SERB)
- vi) Member of the Council, Indian National Science Academy, New Delhi
- vii) Member, Committee for Integrated M.Sc. Programme, School of Earth Sciences, Hyderabad University
- viii) Expert Member Faculty Promotion evaluation, University College of Cork, Ireland

Pulak Sengupta

- i) Member, Selection committee SSB Award (Earth, Atmosphere, Oceanography), CSIR, 2017
- ii) Member, DST-FIST, Department of Science and Technology, Govt. of India 2017-2020
- iii) Member, Sectional Committee, Indian Academy of Science, 2016-18
- iv) Member, Sectional Committee, Indian National Academy of Science, 2018-2020
- v) Member, Selection Committee, National Mineral Award, Ministry of Mines, Govt. of India, 2017
- vi) Member Executive Council, Electron Microscopic Society of India, 2017-2019
- vii) Co-coordinator, e-Patshala program, University, Grants Commission, 2017
- viii) Member, Science Education Panel, INSA, NASI, IASc, 2016-2018
- ix) Member, Expert Committee, UPSC, Feb, 2018
- x) Expert Panel Judge, Biju Pattnaik Award for Scientific Excellence, OBI, Govt. of Odisha, December, 2017

Subir Sarkar

- i) Member, Young Scientist Expert Committee, Earth and Atmospheric Science, DST
- ii) Served as External expert for the faculty promotion under the CAS of Different Indian Universities
- iii) Member of the B.O.S., Mizoram University, Aizawl
- iv) Member of the B.O.S., Burdwan University
- v) Member of the B.O.S., Vidhyasagar University

Sanjoy Sanyal

- i) Acted as visiting Faculty in IInd Semester, 2017-18 PG courses in Asutosh College, Calcutta University.
- ii) External examiner in Sidho-Kanho-Birsa University, Purulia.

Sunipa Mandal

- i) Undergraduate level teacher, Examiner, Paper setter, Moderator in Calcutta University and Kazi Najrul University.
- ii) Undergraduate level and Postgraduate level teacher, Examiner, Paper setter, Moderator in Asutosh College, Kolkata.

Susanta Chaudhuri

- i) External Expert in the moderation board in the Department of Remote Sensing, GIS & Geology of Vidyasagar University, WB

9. Editorial Board member (in good standing) in any Journal

Pulak Sengupta is Associate Editor, Journal of Earth System Sciences

Subir Sarkar is in the editorial board of Journal of Palaeogeography (Springer) and Journal of the Indian Association of Sedimentologists

10. Notable Achievements of MSc./Ph.D students

- 1) Ten students qualified NET examination (7 CSIR + 1 UGC + 2 LS)
- 2) Fifteen students qualified GATE
- 3) Our students are amongst the top rankers in the All India Joint Admission Test for MSc (JAM) and ranked 2nd, 4th and 17th
- 4) Six students have been offered job through on campus selection by the Hindustan Zinc Limited (Vedanta Group)
- 5) One student has been offered job through on campus selection by Schlumberger
- 6) Seven students were offered summer internship in different institutes/organizations of repute namely Wadia Institute of Himalayan Geology, Oil and Natural Gas Corporation of India Ltd., Central Mine Planning and Design Institute and Steel Authority of India Ltd.
- 7) Dr. Adrita Choudhuri has been awarded INSPIRE Faculty position BY DST.
- 8) Dr. Moumita Talukdar has been awarded INSPIRE Faculty position BY DST. She was funded by the DST to present her work in the Goldsmith Conference, Paris, 2017
- 9) Pratik Kumar Das awarded Newton Bhabha PhD Placement Programme, 2017 to conduct a short term research program in University College London, UK.
- 10) Ritabrata Dasgupta got a short-term overseas fellowship in Department of Geophysics, Chonnam National University, Republic of Korea, 2018.
- 11) Dr. Shreya Karmakar awarded Kothari Postdoctoral Fellowship
- 12) Smt. Ustha Dasgupta has been selected for PhD exchange mobility 2016-2017 (6 months) to the University of Bologna under the Erasmus+ Programme 2016-2017 to carry out collaborative geoscience research under the guidance of Prof. Stefano C. Vaiani (Italy) and Dr. A Ghosh (India)

11. Any other major achievement/notable involvement not listed above

- 1) **Sanjoy Sanyal** appeared in Yuvabani Prime time programme of All India Radio for a one hour long interview-cum-interactive session on “Geology: its prospects and future”.

- 2) The University Grants Commission has initiated a programme named UGC e-pathsala. **Pulak Sengupta, Subir Sarkar, Sanjoy Sanyal, Dipak C Pal and Soumik Mukhopadhyay** prepared study materials on different aspects of geology for this e- pathsala. Their teachings on these topics were also video recorded which can be accessed through UGC e-pathsala site (<https://epgp.inflibnet.ac.in/>) and DST-Vidya Mitra site (<http://vidyamitra.inflibnet.ac.in>).

INSTRUMENTATION SCIENCE

Phone : +91-33-2414-6321
Int. : 2457-2379
H.O.D. : Dr. Sankar Narayan Patra (w.e.f. 07.02.2018)
E-mail : hod.inst.sc.@jadavpuruniversity.in

1. **A. Courses Offered** : M.Sc. (Instrumentation) ,
2 years Course : Intake 22 and PhD. Present Number of Research scholars: 21
(Name of the Course, Duration of the Course, No of Students Enrolled)
B. Number of Faculty Members : 4
a. Dr Sankar Narayan Patra
b. Professor Radhaballabh Bhar
c. Dr Anup Kumar Ghosh
d. Dr Sachindranathg Das
e. Emeritus Professor Arunkumar Pal, PI , Thin Film Sensor Laboratory
f. Emeritus Professor Manoranjan Khan, PI, Pasma Studies Laboratory
2. **A. Area of Research Activities** :Material Synthesis Sensors Developments, SoIar Cell, Instruments design, Adaptive and Intelligent Signal Processing, Modeling, Bi-Sensor Synthesis, Thin Film Sensors, Plasma studies
(Broad Areas)
B. Major Research Project :
(Departmental/Individual, Name of the Project/Funding Agency)

Research Project (Sponsored) Ongoing:

Sl.No Name of Client/Organization/Nature of Project: Title/Duration of Project/Amount of Grant INR (Lakhs) /Role

1. CSIR, New Delhi, Time Dependent Nonlinear Structure in Plasmas in the Frame Work of Lagrangian Fluid Description 2017-203 years, PI: Prof M.Khan Co-PI: Prof R. Bhar
2. UGC-DAE-CSR, Indore in collaboration with Kalpakkam node Free Standing and Flexible ZnO based DMS Materials: PVDF/ ZnO:M(M:-Ni, Co and Ni_xCo_{1-x}) 2015 – 183 years
PI: Prof A.K.Pal Co-PI: Prof R. Bhar

Annual Report 2017-18

3. DST-PURSE-II, JU, Advanced Photovoltaic Solar Cell Structure: Nanocarbon based plasmonic solar cells, 2016-183 years PI: Prof R. Bhar&DrA.K.Ghosh
4. DMSRDE (DRDO), Kanpur Development of room temperature CO sensor based on CNT-PANI composite, 2.5 years 2015-2018, PI: Prof R. Bhar, Co-PI: DrS.Das
5. DST (SERB), Nano Carbon Based Plasmonic Solar cells 3 years 2015-2018 PI: Prof A.K.PalCo-PI: Prof R. Bhar
6. UGC BSR START- UP Signal processing of solar Astrophysical Spectra 2 years 2016-2018 Sole Investigator DrSankar Narayan Patra
7. DST, INSPIRE, Government of India Energy storage devices based on CNT composite and surface modified metal oxide nanocrystals.” 5 YRS2014-2018 Sole Investigator Dr. Sachindranath Das
8. UGC-DAE CRS, KC, Government of India Tuning the thermoelectric figure of merit of conducting polymer by incorporating metal nano clusters 3YRS2015-2018 Sole Investigator Dr. Sachindranath Das
9. DST (SERB), Government of India, Correlation between the compositional, structural and optical properties of perovskite layer with the efficiency of solar cell 3YRS 2015-2018 Sole Investigator Dr. Sachindranath Das

3. A. Invited Lectures Delivered/Sessions Chaired:

(Name of the Teacher, Type of Participants, Name of the Seminar / Conference etc. Place, Duration)

1. Prof A.K.Pal delivered an Invited talk and chaired a session at the 6th International Conference on Functional Materials & Devices 2017 (ICFMD - 2017) 15 – 18 August 2017 Malacca, Malaysia.
2. Prof R Bhar delivered an invited lecture in National Workshop on ‘Electron Microscopy and its Applications in Material Science and Biological Sciences’. January 29,2018, JU Instrumentation and Techniques of sample handling in Electron Microscopy

B. Seminar/Workshop/Conference/Symposium Attended:

(Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)

1. Name of the Teacher: Dr Sankar Narayan Patra

- a. Name of the Paper : Nonlinear Autoregressive Model (NARX) of Stationary Forbush Decrease Indices Based on Levenberg-Marquardt Feedback Algorithm”,
- b. Name of the Seminar / Conference : Long-Term Datasets For The Understanding Of Solar and Stellar Magnetic Cycles, International Astronomical Union Symposium No. 340, 2018 India.
- c. Place :Jaipur, Rajasthan, India
- d. Duration: February 19 to 25th, 2018

2. Name of the Teacher: Dr. Sachindranath Das

- a. Name of the Paper: “Development of Advance electrode materials for cost effective and large scale High performances Supercapacitor application”,

Name of Seminar / Conference:

ICONEST-2017, Second International Conference on Electrochemical Science and Technology, organised by The Electrochemical Society of India, IISC, Bangaluru and Department of

Annual Report 2017-18

Inorganic and Physical Chemistry, IISC, Bangaluru.

Place : Bangaluru, India

Duration : August 10 to 12th, 2017

b. Name of the Paper : “Study on Opto-electronic Properties of Hybrid Perovskite Crystal”

Name of Seminar / Conference: Recent Trends in Condensed Matter Physics (RTCMP 2017) organised by Bose Institute

Place: Kolkata

Duration: 31st October – 3rd November, 2017

C. Seminar/Workshop/Conference/Symposium Organized:

List of Workshop /Training/ Seminar organized as convener /Jt. Convener in the Department/Centre (in collaboration with Department):

Sl.No. Name of the Workshop /Training/Seminar/ Symposium. Role/Capacity, Duration

- 1 National Seminar on Solar Phenomenologies, Invited speaker : Professor Dipankar Banerjee, IIAP, Bangalore Title of his paper : *India's first Solar Observatory in Space- Aditya L1* Dr Sankar Narayan Patra Convener, 2nd January, 2018
2. National Workshop on ‘Electron Microscopy and its Applications in Material Science and Biological Sciences’. Prof R. Bhar, Convener, January 29-30, 2018
- 3.. Prof M.R.Gupta Memorial Lecture and National Seminar on ‘Recent Development in Plasma Physics’, Prof R.Bhar, Convener, August 4, 2017

D. Orientation Courses/ Refresher Courses Attended:

(Name of the Teachers, , Duration, Place)

Name of the Teachers : **Dr Sankar Narayan Patra**

Title of the Course: **UGC Sponsored Orientation programme**

Duration : One month (21st August -18th Sept., 2017)

Place: Jadavpur University HRDC

4. A. Books/Monographs etc. Published :

(Name of the Teacher, Name of the Book, Name of the Publisher)

Name of the Teacher - **Dr. Sachindranath Das**

Water splitting by using electrochemical properties of material; D. K. Tiwari, A. Ray, A. Roy and **S. N. Das** (Water Remediation, Energy, Environment and Sustainability, **Online ISBN**978-981-10-7551-3)

B. Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

(Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume)

Dr Sankar Narayan Patra

1. A new scheme of an all optical frequency encoded dabit based latch with its simulated result Partha Pratim Sarkar, Bitan Ghosh, Sankar Narayan Patra and Sourangshu Mukhopadhyay. Journal of Optical Technology, Vol. 84, Issue 9, pp. 631-634 (2017), ISSN: 1070-9762, DOI: 10.1364/JOT.84.000631.
2. A novel approach to realize of all optical frequency encoded dabit based XOR and XNOR logic gates using optical switches with simulated verification.’, Bitan Ghosh, Smita Hazra, Niladri Halder, Dibyendu Roy, Sankar Narayan Patra, Jaydeep Swarnakar, Partha Pratim

Sarkar and Sourangshu Mukhopadhyay, Optics and Spectroscopy, March 2018, Volume 124, Issue 3, pp 337-342, ISSN: 0030-400X, DOI: 10.1134/S0030400X1803013X

3. Dibyendu Biswas, Swarup Poria & Sankar Narayan Patra (2017) Analysis of different growth mechanisms from phenomenological consideration, Journal of Interdisciplinary Mathematics, 20:2, 443-459, DOI: 10.1080/09720502.2015.1123439

Dr Anup Kumar Ghosh

1. Das D., Mukherjee M., Pal A. K. and Ghosh A. K. Extraction of xylem fibers from *Musa sapientum* and characterization, Fibers and Polymers, 18(11), 2225-2234, (2017).
2. Kumar S, Paul A, Kalita S, Kumar A, Srivastav S, Hazra S, Ghosh AK, Mandal B, Mondal AC. (2017) A Peptide Based Pro-Drug Ameliorates Amyloid- β Induced Neuronal Apoptosis in in vitro SH-SY5Y cells. Curr Alzheimer Res. Jul 13. doi: 10.2174/1567205014666170713153414. PMID: 28714389.
3. Das D., Bhunia R., Das S., Dey R., Hussain S., Ghosh A K and Pal. A. K. CdS impregnated cellulose nanocrystals/PVDF composite flexible and freestanding films: Impedance spectroscopic studies, Polymer Engineering & Science, 58(8), 1419-1427, (2018)
4. Paul A, Kumar S, Kalita S, Ghosh AK, Mondal AC, Mandal B. (2018) A Peptide Based Pro-drug Disrupts Alzheimer s Amyloid into Non-toxic Species and Reduces A β Induced Toxicity In Vitro. Int J Pept Res Ther. June; doi: 10.1007/s10989-017-9602-8.

Dr. Sachindranath Das

1. Multifunctional PANI-MWCNT Composites as High Performing Electrode Material for Supercapacitor and Advanced Metal Free Electro Catalyst for Hydrogen Evolution Reaction: A. Roy, A. Ray, S. Saha and **S. N. Das**; **International Journal of Hydrogen Energy** 43 (2018) 7128-70139
2. Electrochemical properties of TiO₂-V₂O₅ nanocomposites as a high performance supercapacitor electrode material A.Ray, A.Roy, P.Sadhukhan, S.RoyChaowdhury, P.Maji, S.K.Bhattacharya and **S.N.Das**; **Applied Surface Science** 443 (2018) 581-591
3. Frequency and Temperature dependent Dielectric properties of TiO₂-V₂O₅ nanocomposites: A. Ray. A. Roy, P. Sadhukhan, P. Maji, S.Dey, S.Chatterjee, **S.N.Das**, **Journal of Applied Physics** 123 (2018) 104102
4. Correlation between the dielectric and electrochemical properties of TiO₂-V₂O₅ nanocomposite for energy storage application: A. Ray, A. Roy, S. Bhattacharjee, S. Jana, C. K. Ghosh, C. R. Sinha, **S. N Das**; **ElectrochimicaActa**266 (2018) 404-413
5. Microstructure, optical, dielectric and electrical characterizations of Mn doped ZnO nanocrystals synthesized by mechanical alloying; A. Dhara, S. Sain, **S. N. Das** and S.K. Pradhan; **Ceramics International** 44 (2018) 7110-7121
6. ZnO polymer composite based visible blind UV photo detector: S.Patra, A.Ray, A.Roy, P.Sadhukhan, S.Pujaru, U.K.Ghorai, R.Bhar, **S.N.Das**; **Materials Research Bulletin** 101 (2018) 240-245
7. Organo-lead Halide Perovskite Induced Electroactive phase in Porous PVDF Films: An Excellent Material for Piezoelectric Energy Harvester and Photodetector, A.Sultana, P.Sadhukhan, MdM.Alam, **S.N.Das**, T.R.Midya and D.Mandal; **Applied Materials & Interfaces** 10 (2018) 4121-4130.

8. Microstructure, optical and electrical characterizations of Mn doped ZnSnanocrystals synthesized by mechanical alloying; A. Dhara, S. Sain, **S. N. Das** and S.K. Pradhan; **Materials Research Bulletin** 97 (2018) 169
9. Dielectric Relaxation and AC Conductivity of Halide perovskites $\text{CH}_3\text{NH}_3\text{PbX}_3$ (X=Br, I) Md. S. Sheikh, A Sakhya, P. Sadhukhan, A. Dutta, **S.N.Das**, T.Sinha; **Ferroelectrics** 514 (2017) 146-157

Professor Radhaballabh Bhar & Professor Arun Kumar Pal

1. Alternate current conductivity in BSb films prepared by PLD technique: Electron transport processes in low-temperature range (10-275 K), Shirsendu Das, Ritamay Bhunia, Shamima Hussain, **Radhaballabh Bhar, Arun Kumar Pal**, The European Physical Journal Plus, (2017/4), 132, p-1-8.
2. Probing local structure of co doped polyvinylidene fluoride-ZnO thin films using X-ray absorption spectroscopy, R Dey, A.K. Yadav, R. Bhunia, S.N. Jha, D. Bhattacharyya, S Hussain, **R Bhar, A.K.Pal**, SpectrochimicaActa Part B: Atomic Spectroscopy(2017),131, 115 - 123
3. Chemical synthesis of nanoparticles of nickel telluride and cobalt telluride and its electrochemical applications for determination of uric acid and adenine, SusmitaPradhanan, Rashmita Das, SudipBiswas, Dipak K Das, **RadhaballabhBhar**, RajibBandyopadhyay, PanchananPramanik, ElectrochimicaActa (2017) 238,185 - 193.
4. Cuprous oxide (Cu_2O) thin films prepared by reactive dc sputtering technique, S Dolai, S Das, S Hussain, **RBhar, AK Pal**, Vacuum, (2017/4/24) 141, 296-306.
5. Room temperature magnetism in free standing nano-Ni/PVDF composites., R Dey, R Bhunia, S Hussain, P.Dutta, S.Chatterjee**R Bhar, AK Pal**, Polymer-Plastics Technology and Engineering (2017),56 (11), 1213- 1224.
6. Cupric oxide(CuO) thin films prepared by reactive dc magnetron sputtering technique for photovoltaic application., S.Dolai, R.Dey, S.Das, S.Hussain, **R.Bhar, A.K.Pal**, Journal of Alloys and compounds,(2017) 724, 456 – 527
7. Control of interfacial layer growth during deposition of high ϵ oxide thin films in reactive RF-sputtering system., A.Rakshit, A.Bose, D.Biswas, M.Roy, R.Bhar, S.Chakraborty, Applied Surface Science (2017) 423, 957 – 960..
8. Phosphorus doping of diamond-like carbon films by radio frequency CVD-cum-evaporation technique, R Dey, S Dolai, S Hussain, **R Bhar, A.K. Pal**, Diamond and Related Materials, (2018)
9. Structural and Optical properties of Manganese-doped Nanocrystalline Zinc oxide/ Polyvinylidene Fluoride Flexible Composite Thin Films Deposited by Sol-Gel, R.Bhunia, S.Das, S. Hussain, G.Sehgal, B.R.Chakraborty, **R.Bhar, A.K.Pal**, (2018) , Advances in Polymer Technology, 37(1), 60 – 70.
10. Flexible and free-standing films containing cobalt-doped nanocrystalline zinc oxide dispersed in polyvinylidene fluoride matrix: synthesis and characterization. R Dey, R Bhunia, S Hussain, BR Chakraborty, **R Bhar, AK Pal**, Polymer Bulletin, (2018) 75 (1), 307-325.
11. ZnO polymer composite based visible blind UV photo detector, S Patra, A Ray, A Roy, P Sadhukhan, S. Pujaru, U.K. Ghorai, **R Bhar, S Das**, Materials Research Bulletin ,(2018) 101, 240 – 245.
12. An efficient electrode for simultaneous determination of guanine and adenine using nano-sized lead telluride with graphene. S Pradhan, S Biswas, D.K. Das, **R. Bhar, R Bandyopadhyay, P Pramanik**, New, Journal of Chemistry, (2018), 42 (1), 564-573.

**No of Students Awarded Ph.D.(Sc.) during 2017 – 18: 5(Four),
(2 Under Prof R Bhar & A.K.Pal,
1 Under Prof R Bhar ,
1 Under Dr Sankar Narayan Patra,
1 Under Prof M Khan and Prof R Bhar)**

LIFE SCIENCE & BIO-TECHNOLOGY

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1. A. Courses Offered :

Name of the Course	Duration of the course	No. of students enrolled
M.Sc.(Biotechnology)	2 Years	39

1. B. Number of Faculty Members :

Professors	Associate Professor/ Readers	Assistant Professor/Lecturer
3	0	2

2. A. Area of Research Activities :

(Broad Areas)

1. Microbial Biodiversity & Microbial Biotechnology
2. Molecular Biology & Gene Technology
3. Cell biology of cancer, aging, Nanobiotechnology
4. Messenger RNA biogenesis and surveillance, Regulation of Eukaryotic gene Expression, Quality Control of Eukaryotic gene expression.

2. B. Major Research Project :

(Departmental/Individual, Name of the Project/Funding Agency)

Investigators	Name of Project	Funding Agency
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Prof. Parimal Karmakar

Autophagy and Aging: functional and physical association of human premature aging syndrome protein WRN” [Ref. No. 37(1673)/16/EMR-II dated 11-05-2016]. CSIR, ongoing Project cost 20 lakhs

To assess the contribution of PTEN and its post-translational modulation in DNA repair DST sub-pathways (EMR/2016/001151), Dept of Science and Technology, Govt. of India, ongoing, Project cost 40.7 lakh

Development of functional biopolymer-based matrices for delivery of healing agents in 2018-21 chronic wound (File no: ST/P/S & T/2G-13/2017), DBT, ongoing, WB 15 Lakh

Prof. Biswadip Das

Uncovering Nuclear Machinery involved in the Turnover of ribosomal and other non-coding RNAs in *Saccharomyces cerevisiae* [File No. 38(1427)/16/EMR-II dated 17-05-2016] CSIR –Ongoing, Project Cost 27.8 Lakhs

Prof. Biswadip Das

Studies on the Functional role of DRN, a novel nuclear mRNA degradation pathway on the Cellular Regulation of Unfolded Protein Response in *Saccharomyces cerevisiae* [File No.: BT/PR6078/BRB/10/1114/2012], DBT- Project Cost 51.76 Lakhs Completed in May 2018

Dr. Satarupa Das & Prof. Biswadip Das

Towards the Understanding of the role of interaction/associations between key components of DRN (Decay of RNA in the Nucleus) pathway in *Saccharomyces cerevisiae* [SR/WOS-A/LS-1067/2014] DST Project Cost 23 Lakhs Completed in October 2017

Dr. Paltu Kumar Dhal

Indigenous Microorganisms (IMO's)- based Technology for Bioremediation of Phosphogypsum generated from Phosphoric Acid Plants in India. (Code:570GLO2013) Phos Agro/UNESCO/IUPAC Research-Ongoing Grant. Project Cost : US\$28,388

Biorational management of rice pests and diseases: evaluation of nanoparticle based and endophyte-mediated (as Co-PI). ISI, Kolkata Project Cost 32 Lakhs Completed in August 2018

Microbial diversity of water samples from Sundarban mangrove forest (as PI and collaboration with ZMT, Bremen, Germany), NAM S& T-ZMT, Germany Project Cost 3750 Euro. Completed in July 2017

Dr. Arunima Sengupta

AMPK, FOXO AND NFATC3 transcription factor function in regulation of cardiomyocyte proliferation. (Ref No: BT/Bio-CARE/01/9686/2013-14), DBT-Project cost 50.78 lakhs, ongoing till May 2019

Start-up grant under UGC-Faculty Recharge Program (FRP), UGC- Project cost 6 Lakhs, ongoing till March 2019

3. A. Invited Lectures Delivered/Sessions Chaired:

(Name of the Teacher, Type of Participants, Name of the Seminar / Conference etc. Place, Duration)

Name of the Teacher Type of Participation Name of the Seminar/Conf Place Duration

Prof. Parimal Karmakar

Keynotes lecture **Perspectives of human health Microbial Biotechnology & innovation, National Seminar, Department of Physiology with community health & department of Microbiology, Vidyasagar University, 27-29 March, 2018.**

Prof. Biswadip Das

Lecture Delivered - Invited 10th Conference on Yeast Biology, JNU, New Delhi, February 7-11, 2018.

Dr. Paltu Kumar Dhal

Lecture Delivered - Invited, International Conference on Assam University, Silchar July 27-28, 2017

Invited Lecture Delivered - ZMT regional alumni conference in Southeast Asia Universitas Padjadjaran (UNPAD), Bandung, Indonesia, April 23 -27, 2018

Invited Lecture Delivered 8th IUPAC International Conference on Green Chemistry (ICGC) Bangkok (Thailand), 9-14 September 2018

Dr. Arunima Sengupta

Invited Lecture Delivered, INTZOOCON 2018, International Conference to celebrate 100th years of excellence of dept. of Zoology, University of Calcutta, Ramakrishna Mission Institute of Culture, Calcutta. February 1-3, 2018

3. B. Seminar/Workshop/Conference/Symposium Attended:

Name of the Teacher Name of the Paper presented Name of the Seminar Place Duration

Prof. Biswadip Das

Messenger RNA Surveillance in Eukaryotic Cells: safeguarding the cells and regulating the gene expression, 10th Conference on Yeast Biology, JNU, New Delhi February 7-11, 2018.

Attended as part member of the Advisory Committee, 3rd Interdisciplinary Approach to Biological Sciences, Indian Association of Cultivation of Science, Kolkata, February 1-3, 2018

Dr. Paltu Kumar Dhal

Bioresource Protection and Sustainable Development: The role of microbiome Humboldt Colloquium, Bengaluru, India, 23–25 November 2017

Dr. Arunima Sengupta

Forkhead box (FOX) transcription factors: role in regulation of cardiomyocyte proliferation during heart development and disease, INTZOOCON 2018. Ramakrishna Mission Institute of Culture, Calcutta, February 1-3, 2018

3. C. Seminar/Workshop/Conference/Symposium Organized:

(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

Name of the Teacher Role Name of the Seminar Place Duration

Prof. Biswadip Das

Member of the Advisory Committee, 3rd Interdisciplinary Approach to Biological Sciences, Indian Association of Cultivation of Science, Kolkata, February 1-3, 2018

3. D. Orientation Courses/ Refresher Courses Attended:

(Name of the Teachers, Title of the Course, Duration, Place)

Name of the Teacher Role Name of the Refresher Course Place Duration

Dr. Paltu Kumar Dhal

Participant, 68th Orientation Programme conducted by HRDC-JU, Kolkata Jadavpur University, Salt lake campus Kolkata. February 2nd- March 4th, 2018

Participant, Modern Methods in Earth System Science, Department of Geological Science, JU, Kolkata, 18th September-11th October, 2018

4. A. Books/Monographs etc. Published :

(Name of the Teacher, Name of the Book, Name of the Publisher)

Name of the Teacher Book/Monograph Publisher Volume Year

Dr. Paltu Kumar Dhal

Title of the chapter: Bacterial communities of Uranium contaminated tailing ponds and their interactions with different heavy metals in **book: Advances in Soil Microbiology: Recent Trends and Future Prospects** Springer Book DOI.10.1007/978-981-10-6178-3_6 2018

4. B. Articles Published in Journals: (Including National/International & Peer-reviewed Journals)

(Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume)

Authors Title Name of the Journal Date of Publication Volume

Prof. Parimal Karmakar with Saikat Banerjee, Roumi Patra, Pravat Ghorai, Paula Brandão, Sougata Ghosh Chowdhury, Parimal Karmakar and Amrita Saha : Syntheses, crystal structures, DNA binding, DNA cleavage and DFT study of Co(III) complexes involving azo appended Schiff base ligands..., New J. Chem. IF 3.2. 2018, Accepted, Manuscript <http://dx.doi.org/10.1039/C8NJ02235F>

Prof. Parimal Karmakar with Jayanta Mandal, Pravat Ghorai, Kunal Pal. Amrita Saha : 2-hydroxy-5-methylisophthalaldehyde based fluorescent-colorimetric chemosensor for dual detection of Zn²⁺ and Cu²⁺ with high sensitivity and application in live cell imaging. Journal of Luminescence. IF2.73, Available online 28 August 2018, doi.org/10.1016/j.jlumin

Prof. Parimal Karmakar with Somtirtha Banerjee, Biswajoy Bagchia, Suman Bhandary, Arpan Kool, Sukhen Das : Antimicrobial and biocompatible fluorescent hydroxyapatite-chitosannanocomposite films for biomedical applications. Colloids and Surfaces B: Biointerfaces, IF 3.99. 2018, 171 (2018) 300–307

Prof. Parimal Karmakar with Debalina Bhattacharya¹, Mainak Mukhopadhyay, Maitree Bhattacharyya, Is autophagy associated with diabetes mellitus and its complications? a review. EXCLI Journal IF2.42, 2018, 17:709-720

Prof. Parimal Karmakar with Jyotirindra Maity, Biswadip Das, Vilhelm A. Bohr : Acidic domain of WRNp is critical for autophagy and up-regulates age associated proteins. DNA repair, IF:3.6 (2018), May, doi: 10.1016/j.dnarep. 2018.05.003.

Prof. Parimal Karmakar with Puja Paul, Sabyasachi Chatterjee, Arindam Pramanik, Subhash Chandra Bhattacharya, Gopinatha Suresh Kumar : Thionine Conjugated Gold Nanoparticles Triggers Apoptotic Activity Towards HepG2 Cancer Cell Line. ACS Biomaterials Science and Engineering.(IF 3.234). 2018, 2018, 4 (2), pp 635–646

Prof. Parimal Karmakar with Arunodaya Gautam, Abhishek Raya, Soumalya Mukherjee, Santanu Dasa, Kunal Pal, Subhadeep Das, Mitali Raya, Sajal Ray : Immunotoxicity of copper nanoparticle and copper sulfate in a common Indian earthworm. Ecotoxicology and Environmental Safety (IF 3.74). 2018, 148 (2018) 620–631

Prof. Parimal Karmakar with Ramesh Chandra Santra, Durba Ganguly, Debalina Bhattacharya, Abhijit Saha and Saurabh Das : γ -radiation-induced damage of nucleic acid bases, calf thymus DNA and DNA within MCF-7 breastcancer cells by [Cu₂(OAc)₄(tnz)₂]: a potential radiosensitizer. New J. Chem.(RSC), (IF 3.27). 2017, 2017,41, 11679

- Prof. Parimal Karmakar with Bitapi Mandal, Soumen Singha, Sourav Das : Cu Complex of Emodin with improved anticancer activity as demonstrated by its performance on HeLa and Hep G2 cells. *RSC advance*, (IF 3.18). 2017. 2017, 7, 41403-41418
- Prof. Ratan Gachhui, Mukherjee, A., Banerjee, S., Gachhui, R. : Investigation of conformational changes of levansucrase isolated from *Acetobacter nitrogenifigens* strain RG1 by mercuric and cadmium ion. *International Journal of Biological Macromolecules*. 2018, 120(Pt A), 189-194.
- Sarkar, S., Chakravorty, S., Mukherjee, A., Bhattacharya, D., Bhattacharya, S., Gachhui, R. : *De novo* RNA-Seq based transcriptome analysis of *Papiliotrema laurentii* strain RY1 under nitrogen starvation. *Gene*. 2018. 645, 146-156.
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- Dr. Paltu K. Dhal With Soumendranath Chatterjee, Priyanka Mukhopadhyay, Raktima Bandyopadhyay, Debraj Biswal, Prabir Kumar, Bandyopadhyay : Molecular characterization and phylogenetic analysis of *Plasmodium vivax*, *Plasmodium falciparum*, *Plasmodium ovale*, *Plasmodium malariae* and *Plasmodium cynomolgi*, *Journal of Parasitic Diseases*, 2017. March 2017, Volume 41, Issue 1, pp 230–236
- Dr. Paltu K. Dhal With Pranamita Kunda and Abhishek Mukherjee : Endophytic bacterial community of rice (*Oryza sativa* L.) from coastal saline zone of West Bengal: 16S rRNA gene based metagenomics approach, *Meta Gene*. 2018, Volume 18: pp 79–86
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- Sen P, Polley A, **Sengupta Arunima** and Chakravorty S. : Tbx20 promotes H9c2 cell survival against oxidative stress and hypoxia in vitro, *Indian Journal of Experimental Biology*, 2018. Accepted

6. Major Achievements:

Six Students were selected to receive RISE fellowship from Department of Science, Technology, Higher Education and Biotechnology, Government of West Bengal for carrying out their summer training Programme in 2017 summer at various leading laboratories across the state. Five students qualified in UGC-CSIR NET examination, June and December, 2017
Dr. Paltu K. Dhal receives a PhosAgro/UNESCO/IUPAC Green Chemistry for Life Research Grant.

MATHEMATICS

(DRS, UPE-II, DST-PURSE Supported)

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H.O.D. : Prof. Ashis Kr. Sarkar
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1. A. Courses Offered:

B.Sc (Hons.) :	3 years	Total intake: 98
M.Sc (Day) :	2 years	Total intake: 60
M.Sc (Night) :	3 years	Total intake: 60
Ph.D Course work.		

1. B. Number of Faculty Members: 28(in position) 17(vacant)

Professor:	20
Associate Professor:	03
Assistant Professor:	05
Emeritus Professor:	01

2. A. Areas of Research Activities:

Algebra, Mathematical Biology, Bio-Fluid Mechanics, Computer Science, Cosmology & Astrophysics, Differential and Computational Geometry, Dynamical Meteorology, Dynamical System, Fluid Mechanics, Functional Analysis, Game Theory, Graph Theory, Mathematical Physics, Operational Research, Plasma Dynamics, Real Analysis, Solid Mechanics.

2. B. Major Research Project:

Prof. Bibhas C. Giri

Title: Mathematical model development and analysis of bullwhip effect in closed-loop supply chain under uncertainties

Funding Authority: MATRICS (SERB, DST).

Duration of the project: 2018-2021

Prof. Farook Rahman

Title: Theoretical Study on Dark Matter, Gravastar and Warmhole Spacetimes.

Funding Authority: SERB, DST.

Duration of the project: 2017-2020.

Project Value: ₹ 8,03,000.

Dr. Gopal Chandra Shit

Title: Modelling of electro-osmotic flow and heat transfer in a micro-channel for microfluidic applications.

Funding Authority: SERB, DST.

Duration of the project: 2017-2021

Project Value: ₹ 20,32,000.

Prof. Kallol Paul

Title: Birkhoff-James orthogonality and its application in the geometry of Banach spaces.

Funding Authority: MATRICS SERB, DST.

Duration of the project: 2018-2020.

Prof. Nandadulal Bairagi

1. **Title :** Dynamics Preserving Discretization Technique for Nonlinear System of Differential Equations.

Funding Authority: MATRICS (SERB, DST).

Duration of the project: 2018-2021

2. **Title:** Emergent dynamics in ecological networks: Spreading of disease and its control study.

Funding Authority: SERB, DST (P.I).

Duration of the project: 2017-2020

Prof. Priti Kumar Roy

1. **Title:** Exploring uncertainties for production bottlenecks of biodiesel in SCEM: Deterministic and Stochastic studies with dynamic optimization.

Funding Authority: SERB

Duration of the project: March 16 – Till Date.

2. **Title:** Development of Models of Immune-Dependent Disorders and Finding Optimal Strategies for Their Treatment: Analytical and Computational Approaches.

Funding Authority: DST-RFBR

Prof. Subenoy Chakraborty

Title: Symmetries in Differential Equation and Its Application to Classical and Quantum Cosmology

Funding Authority: SERB (recommended by MATRICS)

Duration of the project: 2017- till date.

Prof. Sudeshna Banerjea

1. **Title:** Water wave scattering by obstacles of various geometrical configurations.

Funding Authority: Council of Science & Industrial Research (CSIR)

Duration of the project: 2016- till date.

Project Value: ¹ 8,30,000.

2. **Title:** Integral equation and its application to the problems on interaction of water waves with obstacles present in ocean.

Funding Authority: SERB, DST (recommended by MATRICS)

Duration of the project: 2017-2020.

Project Value: ¹ 2,00,000.

3. **A. Invited Lectures Delivered/Session Chaired:**

Prof. Arindam Bhattacharyya

1. Chaired a session in Thematic school on “Quasi isometric rigidity” organized by Instt. Math Tulous (IMT), France and sponsored by University of Marseille, France from 24th June to 14th July 2017.
2. Delivered a series of lecture at National Level Teachers’ Enrichment Workshop during June, 2017, at Calcutta Mathematical Society organized jointly by Calcutta Math. Soc. And The (Indian) Mathematics Consortium, Pune.

Prof. Farook Rahaman

1. Invited talk delivered on “Existence of wormholes in galactic region” in National Level Workshop CCEGR-2017 organized by Burdwan University in 2017.
2. Invited talk delivered on “Finsler geometry and its application in Astrophysics” in National seminar on Mathematical and theoretical physics organized by Calcutta Mathematical Society in 2018.

Dr. Gopal Chandra Shit

Delivered an **invited talk** on “Modeling of blood flow and heat transfer through artery with an aneurysm/stenosis” at the “International Conference on Mathematical Modeling and Computations in Bio-systems” during March 26-14, 2018 organized by the Department of Mathematics, **IIT Roorkee**.

Prof. Kallol Paul

1. Invited talk delivered on “Role of Birkhoff-James orthogonality in Banach space geometry” at the Department of Mathematics, Delhi University on 08.03.2018.
2. Invited talk delivered in the International Conference on Mathematical Sciences and Applications (ICMSA 2018) held during February 23-25, 2018 at Guru Ghasidas Vishwavidyalaya, Bilaspur, India.
3. Chaired a session in the International Conference on Mathematical Analysis and Application in Modelling (ICMAAM-2018) held during January 9-12, 2018 at Jadavpur University, Kolkata.

Prof. Nandadulal Bairagi

1. Invited talk delivered on Dynamical Systems: Theory & Applications (DSTA 2016) organized by Indian Institute of Technology (Indian School of Mines), Dhanbad during May 08-12, 2017.
2. Invited talk delivered in the International Conference “BIMAT 2017” held at Institute of Numerical Mathematics, Russian Academy of Sciences, Moscow, Russia from 30th October - 03rd November 2017.

3. Invited talk delivered in the Indian Science Congress 2018 held at Manipur University, Imphal during 16-20th March 2018.
4. Invited talk delivered in the International Conference on Recent Trends in Mathematical Sciences “ICRTM 2018” held at Department of Applied Mathematics, Maharaja Bir Bikram University, Agartala, Tripura during 24-25 March 2018.

Prof. Pratulananda Das

1. Visited Kurt Godel Research Center for mathematical logic, Vienna, Austria for collaborative research work from May 19 - 30, 2017.
2. Visited University of Gdansk, Poland under INSA-PAS bilateral exchange program from June 01 - 30, 2017.
3. Delivered an invited talk in the “Frontiers of Selection Principles”, Cardinal Stefan Wyszyński University, Warsaw, Poland held during 21 August - 01 September, 2017.

Prof. Priti Kumar Roy

1. Delivered an invited talk “Enumerating the Anti-HIV potential of modern Therapeutics: A mathematical study” at Second Euro International Conference on HIV and AIDS (WCHA 2017), Kottayam, Kerala, India held on 12 -14 May 2017.
2. Resource person of “5 Day National Workshop on Recent Advances in Modelling & Computational Techniques in applied Mathematics”, IEST, Shibpur, India held on 20-24 November 2017.
3. Delivered an invited talk “A mathematical perspective on Production of Biodiesel” at a one-day interdisciplinary seminar entitled “Applications of Mathematics in Bio-sciences”, Department of Mathematics, Sammilani Mahavidyalaya, Kolkata, India, held on 13th January 2018.
4. Delivered an invited talk “Extinction of Cancer cell: An approximate solution for HPV individuals with therapeutic control” at “Lilac International Conference of Application on Statistics (LICAS 2017)” in activity center of Harbin Institute of Technology, Harbin, P.R.China from June 2nd to 5th, 2017.
5. Delivered an invited talk “Mathematical study of Modern Therapeutics of HIV with Social Awareness” at Department of Mathematics, School of Science, Beijing University of Civil Engineering and Architecture, Beijing, P.R.China, on 6th June, 2017.
6. Delivered an invited talk “Mathematical Modeling for the Prevention of Methanol Poisoning through Ethanol by Impulsive Way” at Department of Mathematics, Beijing Institute of Technology, Beijing, P.R.China, on 8th June, 2017.
7. Delivered a talk “Mathematical Modeling of Methanol Poisoning with Impulsive Dosing of Antidote Therapeutics to Prevent Toxicity” at Peter the Great St. Petersburg Polytechnic University, ICMAS-2017, St. Petersburg-Russia, on 26th July, 2017.
8. Delivered an invited talk “Optimal Control Theoretic Approach in Modeling of HIV and Psoriasis Treatments” at the Optimal Control Department of the Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University, Moscow, Russia, on July 31, 2017.
9. Delivered an invited talk at “Anyang Institute of Technology”, in Anyang, Henan province, China, 28th March, 2018.
10. Delivered an invited talk at “Xinyang Normal University”, in Xinyang City, Henan 464000, P.R. China, 3rd April, 2018.

11. Delivered an invited talk at “Henan Normal University”, in Xinxiang Shi, Henan Sheng, China, 453002, 4th April, 2018.

Prof. Subenoy Chakraborty

1. Delivered a Third A. K. Gayen memorial lecture on “Black Hole the Mysterious Objects: The Story So Far” on 26th April 2017, at Vidyasagar University.
2. Delivered an invited talk on “A Study on Black Hole” at DST Centre for interdisciplinary Mathematical Sciences at BHU, on May 04, 2017.
3. Delivered a lecture on “Dynamical Black Hole and Related Properties” at Gravity seminar in IUCAA on 15th June, 2017.
4. Delivered invited talks on “From Blackhole Thermodynamics to Cosmological Constant” and “The Mathematical Story of Time Machine” in the DST SERB on “CCEGR -2017” at the Department of Mathematics, Burdwan University, Golapbag Campus on 31st July, 2017.
5. Delivered a lecture on “Special Theory of relativity and limitations of Newtonian Theory A mathematical frame work” at Panihati Mahavidyalaya on 31st August, 2017.
6. Deliver an invited talk on “Einstein’s Theory of Relativity: The Mathematical Beauty” in a day Lecture series on Application of Mathematics and statistics to physical and Biological system in the Agricultural and Ecological research unit, ISI, Kolkata on the occasion of 125th Birth Anniversary of Prof. P. C. Mahalanavish on 12 December, 2017.
7. Deliver an invited talk on “Mathematical Beauty and Physical Mystry of Lorentzian Manifold: Time Machine” in the 2nd Regional Science and Technology Congress (Southern Region) at the University of kalyani in Collaboration with the department of Higher Education, Science and technology and Biotechnology, Govt. Of West bengal on 14 December, 2017.
8. Delivered invited talk on “The Mathematical Foundation of Gravitational Waves: The Story so far” in “ICMAAM - 2018” at the Department of Mathematics, Jadavpur University, January 9-12, 2018.
9. Delivered a course of lectures on “Einstein’s Relativity Theory” and A lecture on “Black Holes” and “Gravitational Waves” at NIT Rourkela during Feb 8-11, 2018.
10. Delivered invited talk on “A tribute to Prof. Satyendra Nath Bose in his 125th Birth Anniversary: Bose-Einstein Statistics” in “ICMA - 2018” at the Department of Mathematics, Burdwan University, Golapbag Campus on 16th February, 2018.
11. Delivered a lecture on “Black Hole: The mysterious object” at Vidyasagar College for women, on 23rd February, 2018.

Prof. Sudeshna Banerjea

1. Invited talk delivered in 32nd Annual Conference of Ramanujan Math Soc (RMS) organized by Rani Channamma University, Belagavi (Karnatak)during June 23-25, 2017.
2. Invited talk delivered in aninternational conferenceorganized by Burdwan University on February 16, 2018.
3. Invited talk delivered in a seminar organized by Diamond HarborWomen’s University on March 08, 2018.

Dr. Sukhendu Kar

1. Delivered an invited talk in the National Seminar On “Visva – Bharati Meet On Algebra and Its Applications - 2018” (VBMAA – 2018)”, *held at Department of Mathematics, Visva–Bharati, Bolpur, Santiniketan during 24 – 25 March, 2018.*

2. Chaired a session in the “National Conference on Mathematical and Theoretical Biology (NCMTB – 2018)” held at Department of Mathematics, Jadavpur University, Kolkata during 22 – 23 March, 2018.

3. B. Seminar/Workshop/Conference/Symposium Attended / Organized:

Prof. Arindam Bhattacharyya

1. Acted as **Joint Organizing secretary** of Conference on “**Differential Geometry and its Applications**”, held during January 27-28,2017, jointly organized by Department of Mathematics and Statistics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur and Tensor Society.
2. Organized National Level Teachers’ Enrichment Workshop during June, 2017, at Calcutta Mathematical Society organized jointly by Calcutta Math. Soc. And The (Indian) Mathematics Consortium, Pune.

Prof. Priti Kumar Roy

Acted as an Organizing Secretary, “**International Conference on Mathematical Analysis and Application in Modelling**” organized by Department of Mathematics, Jadavpur University, during the period 09-12th January 2018.

Prof. Subenoy Chakraborty

Organized a day seminar on “**Geometry, the key role in Mathematical Physics**” at the Department of Mathematics, Jadavpur University on January 19, 2018.

Prof. Sagnik Sinha

Presented a paper entitled “Semi-Markov Decision Processes with Vector Payoff” (authored by Sinha. S., Bakshi. K.G. & Mondal. P.) in International Symposium on Operations Research and Game Theory Modelling and Computation at I.S.I. Delhi during January 9-11, 2018.

3. C. Orientation Courses/Refresher Courses Attended / Organized:

Prof. Subenoy Chakraborty

An invited lecture on “**Partial differential equations and its Applications**” was delivered in the refresher’s course at the Department of Mathematics, **University of Burdwan**, July 27, 2018.

4. A. Paper Published in Journals and Books:

Prof. Abhijit Lahiri

1. **Debkumar Ghosh , Abhijit Lahiri, Ibrahim A. Abbas:** “Two-dimensional generalized thermo-elastic problem for anisotropic half-space”, *Mathematical Models in Engineering*, Vol. 3, Issue 1, 27-40, <https://doi.org/10.21595/mme.2017.18236>.
2. **Nantu Sarkar,Debkumar Ghosh , Abhijit Lahiri:** “A two-dimensional magneto-thermoelastic problem based on a new two-temperature generalized thermoelasticity model with memory-dependent derivative”, *Mechanics of Advanced Materials and Structures*, 1-10, <https://doi.org/10.1080/15376494.2018.1432784>
3. **S. Santra , A. Lahiri , N. C. Das:** “Dynamic problem in 3D thermoelastic half-space with rotation in context of G-N type II and type III”, *Mathematical Models in Engineering*, Vol. 3, Issue 1, 58-70, <https://doi.org/10.21595/mme.2017.18143>

Prof. Alaka Das

H. Mondal, A. Das, and K. Kumar, “Onset of oscillatory Rayleigh-Bénard magnetoconvection with rigid horizontal boundaries”, *Physics of Plasmas* 25, 012119 (2018).

Prof. Anup Bandyopadhyay

1. Sandip Dalui, Anup Bandyopadhyay, and K. P. Das, “Modulational instability of ion acoustic waves in a multi-species collisionless unmagnetized plasma consisting of nonthermal and isothermal electrons”, *Phys. Plasmas* 24, 042305 (2017).
2. Sankirtan Sardar, Anup Bandyopadhyay, and K. P. Das, “Existence and stability of alternative dust ion acoustic solitary waves in a dusty plasma consisting of nonthermal electrons having vortex-like velocity distribution”, *Phys. Plasmas* 24, 063705 (2017).
3. Sandip Dalui, Anup Bandyopadhyay, and K. P. Das, “Modulational instability of ion acoustic waves in a multi-species collisionless magnetized plasma consisting of nonthermal and isothermal electrons”, *Phys. Plasmas* 24, 102310 (2017).
4. A Paul and A Bandyopadhyay, “Ion acoustic solitons, double layers and supersolitons in a collisionless unmagnetized plasma consisting of nonthermal electrons and isothermal positrons”, *Indian J Phys.* 92, 1187 (2018).
5. Debdatta Debnath, Anup Bandyopadhyay, and K. P. Das, “Ion acoustic solitary structures in a magnetized nonthermal dusty plasma”, *Phys. Plasmas* 25, 033704 (2018).

Prof. Arindam Bhattacharyya

1. Pahan, Sampa; Pal, Buddhadev; **Bhattacharyya, Arindam** ”Characterization on a non-flat Riemannian manifold.” *Proc. Nat. Acad. Sci. India Sect. A* 88 (2018), no. 1, 41–47.
2. Dey, Santu; Pal, Buddhadev; **Bhattacharyya, Arindam**, ”Regularization of heptahedra using geometric element transformation method.” *Eur. J. Pure Appl. Math.* 11 (2018), no. 1, 315–330.
3. Basu, Nirabhra; **Bhattacharyya, Arindam**; Dutta, Tamalika ”Almost conformal Ricci soliton and η -Ricci soliton on 3-dimensional (ϵ, δ) trans-Sasakian manifold.” *Bull. Transilv. Univ. Braşov Ser. III* 10(59) (2017), no. 2, 13–30.
4. Debnath, Dipankar; **Bhattacharyya, Arindam**, ”Characterization on N(k)-mixed quasi-Einstein manifold.” *Tamsui Oxf. J. Inf. Math. Sci.* 31 (2017), no. 2, 93–103.
5. Dey, S.; **Bhattacharyya, A.** ”Conformal mappings of mixed generalized quasi-Einstein manifolds admitting special vector fields.” *Extracta Math.* 32 (2017), no. 2, 255–273.
6. Sampa Pahan, Buddhadev Pal and **Arindam Bhattacharyya**, “On Einstein warped products with a quarter-symmetric connection”, *International Journal of Geometric Methods in Modern Physics*, Vol. 14, No. 4 (2017) 1750050 (15 pages).
7. Sampa Pahan, Buddhadev Pal and **Arindam Bhattacharyya**, “Multiply warped products on quasi-Einstein manifolds with a semi-symmetric non-metric connection”, *Acta Mathematica Academiae Paedagogicae Nyregyhaziensis*, **33** (2017), 103-114.
8. Sampa Pahan, Buddhadev Pal and **Arindam Bhattacharyya**, “Multiply warped products on quasi-Einstein manifolds with a semi-symmetric metric connection”, *Analele Universitatii Oradea Fasc. Matematica*, Tom XXIV (2017), Issue No. 1, 171-183.

Prof. Bibhas C. Giri

1. **B.C. Giri**, C. Mondal, T. Maiti. Analysing a closed-loop supply chain with selling price, warranty period and green sensitive consumer demand under revenue sharing contract, *Journal of Cleaner Production* 190 (2018) 822-837.

2. **B.C. Giri**, C.H. Glock, A closed-loop supply chain with stochastic product returns and worker experience under learning and forgetting, *International Journal of Production Research* 55 (2017) 6760-6778.
3. **B.C. Giri**, S. Bardhan, Sub-supply chain coordination in a three-layer chain under demand uncertainty and random yield in production, *International Journal of Production Economics* 191 (2017) 66-73.
4. **B.C. Giri**, A. Chakraborty, T. Maiti, Consignment stock policy with unequal shipments and process unreliability for a two-level supply chain, *International Journal of Production Research* (2017) 55(9) 2489-2505.
5. **B.C. Giri**, B. Roy, T. Maiti, Multi-manufacturer pricing and quality management strategies in the presence of brand differentiation and return policy. *Computers and Industrial Engineering* 105 (2017) 146-157.
6. T. Maiti, **B.C. Giri**, Two-way product recovery in a closed-loop supply chain with variable markup under price and quality dependent demand, *International Journal of Production Economics* 183 (2017) 259-272.
7. **B.C. Giri**, B. Sarker, Improving performance by coordinating a supply chain with third party logistics outsourcing under production disruption. *Computers and Industrial Engineering* 103 (2017) 168-177.
8. T. Maiti, **B.C. Giri**, Two-period pricing and decision strategies in a two-echelon supply chain under price-dependent demand, *Applied Mathematical Modelling* 42 (2017) 655-674.
9. **B.C. Giri**, A. Chakraborty, T. Maiti, Pricing and return product collection decisions in a closed loop supply chain with dual-channel in both forward and reverse logistics. *Journal of Manufacturing Systems* 42 (2017) 104-123.
10. **B.C. Giri**, A. Chakraborty, T. Maiti, Effectiveness of consignment stock policy in a three-level supply chain, *Operational Research* 17(1) (2017) 39-66.
11. **B.C. Giri**, B. Roy, T. Maiti, Coordinating a three-echelon supply chain under price and quality dependent demand with sub-supply chain and RFM strategies, *Applied Mathematical Modelling* 52 (2017) 747-769.
12. P. Biswas, S. Pramanik, **B.C. Giri**, Hybrid vector similarity measures and their applications to multi-attribute decision making under Neutrosophic environment, *Neutral Computing and Applications* 28(5) (2017) 1163-1176.

Prof. Buddhadev Sau

1. Saha Ananya, Mukhopadhyaya Srabani, **Sau Buddhadeb**, “A Taxonomy on Rigidity of Graphs”, *Indian Journal of Science and Technology*, Aug, 2017, DOI:10.17485/ijst/2017/v10i32/110638.
2. Saha & **B. Sau**: “Network Localization by Non-Convex Optimization”, *Proceedings of ACM MobiwareHN17 Workshop held in conjunction with 18th Mobihoc 2017, Chennai, India, July, 2017*, DOI: 10.1145/3083201.3088206.

Prof. Dipak Kesh

1. Maji C., **Kesh D.**, Mukherjee D. (2017), “The Effect of Predator Density Dependent Transmission Rate in an Eco-Epidemic Model”, *Differential Equations and Dynamical Systems*, 1-15, <https://doi.org/10.1007/s12591-016-0342-6> .

2. Maji C., **Kesh D.**, Mukherjee D. (2017) “Persistence and global stability of a Leslie-Gower predator-prey refuge system with a competitor for the prey”, *Communications in Mathematical Biology and Neuroscience*, DOI: 10.28919/cmbn/3382
3. Maji C., Mukherjee D., **Kesh D.** (2018) “The Effect of Predator Density Dependent Transmission Rate in an Eco-Epidemic Model”, *Journal of Biological Physics, Mar; 44(1):17-36.*

Prof. Farook Rahman

1. Kimet Jusuû, **Farook Rahaman**, A Banerjee; “Semiclassical gravitational effects on the gravitational lensing in the spacetime of topological defects” *Annals of Physics*, 389, 219-233 (2018)
2. K N Singh, P. Bhar, **Farook Rahaman**, N Pant; “Effect of electric charge on anisotropic compact stars in conformally symmetric spacetime” *Journal of Physics Communications*, 2, 015002 (2018)
3. F Ahmed, **Farook Rahaman**; “Gravitational collapse in a cylindrically symmetric vacuum spacetime and the naked singularity” *Eur.Phys.J.A* , 54, 52 (2018)
4. N Paul, S S De, **Farook Rahaman**; “Cosmological solutions and finite time singularities in Finslerian geometry” *Mod.Phys.Lett.A* , 33, 1850046 (2018)
5. A Sepehri, A Pradhan, **Farook Rahaman**, R Pincak; “Quarkonium in a thermal BIon” *Can.J.Phys.* 999, 1 (2018)
6. P Bhar, T Manna, **Farook Rahaman**, A Banerjee; “Dark energy stars: stable configurations” *Can.J.Phys.*, 96, 594 (2018)
7. D Deb, S R Chowdhury, S Ray, **Farook Rahaman**, B K Guha; “Relativistic model for anisotropic strange stars” *Annals of Physics*, 387, 239 (2017)
8. P Bhar, K N Singh, N Sarkar, **Farook Rahaman**; A Comparative study on generalized model of anisotropic compact star satisfying Karmarkar condition *Eur.Phys.J.C*, 77, 596 (2017)
9. S Maurya, Y K Gupta **Farook Rahaman**, M Rahaman, A Banerjee; “Compact stars with specific mass function” *Annals of Physics*, 385, 532 (2017)
10. A Sepehri, A Pradhan, **Farook Rahaman**, A Beesham, A F Ali, Richard Pincak; “Birth of the GUP and its effect on the entropy of the Universe in Lie-N-algebra” *Int. J. Geom. Meth. Mod. Phys.*, 14, 1750130 (2017)
11. A Sepehri, **Farook Rahaman**, S Capozziello, Ahmed Farag Ali, A Pradhan; “The evolution of Brown-York Q-L energy due to evolution of Lovelock gravity in a system of M0-branes” *Int. J. Geom. Meth. Mod. Phys.*, 14, 1750099 (2017)
12. A Sepehri, **Farook Rahaman**, S Capozziello, Ahmed Farag Ali, A Pradhan; “Cosmic space and Pauli exclusion principle in a system of M 0-branes” *Int.J.Geom.Meth.Mod.Phys.*, 14, 1750095 (2017)
13. **Farook Rahaman**, S. Maharaj, K. Chakraborty, I H Sardar; “Conformally symmetric relativistic star” *Mod. Phys. Lett. A*, 32 (08), 1750053 (2017)
14. P. Bhar, N. Pant, N. Singh, **Farook Rahaman**, Mansur Rahaman; “Conformally non-flat spacetime representing dense compact objects” *Mod. Phys. Lett. A*, 32, no.18, 1750093 (2017)
15. K. Chakraborty, **Farook Rahaman**, A Mallick; “A relativistic two-fluid model of compact stars”, *Mod. Phys. Lett. A*, 32 (10), 1750055 (2017)

16. D Shee, S Ray, **Farook Rahaman**, B K Guha; “Compact star in pseudo-spheroidal spacetime” *Astrophys. Space Sc.*, 362 (6), 114 (2017)
17. P Ghorami, K Ghosh, **Farook Rahaman**; “Non conservative mass transfer with non uniform mass accretion rate in presence of reverse flow of mass in contact binary stars” *The African Review of Physics*, 12, 0004 (2017)
18. Amit Das, Shounak Ghosh, B. K. Guha, **Farook Rahaman**, S Ray; “Gravastars in f(R,T) gravity” *Phys. Rev. D*,95, 124011 (2017)

Dr. Gopal Chandra Shit

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Prof. Kallol Paul

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Dr. Manasi Mandal

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Prof. Nandadulal Bairagi

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Prof. Prabir Kumar Kundu

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Prof. Pratulananda Das

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Prof. Sagnik Sinha

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Prof. Shamik Ghosh

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Prof. Subenoy Chakraborty

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Prof. Sudeshna Banerjea

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Prof. Sujit Kumar Sardar

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Dr. Sukhendu Kar

2. **S. Kar** & I. Dutta: “Globally Determined Ternary Semigroups”; *Asian – European Journal of Mathematics, World Scientific, Vol. 10*, No. 3 (2017), 1750038 (13 pages), DOI: 10.1142/S1793557117500383.
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10. K. Hila, S. Kar, S. Kuka & K. Naka: “Some Structure Spaces of Generalized Semirings”; *Filomat*, Accepted for Publication.

4. B. Books / Monographs Published:

Dr. Sukhendu Kar

S. Jana, S. Kar & S. Mandal: “**Mathematics for Competitive Examinations**”; Fifth Edition – 2017; Academic Publishers; ISBN 978-81-933395-8-9; Pages – 680.

Major Achievements:

Prof. Bibhas C. Giri

1. **Visiting Scholar** at the Department of Production and Supply Chain Management, Technische Universität Darmstadt, Germany May 2018–June 2018.
2. **Outstanding Paper Award** at 25th West Bengal State Science and Technology Congress 2018, 4-5 March, 2018, Science City, Kolkata, India.

Prof. Nandadulal Bairagi

Elected **Sectional President**, Mathematical Sciences (Including Statistics), **106th Indian Science Congress**.

Prof. Priti Kumar Roy

Open Arms Travel Grant Awardee in Asia-Pacific Region, **ICM 2018** by IMPA and the Brazilian Mathematical Society.

Prof. Subenoy Chakraborty

“**Honorable mention**” in 2018 **Essay Competition of Gravity Research Foundation**.

PHYSICS

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Over the time the Department of Physics has become a significant Centre of academic activities involving different branches of Physics. It has acquired distinction in research covering both theoretical and experimental Physics. It is ranked 2nd among all the Physics departments of all Indian universities (NISTADS, 2010) and ranked 11th among combined universities and research institutes (Current Science, vol. 97, no. 6 page 25, 2009) in India. It has received the following prestigious awards:

- UGC DSA II: 170 Lakhs (2014-2019)
- DST FIST II: 265 Lakhs (2012- 2017)
- DST- PURSE:

1. A. Courses Offered:

- i. B. Sc., Physics (Honours)
- ii. M. Sc., Physics (Day & Evening)
- iii. M. Sc., Electronics
- iv. Post M. Sc. Diploma in Medical Physics
- v. Ph.D.

B. Number of Faculty Members: 38

C. Research Centres/ Schools:

- i. **Condensed Matter Physics Research Centre. (CMPRC) Coordinator:** Prof. B. D. Chattopadhyay
- ii. **Nuclear & Particle Physics Research Centre. Coordinator:** Prof. Argha Deb
- iii. **Relativity and Cosmology Research Centre. Coordinator:** Dr. Abhijit Mukherjee

2. A. List of Faculty Members and their Area of Research Activity:

Sl. No.	Name	Designation	Specialization
1.	Dr. Argha Deb	Professor	Nuclear and High Energy Physics
2.	Dr. Ajay Kumar Ghosh	Professor	Condensed Matter Physics
3.	Dr. Asim Kumar Ghosh	Professor	Strongly Correlated Electrons and Magnetism
4.	Dr. Basudev Ghosh	Professor	Plasma Physics and Electronics.
5.	Dr. Brajadulal Chattopadhyay	Professor	Biophysics, Bio Concrete Technology

Annual Report 2017-18

6.	Dr. Debasish Biswas	Professor	Laser Spectroscopy, Atomic and Molecular Physics
7.	Dr. Debasish Lohar	Professor, Head of the Department	Atmospheric Physics
8.	Dr. Kalyan Kumar Chattopadhyay	Professor	Nanoscience and Technology, Semiconductors
9.	Dr. Mridul Bose	Professor	Atmospheric Physics, Plasma Physics
10.	Dr. Nabin Baran Manik	Professor	Organic Solar Cell, Low Temperature Characterisation of opto-devices, Instrumentation
11.	Dr. Ruma Ray	Professor	Experimental Condensed Matter Physics, Magnetism
12.	Dr. Sukhen Das	Professor	X-ray Crystallography (Powder diffraction), Biophysics Biological membrane), Glass and Ceramic Materials
13.	Dr. Avijit Mukherjee	Associate Professor	String Theory and Mathematical Physics
14.	Dr. Jayoti Das	Associate Professor	Gas sensing application, Porous silicon, Fabrication of Multilayer graphene thin film.
15.	Dr. Joydeep Chowdhury	Associate Professor	Molecular Spectroscopy
16.	Dr. Mitali Mandal	Associate Professor	Heavy Ion Physics Environmental Radioactivity
17.	Dr. Pabitra Kumar Paul	Associate Professor	Langmuir-Blodgett film, Molecular Professor spectroscopy
18.	Dr. Sanjay Kumar	Associate Professor	Electronics, Condensed Matter Physics (Expt), Nano-magnetism
19.	Dr. Subhankar Ray	Associate Professor	Theoretical Physics, Statistical Physics, Mathematical Physics
20.	Dr. Sulava Bhattacharyya	Associate Professor	Condensed Matter Physics
21.	Dr. Tapas Kumar Ballav	Associate Professor	Biomedical Instrumentation, Medical Modeling, Bio Physics.
22.	Dr. Sanat Karmakar	Associate Professor	Soft Condensed Matter Physics and Biophysics
23.	Dr. Partha Pratim Ray	Associate Professor	Materials Science (LB film)
24.	Dr. Subhadipta Mukhopadhyay	Associate Professor	Condensed Matter Physics, Electronics
25.	Dr. Puspendu Sahu	Associate Professor	X-ray diffraction, Electron Back Scattered Diffraction, Grain Boundary Engineering
26.	Dr. Abhijit Samanta	Assistant Professor	High Energy Physics

Annual Report 2017-18

27.	Mr. Abiral Tamang (on leave)	Assistant Professor	Biophysics, Materials Science
28.	Dr. Bharati Tudu	Assistant Professor	Magnetic materials And Magnetization dynamics, X-rayscattering (Experimental)
29.	Dr. Dhruva Banerjee	Assistant Professor	Theoretical Physics
30.	Dr. Dipankar Mandal (on lien),	Assistant Professor	Nanopiezotronics, Ferroelectric materials Energy Harvesting devices
31.	Dr. Kaustab Das	Assistant Professor	Nanoscience and Technology, Material Science
32.	Dr. Saikat Kumar Seth	Assistant Professor	X-ray Crystallography and Crystal engineering
33.	Dr. Sarmishtha Mandal	Assistant Professor	Condensed Matter Physics
34.	Dr. Sk. Saiyad Ali	Assistant Professor	Astrophysics and Cosmology
35.	Dr. Soumen Mandal	Assistant Professor	Astrophysics, Accretion processes, Gravitational wave
36.	Dr. Subrata Sarkar	Assistant Professor	Material Science

2. B. Major Research Project:

No. of the ongoing projects and project completed during 2016-2017: 21

1. **Prof. Argha Deb, PI**, “Real Time Radon Monitoring for Seismic Surveillance”, Funding agency: UGC, 5 years, Rs. 3.0 Lacs, ongoing.
2. **Prof. Asim Kumar Ghosh, PI**, “Studies on Heisenberg spin chains with Dzyaloshinskii-Moriya interaction in the presence of fields”, Funding Agency: DAE BRNS (No. 37(3)/14/16/2015/BRNS, 27.7.2015), Duration: 3 years, starting date: 3rd February, 2016. Amount: Rs. 18,75,008.00
3. **Prof. B. D. Chattopadhyay, PI** “A Study of Anti-Hyperglycemic properties of *Gymnadenia Orchidis Lindl* of Orchidaceae Family”, Funding agency: Research Society for the study of Diabetes in India (RSSDI), Duration: 2 years/ 10 Lakh.
4. **Prof. K. K. Chattopadhyay (Co-ordinator)**, DST Nanomission project in Nanoscience & Technology Synthesis of MgO-Carbon Refractory for Steel Making; Funding Agency: Steel Authority of India-RDCIS (SAIL-RDCIS); 2014-17; P.I. –Prof. K.K. Chattopadhyay, Co-Investigator: Prof. S. Mukherjee. Status – Completed (2017)
5. **Prof. K. K. Chattopadhyay** DST Nanomission project in Nanoscience & Technology for PG teaching and Research -DST- Nano Mission 2015 -2021; On-going, Prof. K.K. Chattopadhyay (P.I and Co-ordinator)
6. **Prof. K. K. Chattopadhyay** Development of wide band gap p-type transparent metal oxide chalcogenides thin films for oxide electronics; Funding Agency – DST; 2017; Prof. K.K. Chattopadhyay (P.I.) completed.
7. Dr. Mitali Mandal, Study on QGP and Its Properties Using Correlation and Fluctuation Phenomena in Ultra- relativistic Heavy Ion Collisions, DST (ongoing).
8. **Prof. S. Das, Co-PI**, Prof. P. Nandy (P.I), “Understanding the mechanism of action of Homeopathic medicine at the molecular level in nano-domains in vivo and in vitro system”

Annual Report 2017-18

Funding Agency: CCRH (File no. 17-209/2013-14/CCRH/Tech/Coll L/9), Duration: 2015-2018. Rs. 47,04,290/-

9. **Prof. S. Das (Co-PI)**, Prof. Chandan Kumar Sarkar, “High field effects and galvanomagnetic phenomena in quantum confined semiconductor structures at low lattice temperature”, Funding agency: DST (EMR/2014/000389), Duration: 2015-2018. Rs. 27,00,000/-
10. **Dr. Sanat Karmakar, PI**, “Preparation of Unilamellar vesicles and study their interaction with ions: A bio-mimetic system”, Funding agency: UGC [F. No:42/769/2013 (SR)] (01.04.2013-01.04.2017) Rs.11,58,000/-
11. **Dr. Sanat Karmakar, Co-PI**, “Studies on the influence of ion beam irradiation coupled with gamma irradiation on the behaviour of high melting thermoplastics and polymer nano-composites”, Inter-University Accelerator Centre (IUAC), UGC, Duration: 21.04.2015 (Date of joining of the JRF), 21.04.2018, One research fellow +Annual contingency of Rs. 25,000 /-
12. **Dr. Sanat Karmakar, PI**, “Studies on the interaction of antimicrobial peptide with phospholipid membranes”, DBT, Govt. of India. (BT/PR8475/BRB/10/1248/2013), Duration: 21.06.2016-21.06.2019. Rs. 43,05,000/-
13. **Dr. Bharati Tudu, PI**, “Understanding the evolution of perpendicular magnetic anisotropy and domain structures in ferromagnetic multilayer thin films”, Funding agency: SERB, Duration: 4 years (March 2017-March 2021), Rs. 53.9 Lac
14. **Dr. Partha Pratim Ray, PI**, Dr. Chandan Banerjee, IEST, Shibpur, Howrah, “Realization of high efficiency interdigitated back-contact (IBC) silicon heterojunction (SHJ) solar cells with novel front structure”, Funding agency: Solar Energy Research Initiative, DST, Govt. of India, Rs. 63,27,200/-
15. **Dr. Partha Pratim Ray**”Vacuum deposition of Fluorinated Zinc Phthalocyanine and Oligothiophene based plasmonic tandem solar cell”, Funding agency: Science and Engineering Research Board, DST, Govt. of India, Amount approved :Rs. 46,14,417/-
16. **Dr. Pabitra Kumar Paul, PI**, “Photophysical investigations of the effects of nano-clay minerals on artificial biomembrane prepared by Langmuir-Blodgett method”, Funding agency: SERB, DST, Govt. of India, Duration: 2016-2020, Rs. 32,34,000/-
17. **Dr. Pabitra Kumar Paul, PI**, “Development of New Sensor Technology for Binding of Biomolecules in Metal or Metal Oxide Nanoparticle Matrix Through Exchange of Fluorescent Dye”, Funding agency: Department of Science and Technology, Govt. of West Bengal, Kolkata, Duration: 2015-2018, Rs. 15,48,800/-.
18. **Dr. Dipankar Mandal, PI**, Fabrication of Flexible Piezoelectric Energy Harvester for Developing the Self Powering System, Funding agency: SERB, Govt. of India, Rs. 54.29 Lakhs (2014-2018).
19. **Dr. Joydeep Chowdhury, PI**, CSIR sponsored research project entitled “Fabrication of highly reproducible SERS active substrates through controlled plasmonics and their applications in ultrasensitive chemical and biological sensing” (Sanction Order No.: 03(1437)/18/EMR-II; Total outlay: 21.82 Lakh, Status: ongoing)
20. **Dr. Joydeep Chowdhury, PI**, Department of Higher Education, Science & Technology and Biotechnology, Govt. of West Bengal funded Research Project entitled “LAB ON CHIPS for trace detections of arsenic, melamine, heavy ions and in one click diagnostic

applications using SERS” (Sanction Order No.: 202 (Sanc.)/ST/P/S&T/16G-22/2017, Total outlay: 13.58 Lakh, Status: ongoing)

21. **Dr. Bharati Tudu**, Understanding the evolution of perpendicular magnetic anisotropy and domain structures in ferromagnetic multilayer thin films, DST-SERB, March 2016-2020, 53 Lakhs.

3. A. Invited Lectures Delivered/Session Chaired

Prof. K. K. Chattopadhyay

1. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the National conference entitled “Frontier areas of research and applications using electron microscopy” 16th March, 2018 at Viswabharati.
2. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the National conference entitled “Condensed Matter Days 2018” during 27-29th August, 2018 at Burdwan University.
3. Prof. K. K. Chattopadhyay Chaired a session in the National conference entitled “Condensed Matter Days 2018” during 27-29th August, 2018 at Burdwan University.
4. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the Nanotechnology Workshop on 4th August, 2018 at Kalyani University.
5. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the National conference entitled “SPECTRUM” on March 24, 2018 at St. Xaviers College, Kolkata.
6. Prof. K. K. Chattopadhyay delivered a special Invited Lecture on ‘Nano-technology for sustainable development’ at Guru Nanak Institute of Technology on the occasion of National Science Day, 28th February, 2018.
7. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the National conference entitled “SMART MATERIALS AND ITS APPLICATION IN ENGINEERING” (SMAE-2018) 12-16 February, 2018 at NIT Durgapur.
8. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the National conference entitled Biomedical Engineering in Human Welfare at Jadavpur University, on 3rd August, 2018.
9. Prof. K. K. Chattopadhyay Chaired a session in the National conference entitled “Advances in Materials Research and Simulation” at Indian Association for the Cultivation of Science, Kolkata, 25th May (2018).
10. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the in the Regional Science Congress (Southern Region) at University of Kalyani on 14th December, 2017.
11. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the National conference entitled “Recent trends in Physics: Research & Education” at RS College, 8th December, 2017.
12. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the IEEE students chapter organized entitled 2nd technical symposium on Friday, 10th of November, 2017, at Institute of Engineering and Management, Kolkata.
13. Prof. K. K. Chattopadhyay delivered a special Invited Lecture (Erudite Lecture) at CSIR-CEMRI, Durgapur on 6th November, 2017.
14. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the National Conference entitled “Recent Trends in Condensed Matter Physics (RTCMP 2017)” Bose Institute, Kolkata, 31st October – 3rd November 2017.
15. Prof. K. K. Chattopadhyay was invited for delivering an Invited Lecture in the 5th

International Conference on Advanced Nanomaterials and Nanotechnology (ICANN2017), during 18-21 December 2017, at IIT, Guwahati.

16. Prof. K. K. Chattopadhyay delivered an Invited Lecture in the International Conference entitled 'Recent Trends in Science Towards Sustainable Development', organized by the Indian Chemical Society during 6-7th August, 2018 at APC college, Kolkata.
17. Prof. K. K. Chattopadhyay delivered the Keynote Address in the National Conferences "Advances in Materials Science" during 24 - 25 April, 2017, at Guwahati University.
18. Prof. K. K. Chattopadhyay delivered an Invited Lecture at Diamond Harbour Women University on 11th July 2017.
19. Prof. K. K. Chattopadhyay delivered an Invited lecture at Ramakrishna Mission Vidyamandira, Belur Math, Platinum Jubilee Commemorative one-day (12th April, 2017) national level seminar on "Recent Advances in Materials Science".
20. Prof. K.K. Chattopadhyay delivered an Invited lecture in the National Conference entitled "Emerging Trends in Physics of Surfaces, Interfaces and Nanostructures (ET-PSIN)" at S.N. Bose National Centre for Basic Sciences (SNBNCBS), Kolkata, November 24-25 (2017).
21. Dr. Joydeep Chowdhury, "Choice of Right laser excitation is important to accomplish maximum SERS enhancement: Correlating Near-Field plasmonic response with the Far-Field SERS Spectra" in the the 90 Years of Raman Effect: Current Status and Future Direction, held on February 27 – March 02, 2018, at Indian Institute of Science (IISc), Bangalore, India.

3. B. Seminar/Work shop/Conference/Symposium Attended:

Prof. Asim Ghosh

1. Moumita Deb and Asim Kumar Ghosh; Adiabatic demagnetization of spin-1/2 antiferromagnetic J_1 - J_2 - J_3 Heisenberg hexagonal plaquette; Proceedings of Modern Trends in Condensed Matter Physics (MTCMP 2016), Academic Publishers, (2017), 78-82.
2. Susobhan Paul and Asim Kumar Ghosh; Ground state energy and spin gap for the antiferromagnetic spin-1/2 sawtooth Heisenberg model; Proceedings of Modern Trends in Condensed Matter Physics (MTCMP 2016), Academic Publishers, (2017), 93-95.

Prof. Argha Deb

3. **S. Chowdhury, C. Barman, A. Deb, D. Ghose, B. Sinha.** Soil Radon Exhalation Study in Bakreswar-Tantloi Geothermal Region of West Bengal and Jharkhand, India. 6th International Conference on Ecotoxicology and Environmental Sciences (ICEES-2018). Netaji Subhas Institute of Technology, New Delhi. 19-21 February, 2018.
4. **Javed Akhter, Arindam Kumar Naskar, Saheli Chowdhury, Mitali Mondal, Argha Deb, Lalu Das,** Study Of Air Quality Under Future Emission Scenarios, Conference on Ecotoxicology and Environmental Sciences (ICEES-2018). Netaji Subhas Institute of Technology, New Delhi. 19-21 February, 2018.
5. **Arindam Kumar Naskar, Javed Akhter, Saheli Chowdhury, Mitali Mondal, Argha Deb, Lalu Das,** Risk Assessment Of Radon In Drinking Water In & Around Susunia Hill Area, West Bengal, Conference on Ecotoxicology and Environmental Sciences (ICEES-2018). Netaji Subhas Institute of Technology, New Delhi. 19-21 February, 2018.
6. **S. Chowdhury, A. Deb, C. Barman, D. Ghose, B. Sinha.** Study of Radon Exhalation from soil in Bakreswar Thermal Spring Region of West Bengal, India. 25th West Bengal

State Science and Technology Congress, 2018. Science City Auditorium, Kolkata. 4-5 March 2018.

7. **S. Chowdhury, A. Deb, C. Barman, D. Ghose, B. Sinha.** Soil radon mapping of Bakreswar Geothermal Region of West Bengal. Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018.
8. **Arindam Kumar Naskar, Javed Akhter, Mitali Mondal, Argha Deb,** The Influence of Meteorological Parameters on Radon Levels in Soil Gas, Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018.
9. **Joyati Mondal, Mitali Mondal, Arindam Mondal, Soma Biswas Ghosh & Argha Deb,** Erratic Fluctuations in p-Pb Collisions at LHC Energy: A Monte Carlo Study , Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018.

Abiral Tamang

10. Oral presentation in the International Bio-Nano Summer School held at Hirschegg, Austria between 13–20 August 2017 titled “**On Chip Squeezing of Live Cells for Non-endocytic Quantum Dots Uptake**”.
11. Poster presentation on Quantum Dot Day 2018 held in Sheffield, United Kingdom on 24th January, 2018 titled “**CdTe/CdS quantum dots for redox sensing in live cells**”.

Dr. Bharati Tudu

12. J. Panda and B. Tudu, Hydrothermally synthesized flower like MoS₂ microsphere: A highly efficient adsorbent for methylene blue dye removal, AIP Conf. Proc. 2018, 1953, 030127, 2nd International Conference on Condensed Matter & Applied Physics (24-25 November 2017, Bikaner, India)
13. B. Mandal, J. Panda and B. Tudu, Synthesis and characterization of nanocomposite GO@ α -Fe₂O₃: Efficient material for dye removal, AIP Conf. Proc. 2018, 1953, 030173, 2nd International Conference on Condensed Matter & Applied Physics (24-25 November 2017, Bikaner, India)

Dr. Dipankar Mandal

14. S. Garain, S. Sen, K. Henkel, D. Schmeißer, D. Mandal, Enhancement of Electroactive α -phase and Superior Dielectric Properties in Cerium Based Poly(vinylidene fluoride) Composite Films, *Materials Today: Proceedings*, 2018, 5, 10084–10090.
15. W. Rahman, S. Garain, A. Sultana, T. R. Mridha, and D. Mandal, “Self-powered piezoelectric nanogenerator based on wurtzite ZnO nanoparticles for energy harvesting application”, *Materials Today: Proceedings*, 2018, 5, 9826–9830.
16. A. Sultana, Md. M. Alam, T. R. Mridha, S. Sen and D. Mandal, The preparation of g-poly(vinylidene fluoride)/ZnSn nanocomposite for energy storage application, *Materials Today: Proceedings*, 2018, 5, 10091–10096.
17. A. Sultana, T. R. Mridha, and D. Mandal, “ZnS-paper based flexible piezoelectric nanogenerator”, *AIP Conference Proceedings*, 2018, 1942, 120018.
18. W. Rahman, S. K. Ghosh, T. R. Mridha, and D. Mandal, “Enhanced mechanical energy harvesting ability of electrospun poly(vinylidene fluoride)/hectorite clay nanocomposites”, *AIP Conference Proceedings*, 2018, 1942, 050081.

19. K. Maity and D. Mandal, "The nucleation of self-poled electroactive β -phase in Eu^{3+} doped PVDF nanocomposite film for optoelectronic devices", *AIP Conference Proceedings*, 2018, 1942, 050088.
20. S. K. Ghosh, M. Xie, C. R. Bowen, P. R. Davies, D. J. Morgan and D. Mandal, "All-fiberpyroelectricnanogenerator", *AIP Conference Proceedings*, 2018, 1942, 140025.
21. Md. M. Alam and D. Mandal, "The inclusion of electroactive β -phase in Sn^{2+} incorporated PVDF composite film for improving dielectric properties and piezoelectric energy generation", *AIP Conference Proceedings*, 2018, 1942, 140057.
22. K. Roy and D. Mandal, "CdS decorated rGO containing PVDF electrospunfiber based piezoelectric nanogenerator for mechanical energy harvesting application", *AIP Conference Proceedings*, 2018, 1942, 050125.
23. P. Adhikary, S. Garain, D. Mandal. "P(VDF-HFP)/Cerium composite films with improved dielectric properties for energy storage applications", *AIP Conference Proceedings*, 2017, 1832, 040025.
24. Md. M. Alam, D. Mandal."Fabrication of lead free flexible electrospun hybrid nanofibers for designing mechanical energy harvester", *AIP Conference Proceedings*, 2017,1832, 050169.
25. Biodegradable Nanocomposites for Energy Harvesting, Self-healing and Shape memory, Smart Polymer Nanocomposites, Springer Series on Polymer and Composite Materials, ISBN: 978-3-319-50424-7. Deepu Thomas, John-John Cabibihan, Sasi Kumar, S. K. Khadheer Pasha, DipankarMandal, MeenaLaad, Bal Chandra Yadav, S. I. Patil, Anil Ghule, PayalMazumdar, Sunita Rattan, Kishor Kumar Sadasivuni, Springer 2017.

Dr. Partha Pratim Ray

26. B. Pal, S. Ray, S. Jana, S. Das, U. Gangopadhyay and P. P. Ray, Texturization of Multi Crystalline Silicon without Conventional Alkaline and Acidic Solution for Solar Cell Processing, *Materials Today: Proceedings*, 2017, 4(14), 12684-12688.
27. H. S. Das, A. Dey, P. P. Ray and R. Das, Room Temperature Deposited Transparent Conducting InZnO:Ga thin films by Non-Reactive RF-Magnetron Sputtering, *Materials Today: Proceedings*, 2017, 4, 12610-12614.
28. A. Dey, R. Jana, J. Dhar, P. Das and P. P. Ray, Gaussian Distribution of Inhomogeneous Barrier Height of Al/ZnS/ITO Schottky Barrier Diodes, *Materials Today: Proceedings*, 2018, 5(3), 9958-9964.
29. S. Sil, M. Das, J. Datta, S. Halder and P. P. Ray, Impedance Spectroscopy Study of Hydrothermally Synthesized Nano-semiconducting Bornite (Cu_5FeS_4), 2018, 5(3), 9948-9957.

Dr. Mitali Mandal

30. Javed Akhter, Arindam Kumar Naskar, Saheli Chowdhury, Mitali Mondal, Argha Deb, Lalu Das, Study Of Air Quality Under Future Emission Scenarios, Conference on Ecotoxicology and Environmental Sciences (ICEES-2018).Netaji Subhas Institute of Technology, New Delhi. 19-21 February, 2018.
31. Arindam Kumar Naskar, Javed Akhter, Saheli Chowdhury, Mitali Mondal, Argha Deb, Lalu Das, Risk Assessment Of Radon In Drinking Water In & Around Susunia Hill Area, West Bengal, Conference on Ecotoxicology and Environmental Sciences (ICEES-2018).Netaji Subhas Institute of Technology, New Delhi. 19-21 February, 2018.

Prof. K. K Chattopadhyay

32. Fabrication of Molybdenum Trioxide Nanobelts as High Performance Supercapacitor, S Pal, KK Chattopadhyay, **Materials Today: Proceedings 5** (3), 9776-9782, (2018).
33. Morphology Tailored Cobalt Oxide Nanoarchitectures Over Flexible Platform For Hazardous Organic Dye Degradation Under Visible Light, S Thakur, S Maiti, KK Chattopadhyay, **Materials Today: Proceedings 5** (3), 9749-9753, (2018).
34. Hierarchical Bi₂Se₃-Ag-rGO Micro/Nano Composite: 2D to 3D Geometry for Smart Cold Cathodes, B Das, NS Das, H Raha, D Banerjee, KK Chattopadhyay, **Materials Today: Proceedings 5** (3), 10034-10041, (2018).
35. Fabrication of all-inorganic CsPbBr₃ perovskite nanocubes for enhanced green photoluminescence, T Paul, BK Chatterjee, N Besra, S Thakur, S Sarkar, KK Chattopadhyay, **Materials Today: Proceedings 5** (1), 2234-2240(2018).
36. Hierarchical heterostructure of MoS₂ flake anchored on TiO₂ sphere for supercapacitor application, K Chanda, S Thakur, S Maiti, A Acharya, T Paul, N Besra, S Sarkar, A Das, **AIP Conference Proceedings 1953** (1), 030138, (2018).
37. Room temperature solution processed low dimensional CH₃NH₃PbI₃ NIR detector, N Besra, T Paul, PK Sarkar, S Thakur, S Sarkar, A Das, K Chanda, **AIP Conference Proceedings 1953** (1), 030210, (2018).
38. Luminescence behaviour of room temperature chemical processed all-inorganic CsPbCl₃ perovskite cubes, T Paul, BK Chatterjee, S Maiti, N Besra, S Thakur, S Sarkar, K Chanda, **AIP Conference Proceedings 1953** (1), 030085, (2018).
39. Efficient blue emission from ambient processed all-inorganic CsPbBr₂Cl perovskite cubes, T Paul, BK Chatterjee, S Maiti, N Besra, S Thakur, S Sarkar, K Chanda, **AIP Conference Proceedings 1942** (1), 120026, (2018).
40. 3D hierarchical architecture based on 1D TiO₂ nanorod and 2D MnO₂ nanoflake for high performance supercapacitor electrode, S Thakur, S Maiti, A Acharya, T Paul, N Besra, S Sarkar, **AIP Conference Proceedings 1942** (1), 140071, (2018).
41. Low dimensional CH₃NH₃PbBr₃ cubes for persistent luminescence: Energy variation of electron excitation, N Besra, T Paul, S Thakur, S Sarkar, K Sardar, K Chanda, A Das, **AIP Conference Proceedings 1942** (1), 120027, (2018).
42. En route to the conductivity bottleneck in p-type CuCr_{1-x}MxO_{2-y}S_y (M = Li, Mg), P. Mandal, N. Mazumder, A.J. Akhtar, R. Roy, K.K. Chattopadhyay, **AIP Conference Proceedings 1832** (1), 110054, (2017).
43. Facile synthesis of ZnPc nanocubes: An electron emitting material for field emission display devices, M Samanta, UK Ghorai, M Mukherjee, P Howli, KK Chattopadhyay, **AIP Conference Proceedings 1832** (1), 050032, 1, (2017).
44. Novel kite-like ZnO nano-tetrapods for sustainable environmental applications, S. Pal, S. Maiti, K.K. Chattopadhyay, **AIP Conference Proceedings 1832** (1), 050039 2 (2017).
45. Three dimensional CuO nanoflakes on flexible carbon fabric for high performance supercapacitor, P. Howli, S. Das, K. Panigrahi, M. Samanta, K.K. Chattopadhyay, **AIP Conference Proceedings 1832** (1), 050030, (2017).

46. Solution processed, organic/inorganic nanostructure based bilayer device for diode application, M. Mukherjee, M. Samanta, B. Das, U.K. Ghorai, G.P. Das, K.K. Chattopadhyay, **Devices for Integrated Circuit (DevIC)**, 2017, 281-285, (2017).
47. Sonocatalytic activity of solution processed zinc oxide nanowires: Efficient remediation of organic pollutants, M. Samanta, M. Mukherjee, U.K. Ghorai, K.K. Chattopadhyay, **Devices for Integrated Circuit (DevIC)**, 2017, 277-280, (2017).
48. Optical properties of chemically synthesized amorphous carbon nanotube and cadmium selenide quantum dot hybrid, S. Sarkar, D. Banerjee, D. Pahari, K.K. Chattopadhyay, **Devices for Integrated Circuit (DevIC)**, 527-530, (2017).

Dr. Sanat Karmakar

49. U. K. Sur, B. Ankamwar, S. Karmakar, A. Halder, P. Das, Green Synthesis of silver nanoparticles using the plant extract of Shikakai and Reetha (2018) *Materials today: proceedings*, 5 , 2321-2329.

Prof. Ruma Ray

50. S. Sarkar, N. Giri, A. Mondal and R. Ray, Facile Synthesis of Ni/NiO@GO Nanocomposites and its enhanced dielectric constant, AIP Conference Proceedings, 2018, 1953, 050016-1 - 050016-4. Accepted 25th August, 2018.
51. A. Mondal, N. Giri, S. Sarkar and R. Ray, AIP Conference Proceedings, Magnetic Properties of Zn_{1-x}Ni_xO, 1953, 2018, 120017-1 - 120017-4. Accepted 25th August, 2018.
52. N. Giri, A. Mondal, S. Sarkar and R. Ray, Structural and dielectric properties of Zn_{1-x}Al_xO nanoparticles, AIP Conference Proceedings, 1953, 2018, 050011-1 - 050011-4. Accepted 25th August, 2018.

Dr. Jayoti Das

53. Graphene Oxide based Fruit Ripeness Nose, M. Mallick, S.M. Hossain, J. Das, *Materials Today: Proceedings* 5 (2018) 9866-9870.
54. Comparison of Glucose Sensitivity of Nano and Macro Porous Silicon, T. Sarkar, D. Basu, N. Mukherjee, J. Das, *Materials Today: Proceedings* 5 (2018) 9798-9803.
55. Graphene Oxide based Ethylene Gas Sensor for e-Nose Application, M. Mallick and J. Das, *Invertis Journal of Science and Technology*, 10(4) (2017) 178-182. doi: 10.5958/2454-762X.2017.00029.4

4. A. Books/Monograph Published:

Prof. Kalyan Kumar Chattopadhyay

1. Hybrid Inorganic Organic Perovskites: A Low-Cost-Efficient Optoelectronic Material, (Chapter 5) **Perovskite Photovoltaics**, Basic to Advanced Concepts and Implementation 2018, Pages 123-162, Diptonil Banerjee and Kalyan Kumar Chattopadhyay <https://doi.org/10.1016/B978-0-12-812915-9.00005-8>
2. Diamond-like Carbon: An Efficient Cost Effective Material for Beverage Storing; Diptonil Banerjee and Kalyan Kumar Chattopadhyay *Trends in Beverage packaging*, Vol. 16 (Elsevier), 2018 (In press).

4. B. Patents

Prof. Kalyan Kumar Chattopadhyay

1. A nanomaterial including amorphous graphene and nanofluids involving the same with a base medium having significantly enhanced electrical insulation and thermal conductivity,

patent number: 201731040823, Application Number: TEMP/E1/41412 /2017-KOL. Inventors : M. Bhunia, P. Chattopadhyay, K.K. Chattopadhyay.

4. B. Articles Published in Journals:

Prof. A. Deb

1. M. Mondal, S. Biswas Ghosh, D. Ghosh, A. Deb, Forward–backward multiplicity correlations in ring like and jet like events in ^{16}O –AgBr interactions at 60 AGeV, Phys. Part. Nucl. Lett. 14 (2017) 459-464.
2. Exposure to underground radon in and around Kolkata Municipal Corporation area: an exhaustive study. Deb A., Gazi M., Bhoumik G., Naskar A., Barman C, Journal of Radioanalytical and Nuclear Chemistry, 311 (2017) pp. 375-384, DOI: 10.1007/s10967-016-5046-4
3. Study of phase transition and its dependence on target excitation using fractal properties of pionization process. Saha R., Deb A., Ghosh D. Canadian Journal of Physics, 95 (2017) pp. 699-710, DOI: 10.1139/cjp-2016-0548
4. Identification of pre-seismic anomalies of soil radon-222 signal using Hilbert–Huang transform. Chowdhury S., Deb A., Nurujjaman M., Barman C., Natural Hazards 87 (2017), pp. 1587-1606, DOI: 10.1007/s11069-017-2835-1
5. CMIP5 ensemble-based spatial rainfall projection over homogeneous zones of India, Climate Dynamics, 49 (2017), pp. 1885-1916, DOI: 10.1007/s00382-016-3409-8
6. Akhter J., Das L., Meher J.K., Deb A. Uncertainties and time of emergence of multi-model precipitation projection over homogeneous rainfall zones of India. Climate Dynamics, 50(2018), pp. 3813-3831; DOI: 10.1007/s00382-017-3847-y
7. A. Naskar, M. Gazi, C. Barman, S. Chowdhury, M. Mondal, D. Ghose, B. Singha, A. Deb, Estimation of underground water radon danger in Bakreswar and Tantloi Geothermal Region, India. Journal of Radioanalytical and Nuclear Chemistry. 315(2018) 273-283.
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Awards:

Dr. P. K. Paul & Dr. Bharati Tudu

UGC Raman Post-doctoral fellowship

Dr. D. Mandal

INSA Visiting Scientist Fellowship

Dr. Saikat Kumar Seth

SERB Overseas Postdoctoral Award

Outstanding Contribution in Reviewing, Journal of Molecular Structure (Elsevier)

Achievements of Dr. Atiskumar Chattopadhyay

Principal Secretary, Faculty Council of Science

Area of Research:

1. Pathophysiological investigation of various medicinal, herbal products by animal experimentation using histological, enzymatic and biochemical techniques.
2. Development of herbal preparation, its detailed analysis and pre-clinical study.
3. Detailed systemic toxicological investigation of the drugs and toxins, both short term and long term.

4. Synthesis and characterization of Nanocomposites for biomedical application by green synthesis.

Article Published in Journals:

1. Atiskumar Chattopadhyay, Soumendra Darbar, Srimoyee Saha, Parimal Karmakar. Effects of Alprazolam Administration on the Vital Organs of Adult Wister Albino Rats, Biochemical and Toxicological Studies. *Indian Journal of Pharmaceutical Education and Research*, Vol 52, Issue 4 [2] |, Oct-Dec, 2018.
2. Jonathan Tersur Orasugh, Nayan Ranjan Saha, Dipak Rana, Gunjan Sarkar, Md Masud Rahaman Mollick, Atiskumar Chattoapadhyay, Bhairab Chandra Mitra, Dibyendu Mondal, Swapan Kumar Ghosh, Dipankar Chattopadhyay. Jute cellulose nano-fibrils/hydroxypropylmethylcellulose nanocomposite: A novel material with potential for application in packaging and transdermal drug delivery system, *Industrial Crops and Products*, Volume 112, 633-643, 2018.
3. Soumendra Darbar, Srimoyee Saha, Kausikisankar Pramanik and Atiskumar Chattopadhyay. Preliminary Acute Oral Toxicity Study of a Newly Developed Herbal Formulation. *World Journal of Pharmaceutical Research*. 2018: Volume 7, Issue 5, 924-930.
4. Soumendra Darbar, Srimoyee Saha, Kausikisankar Pramanik and Atiskumar Chattopadhyay. Toxicological Assessment of Silver Nanoparticle Synthesized through Green Route Using *Andrographispaniculata*. *Journal of Nanoscience and Technology (JNST)* (Article in Press).

Chair in National and International Conference/Seminar

1. Chairperson, Biotechnology Session, Commemoration of 157th Birth Anniversary of Acharya Prafulla Chandra Ray and the International Symposium on Recent Advances on Molecules and Materials (RA2M-2018) on 2-3 August, 2018 at Haldia Institute of Technology, West Bengal, India.
2. Chairperson, Technical Session III, DBT & ICMR sponsored two - day national seminar on “Environmental Change: Adaptation Challenges by Sustainable Development” from 13th to 14th July, 2018. Midnapore City College, Midnapore, Paschim Medinipur, West Bengal, India

Invited Talk/Oral Talk in National and International Conference/Seminar

1. Atiskumar Chattopadhyay: Global Warming is now a Global Warning, DBT & ICMR sponsored two - day national seminar on “Environmental Change: Adaptation Challenges by Sustainable Development” from 13th to 14th July, 2018. Midnapore City College, Midnapore, Paschim Medinipur, West Bengal, India.
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3. Soumendra Darbar, Srimoyee Saha, Kausikisankar Pramanik and Atiskumar Chattopadhyay: Therapeutic potential of AgNPs coupled with andrographispaniculata chronic liver diseases in experimental murine model. THE ACADEMY–ACS (American Chemical Society) PUBLICATIONS FORUM EXPANDING FRONTIERS IN CHEMICAL SCIENCES November 1, 2018, Swatantrata Bhavan, Banaras Hindu University, Varanasi. (Oral Presentation).

Annual Report 2017-18

4. Soumendra Darbar, Srimoyee Saha, Kausikisankar Pramanik and Atiskumar Chattopadhyay: AKSS-16101 attenuate pathological changes in non-alcoholic steatohepatitis (NASH) mouse model. Indian Science Congress (ISC); Manipur University, 16-20th March, 2018. (Invited Talk).
5. Soumendra Darbar, Srimoyee Saha, Kausikisankar Pramanik and Atiskumar Chattopadhyay: Assessment of Safety Profile of a Newly Developed Herbal Formulation in Experimental Animal Models. International Chemical Congress, 8-10th March, 2018 Chitwan, Nepal. (Invited Talk).
6. Atiskumar Chattopadhyay and Soumendra Darbar: Oxidative Stress Modulation by Natural Therapy in Liver Disorders. ICMR and SERB sponsored National Symposium, 5 -6 February, 2018 Midnapore College. 2018 (Invited Talk).
7. Soumendra Darbar, Srimoyee Saha, K. Pramanik and Atiskumar Chattopadhyay. Attenuation of CCl₄-Induced Hepatic Fibrosis in Mice by Polyherbal Formulation (PHF). West Bengal State Science and Technology Congress – 2018; University of Kalyani (Oral Presentation).
8. Soumendra Darbar, Srimoyee Saha, K. Pramanik and Atiskumar Chattopadhyay. Evaluation of Anti-obesity effects of a newly developed herbal composition in high-fat-diet-induced obese mice. 6-7th April, APTICON ODISHA 2018 (Poster Presentation)

Collaborative Programmes:

Undertaking research work on biomedical application and development of herbal products with Prof. (Dr.) Dilip Kumar Nandi, Raja Narendra Lal Khan Women's College; Gope Palace, Medinipur, Vidyasagar University Road, Phulpahari, West Bengal 721102.

ADVANCED STUDIES ON INDUSTRIAL POLLUTION CONTROL ENGINEERING

Phone : 2457-2482/2698
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Projects :

1. **Project Title:** Process Intensification in concentration of Fruit juices.
Funding Agency: University Grants Commission (2015 - 18).
Principal Investigator: Prof A. Bhowal.
2. **Project Title:** Assessment and modeling on decolourization of textile effluents by sorption coupled with biodegradation in a fluidized bed bioreactor and evaluation of reactor performance.
Funding Agency: West Bengal Department of Biotechnology (2015-18).
Principal Investigator: Prof. P Das.
3. **Project Title:** Green synthesis of iron nanoparticles from manglicolous fungi of Indian Sunderban and their application in sequestration of heavy metals from contaminated water.
Funding Agency: DBT sponsored project (in collaboration with University of Calcutta and National Institute of Technology – Rourkela). (2016 -19).
Principal Investigator: Prof. P Das.
4. **Project Title:** Removal of pharmaceutical derivatives present in waste water by advanced oxidation integrating with microstructure and rotating packed bed of grapheme (G)/Graphene oxide (GO)/GO-metal nanocomposites.
Funding Agency: DST (in collaboration with IIT – Guwahati).
Principal Investigator: Prof. P Das.
5. **Project Title:** Role of carbonaceous materials and cellulose nano-fibres polymeric composite for treatment of multiple pollutants present in waste water.
Funding Agency: Dalmia Holdings group limited (2017 -19).
Principal Investigator: Prof. P Das.

Conferences:

1. S. Karmakar, **A. Bhowal**, Extraction of Hexavalent Chromium from waste water using Aliquat-336, International seminar on Solid waste management, ICONSWM 2017, 15TH- 17TH December.
2. M. Sharma, **A. Bhowal**, S. Datta, Effective concentration of sucrose solution by air stripping. Chemcon 2017, 27th – 30th December 2017.
3. S. Karmakar, **A. Bhowal**, P. Das, Reduction of Hexavalent Chromium from waste water using Vitamin C (Ascorbic Acid), Chemcon 2017, 27th – 30th December 2017.
4. P. Banerjee, A. Mukhopadhyay and **P. Das**, GO-TiO₂ nanocomposite for treatment of textile effluent. Abstract book of international conference on Current Trends in Materials Science and Engineering (CTMSE 2018), 19th – 20th January 2018, Kolkata. Pp: 105.
5. P. Banerjee, A. Mukhopadhyay and **P. Das**, Evaluation of integrated biosorption - biodegradation approach for azo dye removal. Abstract book of Workshop titled “Connecting People to Nature” to celebrate the spirit of World Environment Day, 2017, 6th June 2017, Kolkata. Pp: 19.
6. P. Banerjee, A. Mukhopadhyay and **P. Das**, Green synthesis of GO-ZnO nanocomposite and ultrasound assisted application of the same for azo dye adsorption. Abstract book of 2nd International Nanotechnology Conference and Expo (Nanotech 2017), 3rd-5th April 2017, Dubai, UAE. Pp: 35.

Annual Report 2018-19

7. P. Banerjee, A. Mukhopadhyay and **P. Das**, Graphene oxide nanocomposite for azo dye adsorption. Abstract book of National Seminar on “Recent Trends in Environmental Research”, 24th March, 2017, Kolkata. Pp: 8.
8. S.R. Barman, P. Banerjee, A. Mukhopadhyay and **P. Das**, Bioremediation of polyaromatic hydrocarbons (PAHs): Optimization with Response Surface Methodology and toxicity analysis of treated products. Abstract book of National Seminar on “Recent Trends in Environmental Research”, 24th March, 2017, Kolkata. Pp: 5.
9. P. Banerjee, A. Mukhopadhyay and **P. Das**, Ternary dye effluent treatment by integrated biodegradation-adsorption approach: optimization and toxicity analysis. Abstract book of UGC sponsored national level seminar on “Recent Advances In Biological Sciences”, 17th – 18th February, 2017, Kolkata. Pp: 60.

Publications :

1. S. Karmakar, **A. Bhowal**, P. Das, A comparative study of liquid-liquid extraction in different rotating bed contactors. Chemical Engineering and Processing - Process Intensification 132(2018) 187-193.
2. A. Sen, **A. Bhowal**, S. Datta, Comparison of Dyeing of Polyester Fibers with natural Dyes and Biomordants. Progress in Color, Colorants and Coatings 11 (2018) 165-172.
3. A. Sen, **A. Bhowal**, S. Datta, Dyeing of PTT fiber with disperse dyes using Response Surface Methodology - I. Asian Dyer 15(2) (2018) 45-48.
4. A. Sen, **A. Bhowal**, S. Datta, Dyeing of PTT fibre with disperse dyes using Response surface methodology - II. 15(3) (2018) 50-54
5. R. Gopinathan, , **A. Bhowal**, C., Garlapati. Thermodynamic study of some basic dyes adsorption from aqueous solutions on activated carbon and new correlations. Journal of Chemical Thermodynamics 107 (2017) 182-188.
6. R. Gopinathan, **A. Bhowal**, C., Garlapati. Adsorption characteristics of activated carbon for the reclamation of colored effluents containing orange G and new solid-liquid phase equilibrium model. Journal of Chemical and Engineering Data 62(2017) 558-567.
7. U. Roy, S. Sengupta, **P. Das**, **A. Bhowal**, S. Datta, Integral approach of sorption coupled with biodegradation for treatment of azo dye using *Pseudomonas* sp.: batch, toxicity, and artificial neural network. 3Biotech 8(2018) 192.
8. P. Banerjee, **P. Das**, A. Mukhopadhyay, Treatment of textile effluent using bacteria-immobilized graphene oxide nanocomposites: evaluation of effluent detoxification using *Bellamyabengalensis*. Clean Technologies and Environmental Policy, DOI: 10.1007/s10098-018-1602-7.
9. S. Manna, S. Bhattacharya, S. Sengupta, **P. Das**, Synthesis of graphene oxide dots coated biomatrices and its application for the removal of multiple pollutants present in wastewater. Journal of Cleaner Production. 10.1016/j.jclepro.2018.08.261.
10. U. Roy, S. Sengupta, P. Banerjee, **P. Das**, **A. Bhowal**, S. Datta, Assessment on the decolourization of textile dye (Reactive Yellow) using *Pseudomonas* sp. immobilized on waste materials fly ash: Response surface methodology optimization and toxicity evaluation. Journal of Environmental Management 223(2018) 185-195.
11. U. Roy, S. Sengupta, **P. Das**, **A. Bhowal**, S. Datta, “Integral approach of Sorption coupled with Bio-degradation for treatment of azo dye using *Pseudomonas* sp.: Batch, Toxicity, Artificial neural network. 3-Biotech 2018, 8: 192.

12. S. Roy, S. Sengupta, S. Manna, **P. Das**, Chemically reduced tea waste biochar and its application in treatment of fluoride containing wastewater: Batch and optimization using response surface methodology. *Process Safety and Environment Protection* 116(2018) 553-563.
13. S. Malakar, **P. Das Saha**, D. Baskaran, R. Rajamanickam , Microbial biofilter for toluene removal: Performance evaluation, transient operation and theoretical prediction of elimination capacity. *Sustainable Environment Research* 28(2018) 121-127.
14. S. Manna, **P. Saha**, D. Roy, B. Adhikari, P. Das, Fixed bed column study for water defluoridation using neem oil-phenolic resin treated plant bio-sorbent. *Journal of Environmental Management* 212 (2018) 424-432.
15. S. Manna, D. Roy, B. Adhikari, S. Thomas and **P. Das**, Biomass for water defluoridation and current understanding on biosorption mechanisms: A review. *Environmental Progress & Sustainable Energy* DOI: 10.1002/ep.12855.
16. S. Roy, S. Sengupta, S. Manna, **P. Das**, Rice husk derived silica and its application for treatment of fluoride containing wastewater: batch study and Modeling using Artificial Neural Network analysis. *Desalination and water Treatment* 105(2018)73-82.
17. V. Chakraborty, **P. Das**, P. Chaudhuri, S. Sengupta, Assessment on removal efficiency of chromium by the isolated manglicolous fungi from Indian Sundarban mangrove forest: removal and optimization using Response Surface methodology. *Environment Technology and Innovation* 10(2018) 335-344.
18. P. Banerjee, A. Mukhopadhyay, **P. Das**, 2017. Graphene oxide–nanobentonite composite sieves for enhanced desalination and dye removal, *Desalination*, <https://doi.org/10.1016/j.desal.2017.06.010> (Article in Press).
19. M. Mondal, A. Ghosh, O. N. Tiwari, K. Gayen, **P. Das**, M. K. Mandal, G. Halder, Influence of carbon sources and light intensity on biomass and lipid production of *Chlorella sorokiniana* BTA 9031 isolated from coalfield under various nutritional modes. *Energy Conversion & Management* 145 (2017) 247–254.
20. S. Roy, S. Manna, S. Sengupta, A. Ganguli, S. Gowami, **P. Das**, Comparative assessment on Defluoridation of waste water using chemical and bio-reduced graphene oxide: Batch, Thermodynamic, Kinetics and Optimization using Response Surface Methodology and Artificial Neural Network. *Process safety and Environment Protection* 111 (2017) 221-231.
21. P. Banerjee, S. Roy Barman, A. Mukhopadhyay, **P. Das**, Ultrasound assisted mixed azo dye adsorption by chitosan- graphene oxide nanocomposite. *Chemical Engineering Research & Design* 117(2017)43-56.
22. S. Roy, **P. Das**, S. Sengupta, S. Manna, Calcium impregnated activated charcoal: Optimization and efficiency for the treatment of fluoride containing solution in batch and fixed bed reactor. *Process Safety and Environment Protection*. 109 (2017) 18–29.
23. S. Goswami, P. Banerjee, S. Datta, A. Mukhopadhyay, **P. Das**, Graphene oxide nanoplatelets synthesized with carbonized agro-waste biomass as green precursor and its application for the treatment of dye rich wastewater, *Process Safety and Environment Protection*. Elsevier Publication 106(2017) 163-172.

24. P. Banerjee, S. Roy Barman, U. Roy, D. Sikder, **P. Das**, A. Mukhopadhyay, Enhanced degradation of ternary dye effluent by developed bacterial consortium with RSM optimization, ANN modeling and toxicity evaluation. *Desalination & Water Treatment* 72(2017)249-265.
25. M. Mukherjee, S. Goswami, P. Banerjee, S. Sengupta, **P. Das**, P. K. Banerjee, S. Datta, Ultrasonic assisted Graphene oxide nanosheet for the removal of phenol containing solution, *Environment Technology & Innovation*, Elsevier publication, <http://dx.doi.org/10.1016/j.eti.2016.11.006>.
26. M. Mondal, S. Goswami, A. Ghosh, G. Oinam, O. N. Tiwari, **P. Das**, K. Gayen, M. K. Mandal, G. N. Halder, Production of biodiesel from microalgae through biological carbon capture: a review. *3-Biotech* 7:99.
27. S. Roy Barman, P. Banerjee, A. Mukhopadhyay, **P. Das**, Biodegradation of acenaphthene and naphthalene by *Pseudomonas mendocina*: Process optimization, and toxicity evaluation. *Journal of Environmental Chemical Engineering*, 5(5) 4803-4812.
28. S. Malakar, **P. Das Saha**, D. Baskaran, R. Rajamanickam, Comparative study of biofiltration process for treatment of VOCs emission from petroleum refinery wastewater—A review. *Environmental Technology & Innovation* 8 (2017) 441–461.
29. S. Thakur, D. Dey, **P. Das**, P.B. Ghosh, T.K. De, Shoreline change detection using Remote Sensing in the Bakkhali Coastal Region, West Bengal, India, *Indian Journal of Geosciences* 71(4) 611-626.

AUTOMOTIVE ENGINEERING

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Director.	: Prof. Ranajit Kumar Chakrabarti
Jt. Director	: Prof. Gautam Sutradhar
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1. Areas of Research Activities :

Research on development of a new generation of Automotive Engines.

Methoding of Engine Castings.

Development of new materials to be used for different automobile components and their microstructure interpretation.

Energy economy analysis and reduction of environmental pollution in Foundries producing automobile components by modifying the existing cupolas to divided blast cupolas.

Research on preparation of sand suitable for automobile castings.

2. Major Research Projects :

- a. “R&D and Innovation Centre for Howrah Foundry Cluster” sponsored by”Technology Information Forecasting and Assessment Council (TIFAC), Department of Science and Technology, Government of India.
- b. “Modification of divided blast cupolas and Conversion of conventional cupolas into divided blast cupolas for Howrah Foundries” - a project sponsored by Technology Information Forecasting

and Assessment Council (TIFAC), Department of Science and Technology, Government of India.

3. Seminar/Workshop/ Conference/ Symposium Organized :

The R&D and Innovation Centre for Howrah Foundry Cluster building was inaugurated by Dr. Anil Kakodkar, Chairman, Technology Information Forecasting and Assessment Council (TIFAC), Department of Science & Technology (DST), Government of India, New Delhi. Eminent foundry technologist, entrepreneurs and expert members from IFA, HFA & IIF attended the inaugural function.

Seminar/workshops were organized in collaboration with IFA, HFA and IIF at Jadavpur and Howrah.

4. Major Achievements :

The project on R&D and Innovation Centre for Howrah Foundry Cluster has achieved the following major achievements.

• **Casting Simulation Laboratory**

Casting Simulation job had been completed for some major foundries in Howrah and Serampore successfully utilising facilities developed at our laboratory fully equipped with advanced solid modeling software namely ProE and casting simulation software PRO-CAST.

Advanced training on the CAD software PRO-E and casting simulation software PRO-CAST have already been imparted to the project staff for honing their skill for simulation projects.

• **Laboratories for Chemical/spectroscopic analysis, Metallurgical/ metallographic Testing**

The Nodel Centre is now fully equipped to take up the following Design and Testing Assignment:-

- 1) Metallography including In-Situ Metallography of casting at the foundry through Leica DMIL Metallurgical Microscope of German make and Apollo make In-Situ Kits.
- 2) NDT-Portable Dynamic Hardness Tester of Askib Engineers Pvt. Ltd. Make Hardness Testing Machine.
- 3) Hardness, U.T.S, Y.S. & Elongation through Fine Testing make 20 Ton UTM.
- 4) Chemical Analysis facilities using Strohein Apparatus etc.

We have served to many foundries producing quality casting in Howrah belt with our testing facilities and got good response on regular basis. This has led them to become quality conscious and as a result some foundries have installed their own Metallurgical Microscope and other testing facilities.

• **Mobile Casting Clinic**

The mobile casting Clinic, started functioning on regular basis from July 2009. The Mobile Casting Clinic is provided with sand testing equipments as well as recently installed temperature measuring device combined with carbon equivalent analyzer.

An expert also accompanies the Mobile Casting Clinic who advises the industry regarding the reasons and remedies of the routinely encountered defects. Mobile Van moves along a route predetermined route by the Foundry Association for carrying our sand testing at nominal rates. Mobile Casting Unite has received an overwhelming response from foundries indicating and justifying its timely introduction.

The Mobile Casting Clinic while on service at various foundries of Howrah Cluster carries out the following testing of sand at nominal yearly⁵⁴⁹ membership/registration fees and suggesting remedies of defects arising out of sand practice.

- Determination of Moisture Content
- Permeability Test

Annual Report 2018-19

- Mould Hardness Test
- Core Hardness Test
- Green Compressive Strength Test
- Comp actability Test
- Determination of AFS grain Fineness No.
- Determination of Total Clay Content.

The Mobile Casting Clinic has also got the following additional test facilities for the foudries-

- Carbon Equivalent, Carbon %, Silicon % and temperature measurement
- Consultancy facility also available on request

Due to introduction of mobile casting clinic Howrah Foundry Cluster is not only happy to receive the service for testing facilities, they have become conscious also to go for quality casting, and as a result many foundries now in Howrah have set up their own sand testing laboratory.

Consultancy services through Mobile Casting Clinic

Manufacture of high Phosphorous cast iron Railway brake block from cupola metal has been optimized and demonstrated in a Howrah foundry shop.

Other Activities

- **Modification of Divided Blast Cupola (DBC)**

An extended project work sponsored by TIFAC DST to the Jadavpur University deals with the proper modification of the DBCs of Howrah Foundry Cluster with an objective of energy economy by reduction of coke rate.

Out of Five numbers of foundries in Howrah for which the modification work for their existing cupolas are to be carried out under the project, three numbers namely **M/s. Dhang Iron Company, Shree Shyam Iron Foundry and Super Iron Foundry** have already been completed satisfactorily. It was found that with the modifications, the cupolas could become much more energy efficient and coke consumption could go down around 30% and with an appreciable in Spm level. The cost involved for modifications recovered by the entrepreneurs in 4/6 months time.

- **Documentary Film on Howrah Foundry Cluster-** An extended project of R &D and innovation Centre for Howrah Foundry Cluster a film highlighting the practices followed & need for improved operation and ideal foundry practices to be followed have been produced already. The dubbing of the film in Hindi as well as in Bengali have also been completed. The CD for all the above films also has been made.

Dr. Prabhat Ranjan Executive Director-TIFAC recently visited R&D Centre in connection with the project monitory committee meeting. He had highly appreciated implementation of the project and congratulated each team member of the School of Automotive Engineering, who was associated with this project. Dr. Ranjan requested Prof. Ranajit Chakrabarty, Director, School of Automotive Engineering, Jadavpur University to highlight the success story of the project with the details of background of the cluster, activities undertaken by the R&D and Innovation Centre at Jadavpur University, a report on implementation of the centre along with the audited fund utilization certificate.

The project activities of the School conducted an indepth study of the background of Howrah Foundry Cluster and also a study on the Technology Gap Analysis on the Howrah Foundry Cluster including that on Automotive Components.

It was appreciated by Technology Information, Forecasting & Assessment Council (TIFAC) that this R&D and Innovation centre and Mobile Casting Clinic has become an excellent infrastructure to address the R&D and services, needs of the foundry industry in and around Howrah. It was also acknowledged by Technology Information, Forecasting & Assessment Council (TIFAC) that such kind of R&D infrastructure was not available anywhere in the eastern part in India.

Project Achievement Highlights:

- Installation and successful running of nodal centre equipped with mechanical testing laboratory, metallographic laboratory, chemical laboratory including some sand testing facilities.
- Installation and successfully running of mobile casting clinic with revenue generation.
- Generation of awareness amongst foundry owners for setting up their own sand testing lab. And using facility of mobile casting clinic.
- Installation and successful running of casting simulation serving more than 10 foundries.
- Successful modification of divided blast cupola leading to reduction of coke consumption around 33%.
- Production of documentary film on Howrah Foundry Cluster.

Extension proposals have been submitted to TIFAC involving four modules of training programme for foundry technicians, supervisory personnel and undergraduate students of Mechanical Engineering, proposed to be conducted by the R&D and Innovation Centre with the support from TIFAC.

Technology Information, Forecasting & Assessment Council (TIFAC), Department of Science & Technology has advised that

- R&D and Innovation Centre for Howrah Foundry Cluster at the School of Automotive Engineering, Jadavpur University to prepare a detailed project completion report highlighting various project achievements.
- Unspent balance of the project towards non recurring expenditure may be utilized to meet the recurring expenditure for the project which should continue with the operation of the Nodal Centre and the Mobile Casting Clinic.
- The School of Automotive Engineering may utilize the revenue generated from the project towards meeting the project recurring expenditure for continuing the operation of the Nodal Centre and the Mobile Casting Clinic.
- TIFAC would continue to act as the knowledge partner for the “R&D and Innovation Centre” and mentor the Centre towards its planned activities in the future. TIFAC would extend technical and managerial support towards the Phase-II of the project for training and other allied programmes.

• Future Extension Projects for R&D and Innovation Centre for Howrah Foundry Cluster

I. Identification and Introduction of value added products with higher project margins for the Howrah Foundries. This is essential for the Howrah Foundries to survive.

Terms of Reference of the above work.

Annual Report 2018-19

- a) Manufacturing of value added products.
- b) Technology requirement for the products.
- c) Technology source for the products.
- d) Cost of Technology for the products.
- c) Lead time for the foundries for Technology adaptation (Switch over time).

II. Introduction of Low Cost Automation for different processes in the Foundry. The areas where such automation is required:

- a) Charging of the Cupola Furnace.
- b) Casting process used by the foundries.

Terms of Reference

- a) Manufacturing of value added products.
- b) Technology requirement for the products.
- c) Technology source for the products.
- d) Cost of Technology for the products.
- e) Lead time for the foundries for Technology adaptation (Switch over time).

III. Optimization of Cupola Design for achieving

- a) Best Combustion Rate.
- b) Highest Melt/Coke ratio.
- c) Lowest pollution.
- d) Lowest energy consumption.

For the above, the following Terms of Reference is required.

- a) Optimization of Air Blast System.
- b) Maximization of Combustion efficiency by Maximum Heat Transfer during Combustion.

A team of experts from Academic institution & Industries shall be formed for achieve the above.

BIOSCIENCE & ENGINEERING

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Director: Dr. Piyali Basak

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1. A. Courses Offered:

M.E. (Biomedical Engineering)

Duration of the course	:	2 years
Intake of students	:	11 per year
No. of Students Enrolled	:	9

1. B. Number of Faculty Members :

Professors	:	2 (2 Vacant)
Associate Professor	:	1 (Vacant)
Assistant Professor	:	3 (1 Vacant)

2. A. Area of Research Activities: (Broad Areas)

Application of various branches of Engineering towards solutions of Bio-Science and Health related problems for the benefit of mankind. Current research activities include but not limited to following:

- i. Biomedical Instrumentation including development of Biomedical Sensors and Signal Conditioning Systems. Advanced Material for High Energy Imaging Devices etc. including their applications in Design of Bio-Implants
- ii. Medical Imaging and Image Processing. Analysis and Processing of Biomedical Signals for Diagnosis and Therapy including applications involving Mathematical Modeling, Human Computer Interfacing, Artificial Intelligence, Rehabilitation Engineering etc.
- iii. Biomaterials. Development and characterization of Bio-polymers in different form include membranes, nano-particle etc. which can be used as Bioactive Coatings, wound dressing. Evaluate Bio-Degradability and Drug Delivery property of different biopolymers. Biocompatibility testing including hemo-compatibility testing, cytotoxicity testing, MTT assay etc. Tissue Engineering.
- iv. Bioremediation of industrial waste by using microbial consortium.
- v. Development of anticancer drug from natural sources.
- vi. Biomechanics related to Soft and Hard Biological Tissues, Bio-Fluids, and Application of Finite Element Methods for analysis & Design of Biomechanical Systems.

2. B. Major Research Project : (Departmental/Individual, Name of the Project/Funding Agency)

Individual–Strategic Application of Microorganisms for Decontamination of Toxic

Compounds with special reference to Azo Dyes in Industrial Waste/ WB-DBT,

PI: Dr. Piyali Basak

Individual–Evaluation of Moringa Oleifera leaf, flower, fruit extract, and its nano fabricated molecule: a comparative Study on Cancer cell line/ WB-DST, PI: Dr. Piyali Basak

Individual–UGC Sponsored Major Research Project, “Studies and Applications of II-VI Compound Based Semiconducting Devices” Completed in 2017

3. A. Invited Lectures Delivered/Sessions Chaired: (Name of the Teacher–Type of Participants–Name of the Seminar / Conference etc.–Place–Duration)

1. **Dr. Piyali Basak**, Invited Talk, National Conference “Multifacet Paradigm of Textile Industry and Research (TEXCON-2018)” Shri Vaishnav Institute of Textile Technology, Indore, M.P., India; 9th – 10th March 2018.

2. **Dr. Piyali Basak**, Invited Talk, National Conference on “International Conference on Advanced Engineering Functional Materials” (ICAEFM-2017) Gandhi Institute of Technological Advancement (GITA), Bhubaneswar, Odisha India; 21st – 23rd September 2017.
 3. **Dr. Monisha Chakraborty**, **Section Editor** of Reference Module in Materials Science and Materials Engineering. Oxford: **Elsevier**
 4. **Dr. Monisha Chakraborty**, **Review Editor** of Reference Module in Materials Science and Materials Engineering. Oxford: **Elsevier**
 5. **Dr. Monisha Chakraborty**, **Invited National Organizing Committee Member for the International Conference**, Advances in Materials and Processing Technologies Conference (AMPT) 2017, held in Chennai
 6. **Dr. Monisha Chakraborty**, **Invited International Member for the International Conference** Advances in Materials and Processing Technologies Conference (AMPT) 2018 held in Dublin, Ireland
 7. **Dr. Monisha Chakraborty**, **Chaired two Technical Sessions in the International Conference** Advances in Materials and Processing Technologies Conference (AMPT) 2018 held in Dublin, Ireland
- 3. B. Seminar/Workshop/Conference/Symposium Attended: (Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)**
- I. International Conferences**
1. **Piyali Basak**, Pre-ictal epileptic seizure prediction based on ECG signal analysis, I2CT (2017 2nd International Conference for Convergence of Technology), Hotel Crowne Plaza, Pune, Maharashtra, India, 7th April 2017-9th April 2017.
 2. **Piyali Basak**, White light interferometry on human blood film using white light emitting diode, I2CT (2017 2nd International Conference for Convergence of Technology), Hotel Crowne Plaza, Pune, Maharashtra, India, 7 to 9 April 2017.
 3. Guha Ray P, Pal P, Dhara S, **Basak P**, Roy S, “Fabrication of a Bilayered Scaffold comprising Gelatin/PolycaprolactoneNanofiberElectrospun on Microfibrous Eggshell Membrane for Wound Healing Applications”, TERMIS 2017, Davos, Switzerland, June 26 - June 30 2017.
 4. Sayanti Guha, Tarak Das, **Piyali Basak**, White Diabetes Susceptibility detection with age using heart rate variability, I2CT (2017 2nd International Conference for Convergence of Technology), Hotel Crowne Plaza, Pune, Maharashtra, India, 7 to 9 April 2017.
 5. Piyali Basak, “Study and Characterization of Bio-Active glass coating composite with and without Hydroxyapatite on Titanium and SS316L to regenerate supporting bony growth to established better bonding and stability “, ICAEFM 2017, Bhubaneswar, 21st – 23rd , Sep 2017
 6. Piyali Basak, “ Green Synthesis and Characterization of Gelatin-PVA Silver Nanocomposite Films for Improved Antimicrobial Activity “, ICAEFM 2017, Bhubaneswar, 21st – 23rd , Sep 2017
 7. Piyali Basak, “Potential Therapeutic Activity of Bio-Synthesized Silver Nanoparticles as Anticancer and Antimicrobial Agent “, ICAEFM 2017, Bhubaneswar, 21st – 23rd , Sep 2017

8. Piyali Basak, “Comparative analysis of antibacterial effect of curcumin extracts using different solvents “, ICAEFM 2017, Bhubaneswar, 21st – 23rd , Sep 2017
 9. Piyali Basak, “Synthesis and Characterisation of Gelatin-PVA/Hydroxyapatite (HAP) Composite for Medical Applications “, ICAEFM 2017, Bhubaneswar, 21st – 23rd , Sep 2017
 10. Piyali Basak, “An Approach to Make Effluents Environmentally Acceptable Using Different Micro Organisms”, ICAEFM 2017, Bhubaneswar, 21st – 23rd , Sep 2017
 11. Basu A., Sarkar A., **Basak P.** Immunoinformatics based study of T cell epitopes in Zea m 1 pollen allergen. In International Seminar on Frontiers in Biological Sciences (FIBS) organized by Department of Microbiology St. Xavier’s College, Kolkata on 30th January, 2018
 12. Basu A., Sarkar A., **Basak P.** In Silico Study of Plant Protein Expansin. In International Conference on Emerging Technologies in Data Mining and Information Security organized by School of Information Technology (IEM Group), India on 23-25 February, 2018
 13. Rania Indu, Anjan Adhikari, **Piyali Basak**, Tapas Kumar Sur, Anup Kumar Das. “Evaluation of Drug-Drug Interaction on Concomitant Administration of Anti-diabetics and Hypolipidemics”, 2nd International Conference on Biotechnology & Biological Sciences, BIOSPECTRUM 2018, Kolkata, 27th-28th July 2018.
 14. Rania Indu, Anjan Adhikari, **Piyali Basak**, Tapas Kumar Sur, Satyabrata Samadder, Anup Kumar Das. “Evaluation of Drug-Drug Interaction Using *In Vitro* Methods”, 7th Annual International Conference & Exhibition, Society Pharmaceutical Education & Research [SPER] Times 2018, Chennai, 23rd- 24th February 2018.
 15. Nilotpol Das and Monisha Chakraborty, “Performance analysis of FIR and IIR filters for ECG signal denoising based on SNR”, 2017 Third **International IEEE Conference** on Research in Computational Intelligence and Communication Networks
 16. Rituparna Acharya, Monisha Chakraborty and Jui Chakraborty, “Prospective treatment of Alzheimer’s disease using SiRNA layered double hydroxide nano conjugate”, **International Conference on Current trends in Materials Science & Engineering**, organized by Institute of Engineering and management Kolkata and S. N. Bose National Centre for Basic Sciences, Kolkata, 2018
 17. Debanjan Parbat and Monisha Chakraborty, Multi-Scale Entropy Analysis of surface Electromyography signals during biceps muscle contraction under varying loads, published in the Computational Science Symposium 2017 Department of Computational and Data Sciences **Indian Institute of Science (IISc), Bangalore, India, 2017.**
 18. Monisha Chakraborty and Debanjan Parbat, Fractals, Chaos and Entropy analysis to obtain Parametric Features of surface Electromyography signals during Dynamic Contraction of Biceps Muscles under Varying Load, published in **IEEE Sponsored 2nd International Conference for Convergence in Technology (I2CT)**, Pune, India, 2017
4. **A. Books/Monographs etc. Published: (Name of the Teacher, Name of the Book, Name of the Publisher)**
1. Monisha Chakraborty and M. S. J. Hashmi, “An Overview of Biosensors and Devices”, Reference Module in Materials Science and Materials Engineering. Oxford: **Elsevier**; 2017

Annual Report 2018-19

2. P. Murphy, D. Munshi P.A. Kurian, A. Lakhtakia, R.V. Bartlett and Monisha Chakraborty, "Nanotechnology, Society and Environment", Reference Module in Materials Science and Materials Engineering. Oxford: **Elsevier**; 2017
 3. Monisha Chakraborty and M. S. J. Hashmi, "Graphene as a Material-An Overview of its Properties and Characteristics and Development Potential for Practical Applications", Reference Module in Materials Science and Materials Engineering. Oxford: **Elsevier**; 2018
 4. Monisha Chakraborty and M. S. J. Hashmi, "Potential of Graphene for Miniature Sensors and Conducting Devices for Biomedical Applications", Reference Module in Materials Science and Materials Engineering. Oxford: **Elsevier**; 2018
 5. Monisha Chakraborty and M. S. J. Hashmi, "Cadmium Telluride and Cadmium Zinc Telluride as Detector Materials and Their Practical Applications" Reference Module in Materials Science and Materials Engineering. Oxford: **Elsevier**; 2018
 6. S Biswas, A Bhattacharya, P Basak, "Effect of Tannery Effluent on Germination and Early Seedling Growth of *Oryza sativa* Var. IET-4786" in Utilization and Management of Bioresources, 243-251. Publisher: Springer, Singapore
- 4. B. Articles Published in Journals:** (Including National/International & Peer-reviewed Journals)
(*Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume*)
1. Anamika Basu, Anasua Sarkar, **Piyali Basak**: Epitope-based molecular docking studies of allergenic proteins with immunoglobulin protein during type I hypersensitivity reaction. Journal of Innovations in Pharmaceutical and Biological Sciences (JIPBS); Vol 4 (4), 43-54, 2017, ISSN: 2349-2759
 2. Basu A, Sarkar A, **Basak P**. Detection of *Clavibacter Michiganensis* In Infected Tomato with The Help of Immunoinformatics Technique. International Journal of Pharmaceutical and Clinical Research 2018; 10(4): 112-116. ISSN: 0975-1556
 3. Indu R, Adhikari A, Maisnam I, **Basak P**, Sur TK, Das AK. "Polypharmacy and Comorbidity Status in the Treatment of Type 2 Diabetic Patients attending a Tertiary Care Hospital: An Observational and Questionnaire-based Study" Perspectives in Clinical Research. 2018; 9(3):139-144.
 4. Tarak Das, Sayanti Guha, **Piyali Basak**, Prediction of Inferior Zone Myocardial Infraction using Welch's Power Spectral Density Estimation and Discrete Cosine transform, IJETSRS, Publication date : 2017 Volume : 4 Issue : 1 Pages : 162-165
 5. Avik Bhattacharya, Anasua Sarkar, **Piyali Basak** Time domain multi-feature extraction and classification of human hand movements using surface EMG Publisher : IEEE Publication date : 2017/1/6 Conference : Advanced Computing and Communication Systems (ICACCS), 2017 4th International Conference on Pages : 1-5
 6. Tarak Das, Sayanti Guha, Nisha Banerjee, **Piyali Basak** Development of thermistor based low cost high sensitive respiration rate measurement system using audio software with audio input Publisher : IEEE Publication date : 2017/3/16 Conference : Biosignals, Images and Instrumentation (ICBSII), 2017 Third International Conference on Pages : 1-3
 7. Anamika Basu, Anasua Sarkar, **Piyali Basak** QSAR Model for Mast Cell Stabilizing Activity of Indolecarboxamidotetrazole Compounds on Human Basophils Publisher : Springer, Singapore

- Publication date : 2017/3/24 Conference : International Conference on Computational Intelligence, Communications, and Business Analytics Pages : 17-29
8. Amiyangshu De, Amit Konar, Amalesh Samanta, Souvik Biswas, **Piyali Basak** Publisher : IEEE Seizure prediction using low frequency EEG waves from WAG/Rij rats Authors : Publication date : 2017/4/7 Conference : Convergence in Technology (I2CT), 2017 2nd International Conference for Pages : 244-249
 9. **Piyali Basak**, Samrat Paul, Ranabir Majumder Invitro cytotoxic study of aloe vera whole leaf extract on PBMC and breast cancer cell line Publisher : IEEE Publication date : 2017/4/7 Conference : Convergence in Technology (I2CT), 2017 2nd International Conference for Pages : 124-127
 10. Poulomi Pal, Animesh Halder, Probir Kumar Sarkar, Nabarun Polley, **Piyali Basak**, Subhananda Chakrabarti, Samir Kumar Pal, Prantar Chakrabarti White light interferometry on human blood film using white light emitting diode Publication date : 2017/4/7 Conference : Convergence in Technology (I2CT), 2017 2nd International Conference for Pages : 151-154 Publisher : IEEE
 11. Arijit Ghosh, Anasua Sarkar, Tarak Das, **Piyali Basak** Pre-ictal epileptic seizure prediction based on ECG signal analysis Publisher : IEEE Publication date : 2017/4/7 Conference : Convergence in Technology (I2CT), 2017 2nd International Conference for Pages : 920-925
 12. Tarak Das, Arijit Ghosh, Sayanti Guha, **Piyali Basak** Early detection of diabetes based on skin impedance spectrogram and heart rate variability noninvasively Publisher : IEEE Publication date : 2017/4/28 Conference : Electronics, Materials Engineering and Nano-Technology (IEMENTech), 2017 1st International Conference on Pages : 1-5
 13. Tarak Das, Arijit Ghosh, Sayanti Guha, **Piyali Basak** Classification of EEG Signals for Prediction of Seizure using Multi-Feature Extraction Publisher : IEEE Publication date : 2017/4/28 Conference : Electronics, Materials Engineering and Nano-Technology (IEMENTech), 2017 1st International Conference on Pages : 1-4
 14. Poulomi Pal, Animesh Halder, Probir Kumar Sarkar, Nabarun Polley, **Piyali Basak**, Samir Kumar Pal Development of a Fiber Optic Sensor for Online Monitoring of Thin Coatings Journal : ADBU Journal of Engineering Technology Publication date : 2017/6/30 Volume : 6 Issue : 1
 15. Purbanka Pahari, **Piyali Basak**, Anasua Sarkar Biomarker detection on Pancreatic cancer dataset using entropy based spectral clustering Publisher : IEEE Publication date : 2017/11/3 Conference : Research in Computational Intelligence and Communication Networks (ICRCICN), 2017 Third International Conference on Pages : 208-212
 16. Anamika Basu, Anasua Sarkar, **Piyali Basak**, Nutraceuticals for Human Health and Hypersensitivity Reaction Journal : Nutraceuticals and Innovative Food Products for Healthy Living and Preventive Care Publication date 2017/11/30 Pages 323 Publisher IGI Global
 17. P Guha Ray, P Pal, S Dhara, **P Basak** Eggshell Membrane Reinforced with Chitosan/poly (vinyl alcohol) electrospun Nanofibers to fabricate a Bi-layered scaffold for Wound Healing Applications Publisher : MARY ANN LIEBERT, INC Publication date : 2017/12/1 Conference : TISSUE ENGINEERING PART A Volume 23 Pages S75-S75
 18. Monisha Chakraborty and Sugata Bhattacharyya, "Air-annealed growth and characterization of $Cd_{1-x}Zn_xTe$ thin films grown from CdTe/ZnTe/CdTe multi-stacks", **Vacuum, Elsevier**, 149 (2018) 156-167.

19. Monisha Chakraborty and Dipak Ghosh, “Quantitative Assessment of Arrhythmia Using Non-linear Approach: A Non-invasive Prognostic Tool” **Journal of The Institution of Engineers (India): Series B**, , 99(2), 167-172, DOI: 10.1007/s40031-017-0307-3, **Springer**, (2017)
20. Monisha Chakraborty and M.S.J.Hashmi, “International Research Effort on Graphene over the Past 10 Years”,**Advances in Materials and Processing Technologies**, DOI:10.1080/2374068X.2017.1410755, **Taylor & Francis**, (2017)
21. Monisha Chakraborty and M.S.J.Hashmi, “Wonder Material Graphene: Properties, Synthesis and Practical Applications”, **Advances in Materials and Processing Technologies, Taylor & Francis**, (2017)
22. Sayantani Basu and Monisha Chakraborty, “OCT Image Classification Model using hybrid filters and convolutional neural networks”, **International Journal of Emerging Technology and Advanced Engineering**, (2018)
23. Moumita Pal and Monisha Chakraborty, “Synthesis of Training Dataset For Artificial Neural Network for Diagnosing Schizophrenia”, **International Journal of Computer Engineering and Applications**, (2017)
24. Moumita Pal and Monisha Chakraborty, “Observation on Training Neural Network for Diagnosing Schizophrenia”, **International Journal of Advanced Research in Computer Science**, (2018)
25. Moumita Pal and Monisha Chakraborty, “Fuzzy Based System for Diagnosing Schizophrenia”, **International Journal of Engineering Science and Technology (IJEST)** (2018)
26. Moumita Pal and Monisha Chakraborty, “Choice of Support Vector Machine Kernel for Classifying Schizophrenia Data”, **International Journal of Computer Science & Information Technology Research Excellence** (2018)
27. Moumita Pal and Monisha Chakraborty, “Fuzzy Clustering For Diagnosing Schizophrenia”, **International Journal of Computer Engineering and Applications**, (2018)
28. Monisha Chakraborty, “Fragrance as a Source of Well-Being: Fractal Study Using ECG Time Series”,**International Journal of Advanced Research in Computer Science**, (2018)
29. Monisha Chakraborty, “Meditation as Therapy: Fractal Study Using ECG Time Series”, **International Journal of Advanced Research in Computer Science**, (2018)
30. Monisha Chakraborty, “Effect of Chi Meditation on Heart rate Oscillations: Fractal Study” **International Journal of Engineering Research and Applications** (2018)
31. Gourango Bala, Debanjan Parbat and Monisha Chakraborty, “HRV Parameters As A Bio-Marker Of Preterm Infant And Normal Sinus Rhythm ECG”, **International Journal of Computer Engineering and Applications**, (2018)

5. Collaborative Programmes:

Research Collaboration with:

1. Zoology Department, Burdwan University
2. Dublin City University, Ireland
3. IIT Dhanbad
4. Dept. of Veterinary Surgery & Radiology, W.B. University of Animal & Fishery Sc.

Annual Report 2018-19

5. CSIR-CGCRI
6. C.V. Raman Centre for Physics and Music, Jadavpur University
7. Department of Mechanical Engineering, Jadavpur University
8. School of Energy Studies Jadavpur University
9. Computer Science Department, Jadavpur University
10. Pharmaceutical Technology, Jadavpur University
11. Life Science & Biotechnology, Jadavpur University

6. Major Achievements:

School of Bioscience and Engineering and IEEE EMBS student chapter (Jadavpur University)(chapter head Piyali basak of SBSE, JU) successfully organized three invited talks

1. “Recent Trends on Designing Patient-Specific Implant” by Dr. Amit Roy Chowdhury, HOD Center for Healthcare Science and Technology, IEST Shibpur. on 18th September 2017.
2. “On Ramanujan’s mathematics and its possible applications to applied sciences” by Dr. M. P. Chaudhary, Eminent Mathematician, on 21st December 2017.
3. “Exploring the Potential of Membranes for Helium Separation from Natural Gas “ by Dr. UJJAL KUMAR GHOSH, Ph.D. ASSISTANT PROFESSOR. COLLEGE OF ENGINEERING QATAR UNIVERSITY, on 29th January 2018

Existing Faculty Members (Arts, Engg. and Tech., Science & ISLM as on 31.3.18.)

• Research Scholars Awarded :

a) Ph.D. / D.Phil. / D.Litt. Complete title of the thesis to be mentioned

	Name	Title of Thesis
1.	Priyanka Majee	Biocompatibility and Drug Release Studies of Doubly Coated Implant Material with Bioceramics and Antibiotic Loaded Bio-polymer

COGNITIVE SCIENCE

Phone : + 91-33-2414-6720

Int. : 2457-2357

Director.: Dr. Amrita Basu

E-mail : dir.cognitive@jadavpuruniversity.in

Prof. Lopamudra Choudhury

Professor, Dept. of Philosophy & School of Cognitive Science

Annual Report 2018-19

1. **Area of Research Activities:**
Diagram Logic, Cognition of the blind, Applied ethics
2. **Major Research Project:**
National Programme for Perception Engineering II, MeitY
UPE II, UGC
3. **Articles Published in Journals:**
 - Reetu Bhattacharjee, Mihir Kr. Chakraborty and Lopamudra Choudhury, Venn diagram with Names of Individuals and their Absence: a Non-Classical Diagram Logic, 12 (1-2):141-206 (2018)
 - Jim Burton, Lopamudra Choudhury and Mihir Kumar Chakraborty, A Survey and Evaluation of Diagrams for Navya- Nyaya, In book: Diagrammatic Representation and Inference, 10.1007/978-3-319-91376-6_27
 - Gem Stapleton, Lopamudra Choudhury and Mihir Chakraborty, Spider Diagrams with Absence: Inference Rules for Clutter Reduction, Journal of Visual Languages and Sentient Systems, Accepted/In press - 17 Sep 2018
4. **Collaborative Programmes:**
Collaboration with University of Brighton
5. **Major Achievements:**
Organized 2nd winter school in Diagram Logic, Feb, 2017

Prof. Amita Chatterjee

Professor Emeritus, School of Cognitive Science

1. **Area of Research Activities:**
Perception, emotion, reasoning, e-learning, History and Philosophy of Cognitive Science
2. **Major Research Project:**
1.UPE II, UGC
3. **Invited Lectures Delivered/ Sessions Chaired:**

Chaired Sudhindranath Datta Memorial Lecture delivered by Professor Sukanta Chaudhuri, organized by the Hirendranath Datta Foundation, Jadavpur University.

Delivered a lecture at Bose Institute on BCI Technology and its Ethical Implications in October 2017.

Delivered Hirendranath Datta Memorial Lecture on ‘Buddhi, Bodhi o Bigyan, organized by the Hirendranath Datta Foundation, Jadavpur University on 10 January 2018.

Delivered the keynote address on ‘ Embodied Consciousness’ at Presidency University, Kolkata in January 2018.

Delivered 6 lectures on Philosophy of Mind, Language and Cognition as a Visiting Professor in the Department of Philosophy, North Bengal University, in March 2018.
4. **Seminar/Workshop conference /Symposium Attended:**

Annual Report 2018-19

Presented a paper on 'Gender Gap in Mathematics and Science: Some Observations from the Indian Perspective' in a seminar organized at the University of Taipei, Taiwan, in November 2017, representing the International Union of the History of Science and Technology.

Delivered a lecture on 'Thought Experiments as a Method of Cognitive Science', in a conference organized by the University of Salzburg in December 2017.

Delivered a lecture on 'Do our epistemic intuitions vary across culture' in the seminar organized by the Ramakrishna Mission Institute of Culture on the occasion of 150th Birth anniversary of Sister Nivedita on Multi-cultural Philosophy, in January 2018.

Delivered a lecture on 'Ganita Dharapat o Galpa-salpa' in a national seminar entitled oMathematics and Culture II, organized by IIUST, Shibpur in January, 2018.

Delivered a lecture on 'Indian Psychology' in a workshop organized by Applied Psychology Department, Calcutta University in February 2018.

Presented a paper in the R.P.Das Centenary seminar organized by Calcutta University in February 2018.

Presented a paper on 'Communication', in a seminar organized by Alochana Chakra.

Moderated a symposium on 'Women and Glass Ceiling Effect' at the Department of Education, Loreto College, Kolkata in March 2018.

6. **Orientation Courses/Refresher Courses Attended:**

Delivered a lecture on 'How to deal with imprecision in our language' in the Orientation Course organized by the Academic Staff College, Jadavpur University.

7. **Books/Monographs etc. Published :**

Indian Philosophy and Meditation: Perspectives on Consciousness, co-authored with Rahul Banerjee, Routledge, London and New York, 2018.

8. **Articles Published in Journals:**

A review of the book, *The Scientific Status of Psychoanalysis: Evidence and Confirmation*, PushpaMisra, *Journal of Indian Academy of Applied Psychology*, vol 43, no.2, 2017.

'Roads to Mathematical Pluralism', *Journal of Indian Council of Philosophical Research*, ICPR and Springer, Vol 34.2, May, 2017.

'The Gettier Intuition from South America to Asia', co-authored with E. Machery, S. Stich et al., *Journal of Indian Council of Philosophical Research*, S ICPR and Springer, Vol 34.3, September, 2017.

"Âtmatvernânâ star", translated the paper "Layers of Selfhood", *Âtmaebangtârapar*, JitendranathMohanty, Oxford University Press, 2018.

10. **Collaborative Programmes:**

Collaborated with Stephen P. Stich, Rutgers, USA, et al. in the "Intellectual Humility and Cultural Diversity' Project, funded by John Templeton Foundation and Rutgers University, USA.

11. **Major Achievements:**

Annual Report 2018-19

Editor-in-Chief, Journal of Indian Council of Philosophical Research, ICPR and Springer (till December 2017).

Second Vice President (2016-19), Division of Logic, Methodology, Philosophy of Science and Technology, International Union of History and Philosophy of Science and Technology.

Member, Advisory Committee of SATYAM (Science and Technology in Yoga and Meditation) Project of DST.

Consultant, of the project “The Geography of Philosophy”, funded by the John Templeton Foundation (USA).

Professor Mihir Kumar Chakraborty, Visiting Professor, SCS

1. Area of Research Activities:

Modal Logic, Linear Logic, Rough Set Theory and its Logic, Fuzzy Set Theory and its Logic, Nonmonotonic Reasoning and Belief Change, Logic of Diagrams, Knowledge Representation, Applications of Philosophy of Mathematics

2. Articles Published in Journals:

Minghui Ma, Mihir Kumar Chakraborty, Covering-based rough sets and modal logics. Part II. Int. J. Approx. Reasoning 95: 113-123 (2018)

Reetu Bhattacharjee, Mihir Kumar Chakraborty, Lopamudra Choudhury, Venn Diagram with Names of Individuals and Their Absence: A Non-classical Diagram Logic. Logica Universalis 12(1-2): 141-206 (2018)

Jim Burton, Lopamudra Choudhury, Mihir K. Chakraborty, A Survey and Evaluation of Diagrams for Navya-Nyâya. Diagrams 2018: 280-295

Minghui Ma, Mihir Kumar Chakraborty, Zhe Lin, Sequent Calculi for Varieties of Topological Quasi-Boolean Algebras. IJCSR 2018: 309-322

Zhe Lin, Mihir Kumar Chakraborty, Minghui Ma, Decidability in Pre-rough Algebras: Extended Abstract. IJCSR 2018: 511-521

Mihir K. Chakraborty, Purbita Jana, Fuzzy topology via fuzzy geometric logic with graded consequence. Int. J. Approx. Reasoning 80: 334-347 (2017)

3. Major Achievements : Organised winter School of Diagrams, 2017.

CULTURAL TEXTS & RECORDS

Phone	: + 91-33-2414-6681
Int.	: 2457-2943/2631
Director.	: Prof. Amlan Das Gupta
Jt. Director	: Prof. Abhijit Gupta
E-mail	: dir.ctr@jadavpuruniversity.in

1. A. Courses Offered :

Annual Report 2018-19

Name of the Course:	Duration of the Course:	No of Students Enrolled/ completed:
PG Diploma in Digital Humanities and Cultural Informatics	I year	20
Certificate Course in Editing and Publishing	5 months	35

1. B. Number of Faculty Members :

Director: Amlan Das Gupta, Professor of English (academic details given under relevant department list)

No Permanent Staff

List of Members of Academic Committee, School of Cultural Texts and Records

1. The Vice-Chancellor, JU - Chairman
2. Professor Amlan Das Gupta Director of School and Vice-Chairman
3. Dr Abhijit Gupta, Department of English, Joint Director of School
4. Dr Samantak Das, Department of Comparative Literature, Member
5. Professor Mahidas Bhattacharya, Department of Linguistics, Member
6. Professor Moinak Biswas, Department of Film Studies, Member
7. Dr Paromita Chakravarti, Department of English, Member
8. Dr Nilanjana Deb, Department of English, Member
9. Dr Abhijit Roy, Department of Film Studies, Member
10. Shri Rajeswar Sinha, Department of Bengali, Member
11. Professor Chandan Majumdar, Department of Computer Science and Engineering, Member
12. Dr Sudip Kumar Naskar, Department of Computer Science and Engineering, Member
13. Dr Sipra Mukherjee, Department of English, West Bengal State University, Barasat (External Member)
14. Professor Ujjayan Bhattacharya, Department of History, Vidyasagar University (External Member)

2. A. Area of Research Activities : (Broad Areas)

Documentation and digitization of endangered cultural material

Electronic editing and software development

Research and training in the related fields

Strengthening collaboration among institutions with similar interests

2. B. Major Research Project :(Departmental/Individual, Name of the Project/Funding Agency)

- Departmental–2013-2019–Documentation of Cultural Texts (subgroup of CR&SS Programme) –UGC-UPE II
- Departmental–2013-continuing–Digitisation of paper records–Victoria Memorial Hall, Kolkata
- Departmental–2016-2019–Two centuries of Indian Print–British Library Endangered Archives project

6. Major Achievements:

For all details pertaining to items 3-6, please see under Departmental profiles.

EDUCATION TECHNOLOGY

Phone : +91-33-2414-6129
 Int. : 2457-2442
 Director. : Prof. Matangini Chattopadhyay
 Jt. Director : Dr. Ranjan Parekh
 E-mail : dir.edutech@jadavpuruniversity.in

1. A. Courses Offered:

Name of the Course	Duration of Course:	No. of Students Enrolled:
Master in Multimedia Development, (4-semester)	2 Years	04 09
M. Tech IT (Courseware Engineering), (4-semester)	2 Years	20
Certificate Course on Multimedia Development & Applications	6 months	Suspended
Post Graduate Diploma in Multimedia and Web Technology (Distance mode), (4-semester)	1 Year	
M.A. in Environment and Development (Distance mode)	2 Years	Suspended (Decision taken by Dept. of Economics)

1. B. Number of Faculty Members:

Sanctioned Posts :

Professor (02+01 (XIth Plan))
Associate Professor (02)
Assistant Professor (01)
Assistant Professor (On Contract) (04)
Total (10)

Existing Number of Teachers :

Professor (01)
Associate Professor (01)
Assistant Professor (0)
Assistant Professor (on contract) (02)
Total (04)

2. A. Area of Research Activities (Broad Areas)

- Education Technology
- Teaching-Learning Methodology
- Intelligent Tutorial System

- Courseware Engineering
- Computer aided Language learning
- Learning Management System
- e-Learning
- Digital Distance Education
- Quality Assurance for e-Learning
- Multimedia Content Creation Process
- Multimedia Databases and Content Based Retrieval
- Image Processing and Pattern Recognition
- Mobile Multimedia Communication
- Distributed Object Computing
- Mobile Computing
- m-Learning
- Mobile Application
- Quality Assurance for m-Learning
- Cryptography and Steganography
- Wireless Sensor Network & Wireless Security
- Web Services & Web Technology
- Risk Management and Financial Engineering
- Speech / Character Recognition

2. **B. Major Research Project** (*Departmental/Individual, Name of the Project, Funding Agency*):

- a) **Departmental / Individual:** Prof. Matangini Chattopadhyay, **Associate Coordinator**, Jadavpur University, India

Name of the Project: *Sustainable green Economies through Learning, Innovation, Networking and Knowledge exchange (gLINK)*

Funding Agency: Education Audiovisual and Culture Executive Agency under European Commission, 2014 - 2018 (4 years), the total volume of the project is EUR 3,036,625, Number of participating countries: 17

- b) **Departmental / Individual:** Prof. Matangini Chattopadhyay, **Associate Coordinator**, Jadavpur University, India

Name of the Project: *South-east-west Mobility for Advanced Research, Learning, Innovation, Networking and Knowledge (smartLINK)*

Funding Agency: Education Audiovisual and Culture Executive Agency under European Commission, 2014 - 2018 (4 years), the total volume of the project is EUR 3,049,600, Number of participating countries: 17

- c) **Departmental / Individual:** Prof. Matangini Chattopadhyay as **member**, Professor Supriya Chowdhury as Co-ordinator and Professor Sugata Hazra as Joint Co-ordinator

Name of the Project: *Enhancing Quality, Access of Undergraduate Education in India (EQUAL).*

Funding Agency: European Commission, June 2014 – June 2017, the total volume of the project is EUR 01 million, Number of participating institutes (04 from India and 02 from abroad): 06

- d) **Departmental / Individual:** Prof. Matangini Chattopadhyay as **Principal Investigator**, Professor Samar Bhattacharya and Dr. Ranjan Parekh as Co-Principal Investigators.
Name of the Project: *Design and Development of Web Based Teaching Material (Engineering) for Undergraduate and Postgraduate Laboratory.*
Funding Agency: University Grant Commission University with Potential for Excellence - Phase II, September 2012 – March 2019, the total volume of the project is Rs. 120.00 Lakh.
3. A. **Invited Lectures Delivered/Sessions Chaired:** *(Name of the Teacher, Type of Participants, Name of the Seminar/Conference etc., Place, Duration)*
- Prof. Matangini Chattopadhyay delivered lectures on **Multimedia Based Educational Content Creation** in the **Inter-disciplinary Refreshers Course on Understanding ICT for Professional Development in Education**, December 1 - 22, 2017, Department of Information Technology, Jadavpur University.
 - Dr. Saswati Mukherjee delivered lectures on **Multimedia Based Educational Content Creation** in the **Inter-disciplinary Refreshers Course on Understanding ICT for Professional Development in Education**, December 1 - 22, 2017, Department of Information Technology, Jadavpur University.
3. B. **Seminar/Workshop /Conference/Symposium Attended:** *(Name of the Teacher, Name of the Paper presented, if any, Name of the Seminar, Place, Duration) :*
- Mr. Joydeep Mukherjee attended the workshop on the use of NPTEL and other online through Swayam, held on **10th January, 2018 at K.P. Basu Memorial Hall**, Jadavpur University.
3. C. **Seminar/Workshop Conference/Symposium Organized:** *(Name of the teacher, Name of the Paper presented, if any, Name of the Seminar, Place, Duration):*
- Prof. Matangini Chattopadhyay, Half-Day Awareness Program on Multimedia Development & Applications, School of Education Technology, Jadavpur University, January 17, 2018.
 - Dr. Ranjan Parekh, Half-Day Awareness Program on Multimedia Development & Applications, School of Education Technology, Jadavpur University, January 17, 2018.
 - Dr. Saswati Mukherjee, Half-Day Awareness Program on Multimedia Development & Applications, School of Education Technology, Jadavpur University, January 17, 2018.
 - Mr. Joydeep Mukherjee, Half-Day Awareness Program on Multimedia Development & Applications, School of Education Technology, Jadavpur University, January 17, 2018
4. B. **Articles Published in Journals/Conferences** *(Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume):*
- Hindol Bhattacharya, Samiran Chattopadhyay, **Matangini Chattopadhyay**, “NS3 Based HDFS Data Placement Algorithm Evaluation Framework”, International Conference on Computer, Electrical & Communication Engineering (ICCECE), IEEE, Techno India, Salt Lake, December 22-23, 2017.
 - Hindol Bhattacharya, Samiran Chattopadhyay, **Matangini Chattopadhyay**, “Problems with Replica Placement Using Data Dependency in Scientific Cloud Workflow”, Fifth International Conference of Emerging Applications of Information Technology (EAIT), IEEE, IEST, Shibpur, January 12-13, 2018.
 - Hindol Bhattacharya, Samiran Chattopadhyay, **Matangini Chattopadhyay**, Avishek Banerjee, “Storage and Bandwidth Optimized Reliable Distributed Data Allocation Algorithm”, International

Journal of Ambient Computing and Intelligence (IJACI), IGI Global Publication, *Volume 10, Issue 1, 2019 (Notification on Dec, 2017)*.

- Chandra Das, Shilpi Bose, Samiran Chattopadhyay, **Matangini Chattopadhyay**, Alamgir Hossain, "A Bicluster-based Sequential Interpolation Imputation Method for Estimation of Missing Values in Microarray Gene Expression Data", *Current Bioinformatics*, Bentham Science, 12(2), pp. 118-130, April 1, 2017.
- Shilpi Bose, Chandra Das, **Matangini Chattopadhyay**, Kuntal Ghosh, Samiran Chattopadhyay, "An Ensemble Filtering Approach based Supervised Gene Clustering Algorithm to Identify Informative Genes to Improve Sample Classification Accuracy in Microarray Gene Expression Data", (accepted in ICCIDA 2018).
- Arnab Mitra, Anirban Kundu, **Matangini Chattopadhyay**, Samiran Chattopadhyay, "On the exploration of Equal Length Cellular Automata rules targeting a Map Reduce design in Cloud", *International Journal of Cloud Applications and Computing (IJCAC)*, IGI Global Publication Vol. 8, No. 2, pp. 1-26 2018.
- Arnab Mitra, Anirban Kundu, **Matangini Chattopadhyay**, Samiran Chattopadhyay, "A Cost-efficient One Time Password-based Authentication in Cloud Environment using Equal Length Cellular Automata", *Journal of Industrial Information Integration*, Elsevier, Vol. 5, pp. 17-25, 2017.
- J. Chaki, **R. Parekh**, S. Bhattacharya, "Plant leaf classification using multiple descriptors: A hierarchical approach", *Journal of King Saud University – Computer & Information Sciences (CIS)*, January 2018 [ISSN : 1319-1578].
- J. Chaki, **R. Parekh**, "Texture based coin recognition using multiple descriptors", in *Proc. of IEEE Int. Conf. on Computer, Electrical & Communication Engineering (ICCECE 2017)*, Dec. 22-23, 2017, Kolkata.
- M. Tiwari, S. Jana, **R. Parekh**, "An Automated System for Image Reconstruction from Distorted Image Fragments", in *Proc. of IEEE Int. Conf. on Computer, Electrical & Communication Engineering (ICCECE 2017)*, Dec. 22-23, 2017.
- S. Chakraborty, **R. Parekh**, "An Improved Approach to Open Set Text Independent Speaker Identification (OSTI-SI)", in *Proc. of 3rd IEEE Int. Conf. on Research in Computational Intelligence and Communication Networks (ICRCICN '17)*, Kolkata, India, pp. 51-56, Nov. 03-05, 2017. [ISBN : 978-1-5386-1931-5].
- Kunal Hossain, Susovan Jana, **Saswati Mukherjee**, "*Secured Transmission of Sensitive Images of Skin Diseases Using Steganography and Cryptography*", 2017 IEEE Calcutta Conference (CALCON), Kolkata, pp. 95 – 99, December 2 -3, 2017.
- Kunal Hossain, Susovan Jana, **Saswati Mukherjee**, "*A Novel Approach to Secure Biomedical Images and Videos for Transmission*", Third IEEE Conference on Research in Computational Intelligence and Communication Networks (ICRCICN-2017), IEEE, Kolkata, pp. 120 – 125, November 3 – 5, 2017.
- Upasana Maity, **Joydeep Mukherjee**, "Automated color logo recognition technique using Color and Hog features" in *International Journal of Computer Applications* , Volume 170 – No.2, July 2017 (ISSN0975 – 8887).
- Chandrima Ganguly, **Joydeep Mukherjee**, "A Proposed Student performance Appraisal System using Fuzzy Logic Reasoning Approach", "IEEE International Conference on Networks & Advances in Computational Technologies (NetACT 2017)", July 20 22, 2017.

5. Collaborative Programmes:

National:

- Strategy Academy Centre for Advanced Studies (TSACAS), Kolkata School of Education Technology, Jadavpur University (SET, JU) and the Strategy Academy Centre for Advanced Studies (TSACAS) jointly started a program titled “Post Graduate Diploma in Management and Entrepreneurship (PGDME)” through Live and two-way interactive Digital Network and it is going on successfully. The MoU has been renewed for another three years starting from June 2018.

International:

- Royal Society International Exchanges/Grant Ref: IE160609
Dr Hubert P. H. Shum, University of Northumbria, Newcastle upon Tyne, UK and Dr Matangini Chattopadhyay, Jadavpur University, India jointly submitted a project entitled “An Affective Smart Environment for Personalized Learning and Teaching” to the Royal Society International Exchanges. The Royal Society (“Funding Body”) has accepted our project proposal and has awarded us £11841 for 02 years starting from 31 March, 2017 till 30 March, 2019 to carry out collaborative research including international travel from both directions.

7. Additional Remarks:

- The EduSAT conference room of SET has been used to organize Fulbright Hays Programme for the course titled “Basic Bengali for Educators” from July 10-20, 2017.
- The Smart Classroom of SET is being utilized extensively for Recording/Editing of the course materials of e-Pathshala in the Department of Sociology under Professor Ruby Sain, funded by UGC.
- The Smart Classroom of SET is being utilized for Recording/Editing of some of the course materials of E-QUAL project, funded by European Union.
- The Smart Classroom of SET is being utilized for Recording/Editing for the project entitled “Design and Development of Web Based Teaching Materials (Engineering) for Undergraduate and Post Graduate Laboratory” under UGC UPE Phase II Scheme.
- Prof. Matangini Chattopadhyay guided Masters Degree research work of two (02) students, completed in June 2017
- Dr. Ranjan Parekh guided Masters Degree research work of four (04) students, completed in June 2017
- Dr. Ranjan Parekh and Prof. Samar Bhattacharya guided one (01) PhD student who was awarded PhD degree in December 2017
- Dr. Saswati Mukherjee guided Masters Degree research work of (01) student, completed in June 2017
- Mr. Joydeep Mukherjee guided Masters Degree research work of four (04) students, completed in June/November, 2017

ENERGY STUDIES

Int. : 2457-2907

Director.: Prof. Tushar Jash

E-mail : dir.energy@jadavpuruniversity.in

1. A. Course Offered : M.Tech. in Energy Science & Technology

1. B. No of Faculty Members: Five (5)

2. A. Area of Research Activities:

Solar PV
Solar Thermal
Bio Energy
Wind Energy
Energy Management

2. B. Major Research Projects: PURSE Phase II

Dr. Tushar Jash, Professor

List of Publications (2017-2018)

1. Paul S, Jash Tushar (2017) Biodiesel production from Indian sesame oil and the performance of a diesel engine fueled with sesame biodiesel blends. *Indian Journal of Environmental Protection* 37: 155-162.

Dr. Ratan Mondal, Associate Professor

A. Invited Lectures Delivered/Sessions Chaired:

- (i) Delivered an invited lecture on **“PV System Design & Integration Methodologies”** in the “National Training cum Skill Development Program on Solar Energy” held on 2nd May to 5th May, 2017 at School of Energy Studies, Jadavpur University, Kolkata.
- (ii) Delivered an invited lecture on **“Introduction to Non Conventional Energy & its challenges”** in an academic seminar held on dated 30th January, 2018 at Pailan Technical Campus, Kolkata – 700104.
- (iii) Delivered an invited lecture on **“Solar Photovoltaic Cells/Modules, Power Systems and its Performance Evolution”** in the AICTE sponsored three day National Seminar on “Sustainable Energy and Grid Integration of Large Scale Solar Power Generation – Design and Installation Knowhow” held on 31th January to 2nd February, 2018 at APC Hall, NSEC College Campus, Kolkata – 700152.

B. Seminar/Workshop/Conference/Symposium Attended:

- i Subhajit Mukherjee and **Ratan Mandal**, “DESIGN OF AN AUTOMATIC LOAD CONTROLLER FOR ON-GRID SOLAR PHOTOVOLTAIC POWER SYSTEM”, International Conference on Energy Options for Tomorrow: Technology to Sustainability (ICEOT 2017), Organized by Energy Engineering, The Neotia University, West Bengal, on April 17-19, 2017 at Eco Vista, Kolkata, India.
- ii RajarshiChakraborty and **Ratan Mandal**, “Design and Optimization of Conceptual Solar Thermal Steam Generator”, International Conference on Energy Options for Tomorrow: Technology to Sustainability (ICEOT 2017), Organized by Energy Engineering, The Neotia University, West Bengal, on April 17-19, 2017 at Eco Vista, Kolkata, India.
- iii KunalChowdhury, Amit Gupta and **Ratan Mandal**, “Different Aspects and Viability Study of Small Scale Grid-Tied Rooftop PV Plant”, International Conference on Energy Options for Tomorrow: Technology to Sustainability (ICEOT 2017), Organized by Energy Engineering, The Neotia University, West Bengal, on April 17-19, 2017 at Eco Vista, Kolkata, India.
- iv AnanyaChakraborty, **Ratan Mandal**, “A Novel Technique Employing DWT-Based Envelope Analysis for Detection of Power System Transients”, International Conference on Energy,

Annual Report 2018-19

Communication, Data Analytics and Soft Computing (ICECDS-2017), 1-2 Aug. 2017, Chennai, India, **IEEE Xplore**: 21 June 2018, **DOI**: [10.1109/ICECDS.2017.8390084](https://doi.org/10.1109/ICECDS.2017.8390084)

- v Kausturi Chatterjee, Soma Ray, Baishakhi Pal, Kalyan Adhikary, Utpal Gangopadhyay, **Ratan Mandal**, “A comparative study of SiO₂:TiO₂ composite and SiO₂ film by Sol-Gel method for solar cell application”, XIXth International Workshop on Physics of Semiconductor Devices: IWPSD 2017, December 11 - 15, 2017, IIT Delhi, India.
- vi Attended a Kolleg (Colloquium) on **Energy Sustainability: A Roadmap for the Future** at **Kolkata** from **February 2 - 4, 2018** organised by Humboldt Club Calcutta and presented a paper on “**Fabrication and Characterization of Nano-Structured ‘Cu₂S’ film for Solar Photovoltaic Applications**”.

E. Orientation Courses/Refresher Courses Organized:

- i One of the organizing and working committee member in “**National Training cum Skill Development Program on Solar Energy**” held on 2nd May to 5th May, 2017 at School of Energy Studies, Jadavpur University, Kolkata – 700032.

4. B.. Articles Published in Journals (2017-2018):

- i Avijit Paul and **Ratan Mandal**, “Scope and Possibilities of Copper (Cu) Based Semiconducting Materials in Optoelectronic Applications - A Review”, *Invertis Journal of Renewable Energy*, Vol. 7, No. 2, 2017 ; pp. 106-112. DOI No. : 10.5958/2454-7611.2017.00015.7
- i Madhumita Das and **Ratan Mandal**, “A comparative performance analysis of direct, with battery, supercapacitor, and battery-supercapacitor enabled photovoltaic water pumping systems using centrifugal pump”, *Solar Energy*, 171 (2018) 302–309, Elsevier publication,
- iii Rakesh Naskar, Asit Ghosh and **Ratan Mandal**, “Design and New Development of Solar Air Conditioner”, *International Journal of Scientific Research in Multidisciplinary Studies* Vol.4, Issue.6, pp.19-23, (2018), ISSN:2454-9312.

ENVIRONMENTAL STUDIES

Phone : + 91-33-2414-6147
Int. : 2457-2543/2874
Director. : Dr. Tarit Roychowdhury
E-mail : dir.environmental@jadavpuruniversity.in

1. A. Courses Offered :

- i) M.Tech in Environmental Biotechnology, Two years, 9
- ii) Diploma in Industrial Safety and Environmental Management, three semesters, 30

1. B. Number of Faculty Members : 3

2. A. Area of Research Activities :

Environmental Biotechnology, Environmental Chemistry, Environmental Microbiology, Air pollution and aerobiology, Toxic contaminants in environment and their remedies

2. B. Major Research Project :

Dr. Tarit Roychowdhury

- *Title:* Spatial distribution of uranium and associated water quality parameters in drinking and groundwater/drinking water of five districts (Nadia, Bardhaman, North Twenty four Parganas, Kolkata, Howrah) of West Bengal (Principal Investigator)
Sponsored by: Board of Research in Nuclear Science (Department of Atomic Energy), Govt. of India
Amount: Rs. 26,94,300/
- *Title:* Mobility and mechanism of fluoride leachability into the aquifer of Sonarpur-Rajpur-Baruipur belt of the bank of Adi Ganga in South 24 Parganas district, West Bengal
Sponsored by: Water & Sanitation Support Organization, Public Health Engineering Department, Govt. of West Bengal
Amount: Rs. 3,75,100/
- *Title:* Studies on chronic exposure to arsenic toxicity through food chain and drinking water with respect to rice grain contamination in selected sites of West Bengal and search for mitigation options
Sponsored by: Higher Education, Science & Technology and Biotechnology, Department of Science & Technology, Govt. of West Bengal
Amount: Rs. 25,99,600/

Dr. Joydeep Mukherjee

- *Title:* Bioremediation of polyaromatic hydrocarbons in the Sundarbans by application of phototrophic biofilms
Sponsored by: Department of Biotechnology, Government of West Bengal
Amount: Rs. 24,84,020.00/
- *Title:* Production of organic fertilizer by utilizing slaughterhouse wastes and its application for the cultivation of potato and vegetables
Sponsored by: Department of Science & Technology, Government of West Bengal
Amount: Rs. 22,99,600.00/

Dr. Subarna Bhattacharya

- *Title:* Potentiality assessment of Sericulture as a climate resilient rural livelihood in cyclone affected areas of Indian Sundarban
Sponsored by: Indian Council of Social Science Research
Amount: Rs. 2 Lakhs

3. A. Invited Lectures Delivered/Sessions Chaired:

Dr. Tarit Roychowdhury

- Groundwater arsenic-contamination with special reference to food chain in West Bengal, India: Impact, Measurement and Mitigation. **Invited Speaker: T. Roychowdhury.** National Seminar on Environmental Pollution and Control. Department of Civil Engineering, Calcutta Institute of Engineering & Management, Prasanta Sur Campus, Tollygunge, Kolkata, 21st April, 2017.
- Unscientific approach of use and misuse of water body resources: Groundwater arsenic-contamination with special reference to food chain: Impact, Measurement and Mitigation. **Invited awareness lecture** on issue related to Swachh Bharat Mission. National sample Survey Office, Survey

Design & Research Division, Ministry of Statistics & Programme Implementation, Mahalanobis Bhavan, 164, Gopal Lal Tagore Road, Kolkata-700108, 23rd June, 2017.

- Unscientific approach of use and misuse of water body resources: Groundwater arsenic-contamination with special reference to food chain: Impact, Measurement and Mitigation. **Invited lecture** series on 'Environment & Human Health', Department of Chemistry, Supreme Knowledge Foundation Group of Institutions, Mankundu, Hooghly, 14th September, 2017.

3. B. Seminar/Workshop/Conference/Symposium Attended:

Dr. Tarit Roychowdhury

- Groundwater arsenic-contamination with special reference to food chain in West Bengal, India: Impact, Measurement and Mitigation. N. Roy Chowdhury, M. Joardar, S. Bhowmick, M. Pal, A. Biswas, S. Mitra, S. Swain, R. Das, **T. Roychowdhury**. Proceedings of peer-reviewed extended abstracts. National Conference on Sustainable Advanced Technologies for Environmental Management (SATEM-2017). Department of Civil Engineering, Indian Institute of Engineering Science and Technology, Shibpur, June 28-30, 2017.
- Investigation of groundwater arsenic-contamination with special reference to food chain in West Bengal, India: Impact & Mitigation Strategies. International Seminar & Exhibition: Exploration of oil, gas, coal, minerals and groundwater – Modern Techniques and Appliances. Indian School of Mines Alumni Association, Kolkata Chapter, Swissotel, Kolkata, 7-9 February, 2018.
- Groundwater arsenic-contamination with special reference to food chain in West Bengal, India: Impact, Measurement and Remediation Strategies. National Seminar on Environmental Challenges: Assessment, Monitoring and Remediation, Department of Zoology, Patna University, Patna, 21-22 March, 2018.

Dr. Joydeep Mukherjee

Application of halophilic archaea for the production of polyhydroxyalkanoates (bioplastics), ICBE Asia (AIChE) Conference, 8-10 January, 2018, Singapore, Oral presentation

3. C. Seminar/Workshop/Conference/Symposium Organized:

Students' Seminar entitled 'Current Environmental Issues: Development in Science and Technology', dated 15th March, 2018, School of Environmental Studies, Jadavpur University.

4. B. Articles Published in Journals:

Dr. Tarit Roychowdhury

- Role of microRNAs in senescence and its contribution to peripheral neuropathy in the arsenic exposed population of West Bengal, India. D. Chatterjee, A. Bandyopadhyay, N. Sharma, S. Basu, **T. Roychowdhury**, S. S. Roy, A. K. Giri. **Environmental Pollution**(Elsevier Journal) 2018, 233, 596-603 (IF: 4.358).
- Low Arsenic Exposure Risk in Endemic Population, Cohort Study for Consecutive Years. A. Biswas, A. Das, **T. Roychowdhury**, D. N. Guha Mazumder. **Exposure & Health**(Springer Journal) 2017, 1-14 (IF: 4.85).
- Arsenic accumulation in paddy plants at different phases of pre-monsoon cultivation. N. Roy Chowdhury, R. Das, M. Joardar, S. Ghosh, S. Bhowmick, **T. Roychowdhury**. **Chemosphere**(Elsevier Journal) 2018, 210, 987-997 (IF: 4.427).

- Impact of arsenic contaminated groundwater used during domestic scale post harvesting of paddy crop in West Bengal: Arsenic partitioning in raw and parboiled whole grain. N. Roy Chowdhury, S. Ghosh, M. Joardar, D. Kar, **T. Roychowdhury**. **Chemosphere**(Elsevier Journal) 2018, 211, 173-184 (IF: 4.427).
- Spatial variability and competing dynamics of arsenic, selenium, iron and bioavailable phosphate from ground water and soil to paddy plant parts. A. Biswas, S. Biswas, A. Das, **T. Roychowdhury**. **Groundwater for Sustainable Development**(Elsevier Journal) (Accepted Manuscript, In Press).
- Variation of arsenic accumulation in paddy plant with special reference to rice grain and its additional entry during post harvesting technology. N. Roy Chowdhury, M. Joardar, S. Ghosh, S. Bhowmick, **T. Roychowdhury**. **Book: Groundwater Development – Issues and Sustainable Solutions**, Publisher: Springer (In Press).

Dr. Joydeep Mukherjee

- Production enhancement and characterization of the polyhydroxyalkanoate produced by *Natrinemaajinwuensis* (as synonym) a” *Natrinemaaltunense* strain RM-G10: RiddhiMahansaria, AnusuaDhara, Amit Saha, SaubhikHaldar, Joydeep Mukherjee: International Journal of Biological Macromolecules, 107 (Pt. B), 1480-1490, 2018 (Current IF 3.909)
- A new collagenase enzyme of the marine sponge pathogen *Pseudoalteromonasagarivorans* NW4327 is uniquely linked with a TonB dependent receptor: Sayak Bhattacharya, JayantaDebabrata Choudhury, RatanGachhui, Joydeep Mukherjee: International Journal of Biological Macromolecules, 109, 1140-1146, 2018 (Current IF 3.909)
- Effects of flask configuration on biofilm growth and metabolites of intertidal cyanobacteria isolated from a mangrove forest: MaruthanayagamVeerapathiran, Sandeep Chakraborty, SayaniMitra, SanmoyKarmakar, Joydeep Mukherjee: Journal of Applied Microbiology, 125, 190-202, 2018 (Current IF 2.160)
- Biosorption of fluoride by water lettuce (*Pistiastratiotes*) from contaminated water: SukalpaKarmakar, Joydeep Mukherjee, Somnath Mukherjee: International Journal of Environmental Science and Technology, 15, 801-810, 2018 (Current IF 2.037)
- Mathematical modelling for phytoplankton distribution in Sundarbans estuarine system, India: Tanaya Das, Saranya Chakraborti, Joydeep Mukherjee, Goutam Kumar Sen: Ecological Modelling 368, 111–120, 2018 (Current IF 2.507)

Dr. Subarna Bhattacharya

Planning research on climate change and zooplankton density and diversity in Sagar Island, Indian Sundaeban Delta: SanghamitraBasu, Chittra J, Subarna Bhattacharyya and A. K. Ghosh: Bionotes, 19: 3, September, 2017

5. Collaborative Programmes:

Dr. Tarit Roychowdhury

Climate Change Group, Earth Observatory of Singapore, Nanyang Technological University, N2-01C-36d, 50 Nanyang Avenue, Singapore 639798

6. Major Achievements:

Dr. Tarit Roychowdhury

International Research Collaborator in the project entitled ‘Anthropogenic lead in the atmosphere – Isotopes for source apportionment’, NanYang Technological University, Singapore.

Dr. Joydeep Mukherjee

Jointly offering diploma in Industrial Safety & Environmental Management with Nuvoco Vistas Corp. Ltd. (formerly Lafarge India Ltd.), Kolkata

ILLUMINATION SCIENCE, ENGINEERING & DESIGN

Phone : + 91-33-2414-6616
Int. : 2457- 2541
Director. : Sri Parthasarathi Satvaya
E-mail : dir.illumination@jadavpuruniversity.in

1. A. Course Offered:

M.Tech. in Illumination Technology and Design,
Three (03) years degree course (evening),
No. of students intake each year is twenty five (25).

1. B. Number of Faculty Members: Two (02)

2. A. Area of Research Activities

- (i) Various aspects on Museum lighting
- (ii) Failure mode analysis of Light Emitting Diode (LED)
- (iii) Design and Development of Adaptive Light Emitting Diode (LED) driver , and
- (iv) Daylight and photo voltaic potential for urban areas

3. A. Invited Lectures Delivered/Sessions Chaired: *(Name of the Teacher–Type of Participants–Name of Seminar /Conference, etc.–Place –Duration)*

- Parthasarathi Satvaya–Invited Lecture–Seminar on “Present & Future Lighting”–Jadavpur University, Kolkata–One day
- Parthasarathi Satvaya–Resource person–Skill Development Training on Electrical Installation and Safety Practices–NIELIT, Jadavpur University, Kolkata–Two days

3. B. Seminar/Workshop/Conference/Symposium Attended:

(Name of the Teacher–Name of the Paper–Name of the Seminar/Conference–Place –Duration)

- Kamalika Ghosh–Design Topology Based Comparative Study on Electric and Photometric Parameters of Commercially Available LED Lamp Systems–2nd International Conference for Convergence in Technology (I2CT)–April, 2017
- Kamalika Ghosh–Stability Analysis of a Universal LED driver –CALCON–December 2017
- Parthasarathi Satvaya–Design and Development of an Intelligent Street Lighting system using Zigbee protocol for Communication–Proceedings of the 8th Lux Pacifica, 2018–Tokyo, Japan,–March 2018

Annual Report 2018-19

- Parthasarathi Satvaya–Development of an Intelligent Security lighting system using wireless Communication technology–International Conference on New Frontiers of Engineering, Science, Management and Humanities –Hissar–February, 2018
- 4. B. Articles Published in Journals: (Name of the Teacher–Name of Article–Name of Journal–Date of Publication–Volume)**
- Kamalika Ghosh–Universal control algorithm for automatic current regulated LED driver–International Journal of Power Electronics, Inderscience Publishers–(Accepted for publication)2018
 - Parthasarathi Satvaya–Development of an Intelligent Security lighting system using wireless Communication technology–International Journal of Engineering, Technology, Science and Research–January 2018, ISSN 2394- 3386–Volume 5, Issue 1
 - Parthasarathi Satvaya–Development of A Microcontroller Based Emergency Lighting System with Smoke Detection and Mobile Communication Facilities–International Journal of Light & Engineering –(Accepted for publication) 2018

Milestones:

Façade Illumination of State Bank of India, Samriddhi Bhavan Complex, Strand Road, Kolkata was done in collaboration with Prof. Saswati Mazumdar & Suddhasatwa Chakraborty of Electrical Engineering Department and Parthasarathi Satvaya of SISED as consultants.

INTERNATIONAL RELATIONS & STRATEGIC STUDIES

Int. : 2475 2068/2229
Director. : Professor Shibashis Chatterjee
E-mail : dir.irss@jadavpuruniversity.in

1. A. Courses Offered : (Name of the Course, Duration of the Course, No of Students Enrolled)

The School has introduced multidisciplinary PhD programme from 2011-12 academic session. While the essential focus remains on the strategic and security-centric issues, the research scholars admitted to the program also work on areas of bilateral relations among states and international organizations. The School at present has 8 research scholars enrolled in the programme.

1. B. Number of Faculty Members:

The academic activities of the School are monitored by an Academic Committee whose members are drawn from different Departments spread over all the Faculties of the University. The Director is from the Department of International Relations.

2. A. Area of Research Activities: (Broad Areas)

The School has special interest in the areas of international relations and strategic studies, in foreign policy and event analysis, emerging issues and concepts of global politics.

3. B. Seminar/Workshop/Conference/Symposium Attended:

(Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration) Information is available under the Department of International Relations.

3. C. Seminar/Workshop/Conference/Symposium Organized:

(Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

- Hosted a Roundtable with Prof. Muchkund Dubey on the ‘Strategic Challenges for Indian Foreign Policy Today’ and Prof. Anindya Jyoti Majumdar on November 15, 2017.
- SIRSS, in collaboration with the Jadavpur Association of International Relations, organized a 10-days’ workshop on ‘Research Methods in International Relations and Related Social Sciences’ from February 5 to February 16, 2018.

3. E. Orientation Courses/Refresher Courses Organized:(Name of the Teachers, Title of the Course, if any, Duration,Place)

The School of International Relations and Strategic Studies, Jadavpur University, organized an interdisciplinary Refresher Course on Peace and Conflict Studies under the UGC-Human Resource Development Centre of the University during December 1-22, 2017.

4. A. Books/Monographs etc. Published :

Refugee and Terror in Europe (Setu Prakashani, Kolkata) by Professor Jyotirmoy Banerjee was published in December 2017.

4. B. Articles Published in Journals: (Including National/International & Peer-reviewed Journals) (Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume)

Information is available under the Department of International Relations.

5. Collaborative Programmes:

- School of International Relations and Strategic Studies, Jadavpur University, in collaboration with the Netaji Institute for Asian Studies, Kolkata, organized a two-day national seminar on “Area Studies and International Relations” during February 6-7, 2018.
- The School of International Relations and Strategic Studies (SIRSS), Jadavpur University (JU), and Netaji Institute for Asian Studies (NIAS), Kolkata, hosted a Lecture on ‘Governing India’ delivered by Prof. Rahul Mukherjee, Head of Department of Political Science and Deputy Executive Director, South Asia Institute at Heidelberg University in Germany, on January 15, 2018.
- School of International Relations and Strategic Studies, Jadavpur University, in collaboration with Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata, organized a panel discussion on “The Role of China in Asian Affairs: Implications for India” on August 29, 2017.
- School of International Relations and Strategic Studies, in collaboration with the Jadavpur Association of International Relations, organized a lecture by Prof. Mahendra P. Lama, High End Expert, Institute of South Asian Studies, Sichuan University, Chengdu – China, on the “Dynamics of New Regionalism : SAARC and Beyond” on March 7, 2018.

LANGUAGES & LINGUISTICS

Int. : 2457-2144/2943/2420

Director.: Dr. Samir Karmakar

E-mail : dir.language@jadavpuruniversity.in

1. A. Courses Offered:

(i) Linguistics :

- (a) MA in Linguistics under the Faculty of Arts, J.U.
- (b) MPhil in Linguistics under the Faculty of Interdisciplinary Studies, Law and Management
- (c) PhD in Linguistics under the Faculty of Interdisciplinary Studies, Law and Management
- (d) Choice based undergraduate courses (ED) under Faculty of Arts
- (e) Certificate Course in Linguistics (evening) of 1 year duration

(ii) Language Courses:

- (a) Certificate Courses (1 year): French, German, Spanish, Korean, Japanese, English, Chinese, Bengali, Hindi, Sanskrit
- (b) Diploma Courses (1 year): French, German, Spanish, Japanese, Bengali, Hindi
- (c) Advanced Diploma Courses (1 year): French, Japanese
- (d) Advanced Diploma I and II (two years): Bengali
- (e) Short Term Language Course: Bengali for the Japanese Student from Tokyo University of Foreign Studies

1. B. Number of Faculty Members:

- (i) One Professor post is vacant from January 2018 onward due to the retirement of Dr. Mahidas Bhattacharya
- (ii) Dr. Samir Karmakar, Assistant Professor and Director of the School
- (iii) Dr. AtanuSaha, Assistant Professor and Joint Director of the School
- (iv) Guest faculties for linguistic courses: 4
- (v) Guest faculties for language courses: 21

2. B. Major Research Project:

(i) Departmental

UGC funded project “Study and Research in Indegenous and Endangered Languages in India DuringXIIth Plan Period” is in its third year.

(ii) Individual

Dr. Mahidas Bhattacharya

Working for a ‘Tree Bank Project of Bengali’ in Collaboration with the Dept. Computer Science, JU and IIIT Hyderabad.

3. A. Invited Lectures Delivered/Sessions Chaired:

Faculty Members

Dr. AtanuSaha

- (i) Anaphors in Toto during the international conference on endangered and lesser known languages held on 24-26 February 2017 organized by Centre for Tribal Folklore, Language & Literature, Central University of Jharkhand.
- (ii) A comparative study of the anaphors in Toto Meiteilon and Nyishi during the 33rd SALA conference organized by dept. of Oriental studies, The Adam Mickiewicz University, Poznan, Poland held on 15-17 May 2017.
- (iii) Introductory talk during Workshop on ELAN at Lucknow University 2-3rd June, 2017
- (iv) Resource person for Workshop worlds 3 Agra 16-18 September 2017
- (v) Chaired a session on 8th December 2017 during ICOLSI at IIT Patna
- (vi) Talk on language technology at NIT Durgapur on February 23, 2018.

Dr. Samir Karmakar

Annual Report 2018-19

- (i) Chaired a session of an workshop on “Methodological approach to Research In Language and Social Science”, on 11th -17th October, 2017 at Seminar hall, NazrulBhavan conducted by the Byanjanbarna Foundation
- (ii) Act as evaluator of a Winter School (equivalent to Refresher Course and Orientation Programme) on “Literature and the Other Arts” from 6 - 25 November, 2017 conducted by the Department of Comparative Literature and the UGC Human Resource Development Centre, Jadavpur University on 20th November, 2017 at BuddhadebBasuSabhaghar.

Project Staff

Dr. Bornini Lahiri

- (i) Invited lecture on Data Collection and Analysis in Linguistics at 3rd National Workshop on Language Description and Sciences (WORLDS – 3). Dr. B.R. Ambedkar University, Agra. August 2017.
- (ii) Chaired session in at 39th International Conference of Linguistic Society of India (ICOLSI – 39) IIT-Patna. December 2017.

Dr. Dripta Piplai

- (i) Piplai, D. (2018). ‘School Education for Language Revitalization’ at Christ University, Bangalore on 20th February, 2018.
- (ii) Piplai, D. (2017). ‘Multilingual Resources and Language Conflict in Classroom’, Workshop for Teachers at SCERT, Raipur, Eklavya and UNICEF, 9th-10th December, 2017.
- (iii) Piplai, D. (2017) ‘Introduction to Sociolinguistic Theory’ at Department of Bengali, Raiganj University, Raiganj on 24th April, 2017.

3. B. Seminar/Workshop/Conference/ Symposium attended and Paper Presented

Faculty Members

Dr. Mahidas Bhattacharya

- (i) Bhattacharya, M. (2017). *Origin of Languages* as Resource Person in 67th Orientation, Programme UGC-HRDC, Jadavpur University Salt Lake Campus, Kolkata, 21.11.2017.
- (ii) Bhattacharya, M. (2017) ‘ON Morphology’ RamkrishnaMissonSiksanMahaVidyalaya,
- (iii) Bhattacharya, M. (2017). Delivered invited Lecture on “The Evolution Dhrupad from Vedic Chanting” organized by Mridanga Cultural Society, in Vivekanada Society Hall, on 23 12 2017.

Dr. Samir Karmakar

- (i) Chatterjee, L., Karmakar, S., and Datta, A. (2017). Textual Relations and Topic-Projection: Issues in Text Categorization. In 14th International Conference on Natural Language Processing (ICON-2017), 18-21 December, 2017, Jadavpur University, Kolkata.

Project Staff

Dr. Arup Majumdar

- (i) National Seminar on “Environment, Sustainable Development and Future Perspective in Northeast India: Emic and Ethic Dynamics” organised by Department of Anthropology, University of Delhi, Delhi, 2nd and 3rd October, 2017. Title of The paper: Role of Socio-Economic Variables in Language Shift: A linguistic Anthropological Approach From Totopara, West Bengal.

- (ii) 2nd Regional Science and Technology Congress (Western Region)- 2017, Organised by University of Burdwan on 16-17, November, 2017. Title of the Paper: Demographic Profile of Totopara, West Bengal.
- (iii) 39th International Conference of Linguistic Society of India, Organised by Department of Humanities and Social Sciences and Computer Science and Engineering, IIT Patna, in collaboration with Central Institute of Indian Languages, Mysore and Linguistic Society of India on December 08-11, 2017. Title of the paper: An Anthro- Linguistic Study on the Clan Formation of the Kurmali Community of West Bengal.
- (iv) 2nd Regional Science and Technology Congress (Southern Region)- 2017, Organised by University of Kalyani and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal on December 14-15, 2017.
- (v) 47th Annual Conference of The Indian Anthropological Society, “ National Seminar on Tribal Situation in India: Contemporary Issues and Concerns”, Jointly organised by Indira Gandhi National Tribal University, Amarkantak, The Indian Anthropological Society, Kolkata, Indira Gandhi Rastriya Manav Sangrahalaya, Bhopal, Tata Steel, Jamshedpur on 29-31 January, 2018. Title of the Paper: A Linguistic Anthropological Study on Clan Formation of Toto of Totopara in West Bengal.
- (vi) 6th International Conference on Endangered and Lesser- known Languages (ELKL-6) organised by Central Institute of Indian Languages, Mysuru from 21- 23 February, 2018 with Dr. Dripta Piplai Mondal. Title of the paper: Role of Socio- economic Variables in Language Shift with Special Reference to Kurmali and Toto Communities of West Bengal.
- (vii) 6th International Conference on Endangered and Lesser- known Languages (ELKL-6) organised by Central Institute of Indian Languages, Mysuru from 21- 23 February, 2018 with Dr. Bornini Lahiri. Title of the Paper: An Anthro- Linguistic Study on Kinship Terms of Kurmali.
- (viii) A Two day National Seminar cum Workshop on Broadening the horizon of the Current Research on Endangered and Indigenous Languages of India, Organised by School of Languages and Linguistics, Jadavpur University, under the project grant in Study and Research in Indigenous and endangered languages during XII plan, Sponsored by UGC from 16th& 17th March, 2018. Title of the Paper: Anthropol- Linguistic Methods: Its Application & Outputs.
- (ix) 5 -Day Workshop on Language Documentation and Revitalization organised by Central Institute of Languages, Mysuru from 26th February to 2nd March, 2018.

Dr. Bornini Lahiri

- (i) Lahiri, B. (2018). Kurmali: An Ethno-linguistic Overview. A two-day National seminar cum workshop on Broadening the horizon of the current research on Endangered and Indigenous Languages of India, Jadavpur University, March 2018.
- (ii) Lahiri, B. (2018). An Anthro-linguistic Study on Kinship Terms of Kurmali (co-authored with Arup Majumder), Presented at 6th International Endangered and Lesser-known Languages Conference (ELKL – 6) CIIL, Mysore. February 2018.
- (iii) Lahiri, B. (2018). Diachronic Study of Mixed Codes in Bengali Films (co-authored with Ritesh Kumar), Presentation at 13th International Conference of South Asian Languages and Literatures (ICOSAL – 13) CIIL, Mysore. January 2018.

Annual Report 2018-19

- (iv) Lahiri, B. (2018). Kurmali: A mixed language (co-authored with AtanuSaha), Presented at 39th International Conference of Linguistic Society of India (ICOLSI – 39) IIT-Patna. December 2017.
- (v) Lahiri, B. (2018). Revitalization pays in various ways, Presented at International Conference on Communities in Control: Learning tools and strategies for multilingual endangered language communities (CinC 2017) Alcanena (Portugal). October 2017.
- (vi) Lahiri, B. (2018). Kurmali: A Field Experience Field Survey, Language Archiving and the Study of Endangered Languages, Jadavpur University, Kolkata. April 2017.
- (vii) Lahiri, B. (2018). Indo-Aryan root meets Tibeto-Burman Suffix in Dhimal, Presented at 23rd Himalayan Languages Symposium. Tezpur University, Tezpur, June 2017.

Dr. Dripta Piplai

- (i) Piplai, D. (2018). ‘Multilingualism in Toto Community’ in ‘Broadening the Horizon of the Current Research on Endangered and Indigenous Languages of India’ at Jadavpur University, Calcutta, March, 2018.
- (ii) Participated in post-conference workshop on Language revitalization at Endangered and Lesser Known Languages Conference (ELKL-6) at Central Institute of Indian Languages, Mysore, February 26th –March, 2nd, 2018.
- (iii) Majumder, A. and D. Piplai (2018). ‘Role of Socio-Economic Variables in Language Shift with Special Reference to Kurmali and Toto Communities of West Bengal’ (Jointly with Arup Majumder), at the Conference of Endangered and Lesser Known Languages (ELKL-6), February, 2018, Central Institute of Indian Languages, Mysore, February, 2018.
- (iv) PalBiswas, T. and D. Piplai (2018). ‘Developing an Integrated Curriculum Using Mother Tongue: Integrated Resource Centre in Sunderban Islands’ (Jointly with Pal Biswas, Tirumala) at International Conference of South Asian Language and Literature (ICOSAL-13), January, 2018.
- (v) Piplai, D. (2017). Exposure to Education as a Factor for Language Endangerment: Revitalizing Toto and Rajbanshi Using Mother Tongue Education’, Proceedings of ‘Communities in Control: Learning Tools and Strategies for Multilingual Endangered Language Communities’, Mercator-SOAS-CIDLes and FEL Conference, October, 2017
- (vi) ‘Participated in the 10th Linguistic Spring Schools in the Indian Mountains’ (LISSSIM) organized by ‘Formal Studies in the Syntax and Semantics of Indian Languages’ (FOSSSIL) at Solang, Himachal Pradesh in May-June, 2017.

Ms. Samhati Soor

- (i) Two Day National Level Workshop on “Phonology and Dspace Technology” organised by School of Languages and Linguistics, Jadavpur University, Kolkata, India under UGC-SRIELI Project from 9th February, 2018 to 10th February, 2018.
- (ii) International Seminar on Rejuvenating Public Library Services Through Digital Reference Sources organised Department of Library and Information Science, Jadavpur University, Kolkata, India from 22nd February, 2018 to 23rd February, 2018.
- (iii) A two day National seminar cum workshop on Broadening the horizon of current research on Endangered and Indigenous Languages in India organised by School of Languages and Linguistics, Jadavpur University, Kolkata, India under UGC-SRIELI Project from 16th March, 2018 to 17th March, 2018.

3. C. Seminar/Workshop/Conference Organized: Faculty Members:

Dr. Atanu Saha

- (i) Language Politics and Mother Tongue Education in Nepal By Dr. Dörte Borchers Department of Linguistics University of Graz, 18 July, 2017
- (ii) LANGUAGE- MIND- BRAIN: INTERFACE STUDIES A Two-Day Workshop Being Organized by Humanities and Social Sciences Department, IIT Patna In Collaboration with School of Language and Linguistics, Jadavpur University, Kolkata and Central Institute of Indian Languages, Mysore With IIT Patna on 19-20 August 2017
- (iii) Lecture on mixed methodology on 16th Oct, 2017 organized by dept of education JU
- (iv) Workshop talk on language documentation given at Jahangirnagar University, Bangladesh 5-6 Dec, 2017

Dr. Mahidas Bhattacharya

- (i) Workshop on Grammar Formalism for the project on 08-09/08/2017

Dr. Samir Karmakar

- (i) Organized a half day Seminar on “Symmetry & asymmetry in (morpho)-phonology and morphology: synchronic, diachronic and experimental evidence” - a lecture delivered by the Prof. Aditi Lahiri of Oxford University on 03rd January, 2018 at 0300pm in Buddhadeb Basu Sabhaghar, J.U.
- (ii) Organized a half day Seminar on “Interfacing with Interfaces” - a lecture delivered by Dr. Diti Bhadra of Harvard University on 16th January, 2018 at 0300pm in the Conference Room of Department of Philosophy, J.U.
- (iii) Organized a half day Seminar on “Mother Tongue Education in Aotearoa/New Zealand: Current Practices and Future Prospects” delivered by Dr. Peter J. Keegan of University of Auckland in New Zealand on 12th February, 2018 at 0300pm in Buddhadeb Basu Sabhaghar, J.U.

3. D. Workshop Organized by the Project Team (UGC) of Endangered Languages:

- (i) A two-day National seminar cum workshop on Broadening the horizon of the current research on Endangered and Indigenous Languages of India, Speakers: Prof. Awadesh Kumar Mishra, Professor, The English and Foreign Languages University; Prof. Ajit Kumar Baishya, Professor, Assam University; Prof. Smita Sinha, Professor, Berhampur University; Dr. Ritesh Kumar, Assistant Professor, Agra University; Dr. Atanu Saha, Assistant Professor, Jadavpur University; Dr. Samir Karmakar, Assistant Professor, Jadavpur University, March 16-17, 2018.
- (ii) Workshop on Phonology and DSpace Technology, Resource Persons: Dr. T Meiraba, Assistant Professor, Sikkim University and Mr. Narendra Jani, DSpace Technologies February 09-10, 201.
- (iii) Two Days Workshop on Grammar Formalization, Resource Person: Prof. K. V. Subbarao, Former Professor, University of Delhi, August 8-9, 2017.
- (iv) Questionnaire Revision Part 2, Resource Person: Shyam Sundar Bhattacharya, Former Director, Language Cell, Government of India, June 06, 2017.
- (v) Questionnaire Revision Part 1, Resource Person: Shyam Sundar Bhattacharya, Former Director, Language Cell, Government of India May 24, 2017.

3. E. Orientation Courses/ Refresher Courses Attended:

Dr. Atanu Saha

Refresher course on Disaster management organized by school of oceanographic studies from 23 Oct to 11th Nov, 2017 by UGC HRDC, JU

4. B. Articles Published in Journals/Conference Proceedings/ Books: (Including National/ International and Peer-reviewed Journals in the following format: Names of the Author, Year of Publication, Name of the Article, Name of the Journal, Volume, Number, Pages)

Faculty Members:

Dr. Atanu Saha

- (i) Saha, A. (2017). Languages in contact: A comparative study of the Anaphors in Bangla and Toto. *Jadavpur Journal of languages and linguistics*, Vol. 1, No. 1., pp. 29-34.
- (ii) Dey, P. and A. Saha (2017). Verbs of Communication in Bangla. *Language in India* . Jul2017, Vol. 17 Issue 7, p12-36.

Dr. Samir Karmakar

- কর্মকার, সমীর (২০১৭)। উদ্ধৃতিতে উদ্ধার - একটা হিজিবিজি টোঁড়ায়ণ, (An article on the semantics of quotation) *আলোচনা চক্র*, সংকলন ৪৩।
(An article on the semantics of quotation)
- (ii) Sengupta, B. and S. Karmakar (2017). Talks around the ‘Text’: Co-existences, Co-ordinations, and Co-operations. *Jadavpur Journal of Languages and Linguistics*, Vol. 1, No. 1, pp. 9-17.
 - (iii) Chatterjee, L., Karmakar, S., and Datta, A. (2017). Textual Relations and Topic-Projection: Issues in Text Categorization. In Bandyopadhyay, S., Mishra Sharma, D. and Sangal, R. (eds) *Proceedings of the 14th International Conference on Natural Language Processing (ICON-2017)*, pp 43-49, NLPAAI, Published by ACL Anthology.
 - (iv) Karmakar, S. (2018). Becoming Conscious About the Existence of the Non-Existents: Logic, Language and Speech Acts. In Menon, S., Nagaraj, N. and Binoy, V.V. (eds.) *Self, Culture and Consciousness: Interdisciplinary Convergences on Knowing and Being*, pp. 225-234, Springer.

Project Staff:

Dr. Arup Majumdar

- (i) Majumdar, A. (2018). Kurmal Kinship Terms and its Morphology. In *Jadavpur Journal of Languages and Linguistics*. Vol. 2:1. pp. 38-48. ISSN: 2581-494X.

Dr. Bornini Lahiri

- (i) Lahiri, Bornini. (2018). Classifiers in Surjapuri. In *Jadavpur Journal of Languages and Linguistics*, Vol 2:1, pp. 27-37. ISSN: 2581-494X.
- (ii) Lahiri, Bornini. (2017). Bhasa O Hariye Jae (Languages too get lost). In *Durdaiba* (A peer reviewed Bangla journal). Vol. 3:1 pp. 16 – 19. ISSN: 2394-9090.
- (iii) Lahiri, Bornini. (2018). Revitalization pays in various ways. In *Proceedings of Communities in Control: Proceedings of FEL XXI Alcanena: Foundation for Endangered Languages*, Hungerford UK. pp. 44-49, 2018. ISBN-978-0-9560210-9.

Dr. Dripta Piplai

- (i) Piplai, D. (2018). ‘Globalization, Bangla Bhasha/Bangali Identity’ (Globalization, Bangla Language and Bengali identity) in www.4numberplatform.org, published on 1st February, 2018.
- (ii) Piplai, D. (2017). ‘How Code Mixing Can be Used in Education’ in *Pokomixmaadi*, A Blog about Code Mixing in Human Language by Project Melange, Microsoft Research India ,published

on 3rd May, 2017, <https://pocomixmaadi.wordpress.com/2017/05/03/how-code-mixing-can-be-used-for-education/>

- (iii) Piplai, D. (2017). 'Exposure to Education as a Factor for Language Endangerment: Revitalizing Toto and Rajbanshi Using Mother Tongue Education', Proceedings of 'Communities in Control: Learning Tools and Strategies for Multilingual Endangered Language Communities', Mercator-SOAS-CIDLes and FEL Conference, October, 2017.
- (iv) Piplai, D. (2017). 'TumiBoroHoye Ki Hote Chao?' (What do you Want to be When You will Grow Up?) Kolkata: Durdoibo, ISSN: 2394-9090. (In Bangla).

5. Collaborative Programmes:

Dr. Samir Karmakar

- (i) Organized an One day National Seminar on Collaborative Existence and the Dynamics of Communication in Collaboration with Alochona Chakra with an Financial Aid from Indian Council of Social Science Research on 17 February, 2018 at Dr. H.L. Roy Auditorium, Jadavpur University

6. Major Achievements

A. Departmental

- (i) School of Languages and Linguistics, J.U. has successfully launched its online journal "Jadavpur Journal of Languages and Linguistics". It has received its ISSN number and the online version can be accessed through this link: <http://jjll.jdvu.ac.in/journal/index.php/JJLL/index>
- (ii) Two new batches along with the existing one for Functional and Communicative English are started.

B. Individual

Dr. Atanu Saha

- (i) Appointed as the PI of UGC funded project "Study and Research in Indigenous and Endangered Languages in India During XIIth Plan Period"
- (ii) Working as a CO-PI for POS Tagged Bangla Text Corpus Generation till 2021, ISI Kolkata

Dr. Mahidas Bhattacharya

- (i) Introduced a course on Chinese Language in collaboration with 'The School of Chinese Language' at 190, Sarat Bose Road, Kolkata 700029, as per the MOU with Jadavpur University.

Dr. Samir Karmakar

- (i) Working as a Managing Editor for Jadavpur Journal of Languages and Linguistics
- (ii) Appointed as the Co-PI of UGC funded project "Study and Research in Indigenous and Endangered Languages in India During XIIth Plan Period"
- (iii) Act as the examiner of the Refresher course

7. Students'/Scholars' Presentations/Publications:

- (i) Dutta, A, & Ghosh, S.S (2018, January) "Textual Relations: A Case Study in Bengali From the Viewpoint of RST". Paper presented in 12th Students' Conference of Linguistics in India (SCONLI-12), at Mahatma Gandhi International Hindi University Wardha, India.

Annual Report 2018-19

- (ii) Dutta, A, & Ghosh, S.S (2018) “Textual Relations: A Case Study in Bengali From the Viewpoint of RST”. *Aabhyantar*, 16- 20.
- (iii) Mallick, A. and A. Banerjee (2017). Significance of Structure in Cognition: A Study on Bangla Counting System. *Jadavpur Journal of Languages and Linguistics*, Vol. 1, No. 1, pp. 1-8.
- (iv) Sengupta, B. and S. Karmakar (2017). Talks around the ‘Text’: Co-existences, Co-ordinations, and Co-operations. *Jadavpur Journal of Languages and Linguistics*, Vol. 1, No. 1, pp. 9-17.
- (v) Chatterjee, L., Karmakar, S., and Datta, A. (2017). Textual Relations and Topic-Projection: Issues in Text Categorization. In Bandyopadhyay, S., Mishra Sharma, D. and Sangal, R. (eds) *Proceedings of the 14th International Conference on Natural Language Processing (ICON-2017)*, pp 43-49, NLP AI, Published by ACL Anthology.
- (vi) Pal Biswas, T. and D. Piplai (2018). ‘Developing an Integrated Curriculum Using Mother Tongue: Integrated Resource Centre in Sunderban Islands’ (Jointly with Pal Biswas, Tirumala) at International Conference of South Asian Language and Literature (ICOSAL-13), January, 2018.
- (vii) Paik, A. (2017) ‘ashapurnadevirbaloygrasupannyaser shaili’. In the proceedings of International seminar- 2018 organized by Prabahaman Bangla Charcha Kolkata, India. At pabna university of science and technology held on 24/01/2018.
- (viii) Barman, S. Ram (2018) প্রযুক্তির নিরিখে বাংলা যৌগিক ও সংযোগমূলক ক্রিয়ার গঠন বিশেষণ presented in the 5th International Congress of Bengali Studies, held on 25 - 28th January, at Jahangirnagar University, Savar, Dhaka, Bangladesh.
- (ix) Gayen, P.K. (2017). Designing Artificial Conversations - workshop on voice user interface 2018; 01-03 March.
- (x) Gayen, P.K. (2017). An Advanced Workshop cum Training Programme on Laboratory Phonetics and Phonology, CIIL; 25 th – 30 th September 2017.
- (xi) Gayen, P.K. (2017). Workshop on Language – Mind – Brain : Interface Studies, IIT Patna; 19th -20th August 2017.
- (xii) Gayen, P.K. (2017). 45 th All India Conference of Dravidian Linguistics & International Symposium on Case, Agreement and Postposition; 23 rd – 25 th June 2017. Presented a Paper on “Distribution of Bangla Postposition ‘theke’ in ApâdanKâraka System: LFG Model Representation
- (xii) Paik, A. (2017). ‘Rabindra -upanyaser Namayan’. In IQAC- Sponsored International seminar SouthAsia: Re-mapping the Geo- cultural Imaginaries Organized by The Dept.of English & Bengali Raja Rammohun Roy Mahavidyalaya, Radhanagar, Hooghly on 20/03/2018.

MATERIALS SCIENCE & NANOTECHNOLOGY

Phone : + 91-33-6512 8386

Int. : 2457-2876

Director: Dr. K. K. Chattopadhyay

E-mail : dir.nanotech@jadavpuruniversity.in

1. A. Course Offered:

Course Offered :	Duration	No. of Students
M.Tech in Nano Sc. & Technology	2 years	(20 + 20)

1. B. Number of Faculty Members:

Director: Prof. Kalyan Kumar Chattopadhyay
Assistance Professor – 2
Contractual Assistance Professor - 1
Honorary services from Engg. Faculty – 8
Honorary services from Science Faculty – 1

2. A. Areas of Research Activities:

- i) Development of multifunctional nanostructured materials
- ii) Physical properties of Low dimensional systems
- iii) Carbon Nanomaterials: CNT, Graphene and their composites
- iv) Semiconductor Nanomaterials
- v) Transparent conducting oxides: p-type and n-type oxide nanomaterials
- vi) Multiferroic materials
- vii) Nano-bio Materials
- viii) Ab initio calculations; DFT studies

2. B. Major Research Projects:

1. Title: Synthesis of MgO-Carbon Refractory for Steel Making; Funding Agency: Steel Authority of India-RDCIS (SAIL-RDCIS); 2014-17; (completed) P.I.–Prof. K.K. Chattopadhyay,
2. DST Nanomission project in Nanoscience & Technology for PG teaching and Research -DST-Nano Mission 2015 -2021 (On-going); Prof. K.K. Chattopadhyay (Co-ordinator).
3. Development of Nano Structures – Transformer Oil Nanofluids for Improvement of Thermal and Insulating Properties, National Power Project (NPP) Ministry of Power, Govt. of India. IEST and Jadavpur University. Prof. K.K. Chattopadhyay (Co-Investigator of the project). Completed 2017 (Collaborative Project)
4. Design of Nano-Carriers for Sustained Release of Conventional Analgesic Drugs. Funding Agency: WBDST; (2018 – 2021), M. GhoshChaudhuri (Co - Principal Investigator).
5. Project Title: Synthesis of drug (herbal values) entrapped nano material to treat cancer disease and other disease causing organisms. Funding Agency: WBDST, Tenure: 2018 – 2021; M. GhoshChaudhuri (Principal Investigator).

3. A. Invited Lectures Delivered:

1. Dr.SouravSarkar delivered an InvitedLecture on “Fundamentals of Field Effect Transistors” organized Dept. of Electronics and Communication Engineering of Siliguri Institute of Technology, Darjeeling on 28.09.2018 and 29.09.2018.
2. Dr.Chandan Kr. Ghosh delivered an Invited Lecture on Nanomaterials: Fundamental and Application, in theConference commemorating “125th Birth Anniversary of Prof. P. C. Mahalanobison” Agricultural research under a changing climate in Eastern India”, January 17-18, 2018, Giridih, Jharkhand.
3. Dr.Chandan Kr. Ghosh delivered an Invited Lecture on Strain induced modification of the electronic structure and optical properties of MoSe₂: an *ab-initio* study, IEEE sponsored 1st

- International Conference on “Emerging trend in electronic devices and computational devices”, 8-9 March, 2018, Guru Nanak Institute of Technology, Sodepur.
4. Dr.Chandan Kumar Ghosh chaired a session in IEEE sponsored 1st International Conference on “Emerging trend in electronic devices and computational devices”, 8-9 March, 2018, Guru Nanak Institute of Technology, Sodepur.
 5. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the National conference entitled “Frontier areas of research and applications using electron microscopy” 16th March, 2018 at Viswabharati.
 6. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the National Conference entitled “Condensed Matter Days 2018” during 27-29th August, 2018 at Burdwan University.
 7. Prof. K.K. Chattopadhyay Chaired a session in the National conference entitled “Condensed Matter Days 2018” during 27-29th August, 2018 at Burdwan University.
 8. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the Nanotechnology Workshop on 4th August, 2018 at Kalyani University.
 9. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the National conference entitled “SPECTRUM” on March 24, 2018 at St. Xaviers College, Kolkata.
 10. Prof. K.K. Chattopadhyay delivered a special Invited Lecture on ‘Nano-technology for sustainable development’ at Guru Nanak Institute of Technology on the occasion of National Science Day, 28th February, 2018.
 11. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the National conference entitled “SMART MATERIALS AND ITS APPLICATION IN ENGINEERING” (SMAE-2018) 12-16 February, 2018 at NIT Durgapur.
 12. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the National conference entitled Biomedical Engineering in Human Welfare at Jadavpur University, on 3rd August, 2018.
 13. Prof. K.K. Chattopadhyay Chaired a session in the National conference entitled “Advances in Materials Research and Simulation” at Indian Association for the Cultivation of Science, Kolkata, 25th May (2018).
 14. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the in the Regional Science Congress (Southern Region) at University of Kalyanion 14th December, 2017.
 15. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the National conference entitled “Recent trends in Physics: Research & Education” at RS College, 8th December, 2017.
 16. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the IEEE students’ chapter organized entitled 2nd technical symposium on Friday, 10th of November, 2017, at Institute of Engineering and Management, Kolkata.
 17. Prof. K.K. Chattopadhyay delivered a special Invited Lecture (Erudite Lecture) at CSIR-CEMRI, Durgapur on 6th November, 2017.
 18. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the National Conference entitled “Recent Trends in Condensed Matter Physics (RTCMP 2017)” Bose Institute, Kolkata, 31st October – 3rd November 2017.
 19. Prof. K.K. Chattopadhyay was invited for delivering an Invited Lecture in the 5th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN2017), during 18-21 December 2017, at IIT, Guwahati.
 20. Prof. K.K. Chattopadhyay delivered an Invited Lecture in the International Conference entitled ‘Recent Trends in Science Towards Sustainable Development’, organized by the Indian Chemical Society during 6-7th August, 2018 at APC college, Kolkata.

21. Prof. K.K. Chattopadhyay delivered the Keynote Address in the National Conferences “Advances in Materials Science” during 24 - 25 April, 2017, at Guwahati University.
22. Prof. K.K. Chattopadhyay delivered an Invited Lecture at Diamond Harbour Women University on 11th July 2017.
23. Prof. K.K. Chattopadhyay delivered an Invited lecture at Ramakrishna Mission Vidyamandira, Belur Math, Platinum Jubilee Commemorative one-day (12th April, 2017) national level seminar on “Recent Advances in Materials Science”.
24. Prof. K.K. Chattopadhyay delivered an Invited lecture in the National Conference entitled “Emerging Trends in Physics of Surfaces, Interfaces and Nanostructures (ET-PSIN)” at S.N. Bose National Centre for Basic Sciences (SNBNCBS), Kolkata, November 24-25 (2017).

3. B. Awards / Medals :

1. Institute Gold Medal – 2018, of The Mining, Geological and Metallurgical Institute of India, for the research paper “Utilization of Low Grade Chromite Ore For The Production of Carbon Free Ferrochrome”.
2. SouravSarkar, D Pahari, D.Banerjee, N.S. Das and K.K.Chattopadhyay, ICONN-2017, SRM University, August 9-11, 2017. (Received the Best paper Award in its category).
3. Paper Title: Sonocatalytic dye degradation by RGO wrapped Copper Phthalocyanine nanotube, Madhupriya Samanta, Moumita Mukherjee, Chayanika Bose and Kalyan Kumar Chattopadhyay, Conference name: International Conference on Nano Science & Engineering Applications - 2018 (ICONSEA 2018), Award: Best Poster Presentation
4. Paper: Investigation on Synthesis and Electrical Properties of Topological Insulating Bi₂Se₃ and its Hybrid Nanostructures, Biswajit Das and Kalyan Kumar Chattopadhyay, Conference name: International Conference on Nano Science & Engineering Applications - 2018 (ICONSEA 2018), Award: Best Thesis Presentation
5. Paper: Temperature dependent NIR photo detector based on Topological Insulating Bi₂Se₃ / Si Nanowire, Biswajit Das, Nirmalya S. Das and Kalyan Kumar Chattopadhyay, Conference name: International Conference on Nano Science & Engineering Applications - 2018 (ICONSEA 2018), Award: Best Oral Presentation
6. Title: Beyond spintronics: Bi₂Se₃ nanohybrids NIR detectors and cold cathodes Author: Biswajit Das, N.S. Das, Kalyan Kumar Chattopadhyay, Young scientists Colloquium 2017 (YSC 2017) IEST, Shibpur, 11th October, 2017, Award: Best Poster in Young scientists Colloquium

4. A. List of Published Papers of Prof. K.K. Chattopadhyay in Conference Proceedings:

1. Fabrication of Molybdenum Trioxide Nanobelts as High Performance Supercapacitor, S Pal, KK Chattopadhyay, **Materials Today: Proceedings 5** (3), 9776-9782, (2018).
2. Morphology Tailored Cobalt Oxide Nanoarchitectures Over Flexible Platform For Hazardous Organic Dye Degradation Under Visible Light, S Thakur, S Maiti, KK Chattopadhyay, **Materials Today: Proceedings 5** (3), 9749-9753, (2018).
3. Hierarchical Bi₂Se₃-Ag-rGO Micro/Nano Composite: 2D to 3D Geometry for Smart Cold Cathodes, B Das, NS Das, H Raha, D Banerjee, KK Chattopadhyay, **Materials Today: Proceedings 5** (3), 10034-10041, (2018).
4. Fabrication of all-inorganic CsPbBr₃ perovskite nanocubes for enhanced green photoluminescence, T Paul, BK Chatterjee, N Besra, S Thakur, S Sarkar, KK Chattopadhyay, **Materials Today: Proceedings 5** (1), 2234-2240(2018).

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9. 3D hierarchical architecture based on 1D TiO₂ nanorod and 2D MnO₂ nanoflake for high performance supercapacitor electrode, S Thakur, S Maiti, A Acharya, T Paul, N Besra, S Sarkar, **AIP Conference Proceedings** **1942** (1), 140071, (2018).
10. Low dimensional CH₃NH₃PbBr₃ cubes for persistent luminescence: Energy variation of electron excitation, N Besra, T Paul, S Thakur, S Sarkar, K Sardar, K Chanda, A Das, **AIP Conference Proceedings** **1942** (1), 120027, (2018).
11. En route to the conductivity bottleneck in p-type CuCr_{1-x}MxO_{2-y}S_y (M = Li, Mg), P. Mandal, N. Mazumder, A.J. Akhtar, R. Roy, K.K. Chattopadhyay, **AIP Conference Proceedings** **1832** (1), 110054, (2017).
12. Facile synthesis of ZnPc nanocubes: An electron emitting material for field emission display devices, M Samanta, UK Ghorai, M Mukherjee, P Howli, KK Chattopadhyay, **AIP Conference Proceedings** **1832** (1), 050032, 1, (2017).
13. Novel kite-like ZnO nano-tetrapods for sustainable environmental applications, S. Pal, S. Maiti, K.K. Chattopadhyay, **AIP Conference Proceedings** **1832** (1), 050039 2 (2017).
14. Three dimensional CuO nanoflakes on flexible carbon fabric for high performance supercapacitor, P. Howli, S. Das, K. Panigrahi, M. Samanta, K.K. Chattopadhyay, **AIP Conference Proceedings** **1832** (1), 050030, (2017).
15. Solution processed, organic/inorganic nanostructure based bilayer device for diode application, M. Mukherjee, M. Samanta, B. Das, U.K. Ghorai, G.P. Das, K.K. Chattopadhyay, **Devices for Integrated Circuit (DevIC)**, 2017, 281-285, (2017).
16. Sonocatalytic activity of solution processed zinc oxide nanowires: Efficient remediation of organic pollutants, M. Samanta, M. Mukherjee, U.K. Ghorai, K.K. Chattopadhyay, **Devices for Integrated Circuit (DevIC)**, 2017, 277-280, (2017).
17. Optical properties of chemically synthesized amorphous carbon nanotube and cadmium selenide quantum dot hybrid, S. Sarkar, D. Banerjee, D. Pahari, K.K. Chattopadhyay, **Devices for Integrated Circuit (DevIC)**, 527-530, (2017).

4. B. LIST OF PUBLICATIONS (IN JOURNALS):

1. **S. Sarkar**, D. Banerjee, N.S. Das, U. K. Ghorai, D. Sen and K.K. Chattopadhyay, Efficient Cold Cathode Emission in Crystalline-Amorphous Hybrid: Study on Carbon Nanotube-Cadmium Selenide System, *Physica E*(2018) (Elsevier), 97, 162-169.

2. Novel multiple phosphorescence in nanostructured Zinc oxide and calculation of correlated colour temperature, Sagnik Das, Uttam Kumar Ghorai, RajibDey, **Chandan Kumar Ghosh**, Mrinal Pal, **Physical Chemistry Chemical Physics**, **19**, 22995 – 23006 (2017).
3. Charge carrier – LO phonon interaction in ZnO nanostructures: effect on photocatalytic activity and infrared optical constants, Shiny Banerjee, Puja Bhattacharyya and **Chandan Kumar Ghosh**, **Applied Physics A**, **123**, 640 (2017).
4. Effect of human placental extract in the management of biofilm mediated drug resistance – A focus on wound management, SutapaGoswami, RatulSarkar, PritamSaha, AmitMaity, TridibSarkar, Debmalya Das, PiyaliDuttaChakraborty, SubhasriBandopadhyay, **Chandan Kumar Ghosh**, SamnoyKarmakar, TuhinadriSen, **Microbial Pathogenesis**, **111**, 307 – 315 (2017).
5. Multiferroicity around Verwey transition in Fe_3O_4 thin film, Shubhankar Mishra, KoushikDey, UjjalChowdhury, Dipten Bhattacharya, **Chandan Kumar Ghosh**, SauravGiri, **AIP Advances**, **7**, 125015 (2017).
6. Non-inversion anisotropy energy in NiO coral structure: asymmetric hysteresis loop at room temperature, Swarupananda Bhattacharjee, Gopes Chandra Das, AnirbanRoychowdhury, Dipankar Das, **Chandan Kumar Ghosh**, Dipten Bhattacharya, PintuSen, **Applied Surface Science**, **449**, 389 – 398 (2018).
7. Facile synthesis of hierarchical nickel (III) oxide nanostructure: A synergistic remediating action towards water contaminants, SayanDey, SoumikPodder, A. Roychowdhury, Dipankar Das, **Chandan Kumar Ghosh**, **Journal of Environmental Management**, **211**, 356 – 366 (2018).
8. Nonmonotonic particle-size-dependence of magnetoelectric coupling in strained nanosized particles of BiFeO_3 , SudiptaGoswami, Dipten Bhattacharya, **Chandan K. Ghosh**, BarnaliGhosh, S.D. Kaushik, VasudevaSarguri and PSR Krishna, **Scientific Report**, **8**, 3728 (2018).
9. Correlation between the dielectric and electrochemical properties of $\text{TiO}_2\text{-V}_2\text{O}_5$ nanocomposites for energy storage application, Apurba Ray, Atanu Roy, Swarupananda Bhattacharjee, Srikanta Jana, **Chandan Kumar Ghosh**, ChittranjanSinha, Sachindranath Das, **ElectrochimicaActa**, **266**, 404 – 413 (2018).
10. Toxic Heavy Metal Ion Adsorption Kinetics of $\text{Mg}(\text{OH})_2$ Nanostructures with Superb Efficacies, DipakChanda, Dipta Mukherjee, Pradip Das, **Chandan Kumar Ghosh**, Anoop Mukhopadhyay, **Materials Research Express**, **5**, 075027 (2018).
11. Phase Pure, High Hardness, Biocompatible Calcium Silicates with Excellent Anti-bacterial and Biofilm Inhibition Efficacies for Endodontic and Orthopaedic Applications, Nilormi Biswas, Aniruddha Samanta, Soumik Podder, **Chandan Kumar Ghosh**, Jiten Ghosh, Mitun Das, Awadesh Mallik, Anoop Mukherjee, **Journal of the Mechanical Behavior of Biomedical Materials**, **86**, 264 – 283 (2018).
12. Electron – phonon interaction to tune metal – semiconductor junction characteristic: ultralow potential barrier and less non-thermionic emission, Swarupananda Bhattacharjee, Arka Dey, Sayan Dey, Anirban Roychowdhury, Partha P. Ray, Dipankar Das, Gopes C. Das, **Chandan K. Ghosh**, **Physica B: Condensed Matter**, **547**, 101 - 110 (2018).
13. The impact of morphology and concentration on crossover between antioxidant and pro-oxidant activity of MgO nanostructures, Soumik Podder, Dipak Chanda, Anoop Kumar Mukhopadhyay, Arnab De, Bhaskar Das, Amalesh Samanta, John George Hardy, **Chandan Kumar Ghosh**, **Inorganic Chemistry** (accepted 2018).
14. Hedge-hog ZnO/Ag heterostructure: an environment friendly rare earth free potential material for cold white light emission with high quantum yield, Puja Bhattacharyya, SwarupanandaBhattacharjee,

- Manoranjan Bar, Uttam Kumar Ghorai, Mrinal Pal, Sujoy Baitalik and **Chandan Kr. Ghosh, Applied Physics A (accepted 2018).**
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 16. Geometrically intricate sheet-on-rod/flake hierarchy embracing cobaltic and manganese oxides over flexible carbon scaffold for binder free high energy density supercapacitor, Subhasish Thakur, Soumen Maiti, Tufan Paul, Nripen Besra, Saikat Sarkar, Kalyan Kumar Chattopadhyay, **CrystEngComm (2018), (In Press). DOI:10.1039/C8CE01182F**
 17. Resonant energy transfer in van der Waal stacked MoS₂ – functionalized graphene quantum dots composite with ab-initio validation, Rajarshi Roy, Dipayan Roy, Nilesh Majumder, Uttam Kumar Ghorai, Kalyan Kumar Chattopadhyay, **Nanoscale 10, (2018), 16822-16829.**
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 20. Low Temperature Synthesis of Graphitic Carbon Nitride Nanorods for Heavy Metal Ions Sensing, Dimitra Das, Diptonil Banerjee, Nirmalya Sankar Das, Biswajit Das, Uttam Kumar Ghorai and Kalyan Kumar Chattopadhyay, **Solid State Sciences 82 (2018), 99-105.**
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 22. Morphology control and photoluminescence properties of Eu³⁺ activated Y₄Al₂O₉ nanophosphors for solid state lighting applications, Antika Das, Subhajit Saha, Karamjyoti Panigrahi, Anuradha Mitra, Rituparna Chatterjee, Uttam Kumar Ghorai, Biswajit Das and Kalyan Kumar Chattopadhyay, **CrystEngComm 2018, 20, 2540-2552.**
 23. Tunable cathodoluminescence over entire visible window from all-inorganic perovskite CsPbX₃ 1D architecture, Tufan Paul, Biplab Kr. Chatterjee, Soumen Maiti, Saikat Sarkar, Nripen Besra, Bikram Das, Karamjyoti Panigrahi, Subhasish Thakur, Uttam K. Ghorai and Kalyan Kumar Chattopadhyay **Journal of Materials Chemistry C (2018), 6, 3322.**
 24. Flowerlike Cu₂NiSnS₄ microspheres for application as electrodes of asymmetric supercapacitors endowed with high energy density, Samrat Sarkar, Promita Howli, Uttam K. Ghorai, Biswajit Das, Madhupriya Samanta, Nirmalya S. Das and Kalyan Kumar Chattopadhyay, **CrystEngComm (2018), 20, 1443.**
 25. Nickel doped graphitic carbon nitride nanosheets and its application for dye degradation by chemical catalysis, D. Das, A. Sett, B. Das, M. Mondal, N. S. Das, D. Banerjee and K.K. Chattopadhyay, **Materials Research Bulletin (2018), 101, 291–304.**

26. Porosity-Tuned NiO Nanoflakes: Effect of Calcination Temperature for High Performing Supercapacitor Application, Monojit Mondal, Biswajit Das, Promita Howly, Nirmalya S Das and K.K. Chattopadhyay, **Journal of Electroanalytical Chemistry (2018), 813, 116–126.**
27. 1D-2D Hybrids as Efficient Optoelectronic Material: A Study on Graphitic Carbon Nitride Nanosheets Wrapped Zinc Oxide Rods, A. Sett, D. Das, D. Banerjee, U.K. Ghorai, N.S. Das, B. Das and K.K. Chattopadhyay, **Dalton Transactions (2018), 47, 4501.**
28. One pot solvothermal synthesis of ZnO nanotube and its composite with RGO: A high performance ORR catalyst in alkaline medium, Moumita Mukherjee, Madhupriya Samanta, Uttam Kumar Ghorai, Shyamal Murmu, Gour P. Das and Kalyan K. Chattopadhyay, **Applied Surface Science 449 (2018) 144-151.**
29. Ultrasound assisted catalytic degradation of textile dye under the presence of reduced Graphene Oxide enveloped Copper Phthalocyanine nanotube, Madhupriya Samanta, Moumita Mukherjee, Uttam Kumar Ghorai, Samrat Sarkar, Chayanika Bose, Kalyan K. Chattopadhyay, **Applied Surface Science 449 (2018) 113-121.**
30. Removal of Textile Dyes by Carbon Nanotubes: A comparison between Adsorption and UV Assisted Photocatalysis, Arun. Kumar Dutta, Uttam Kumar Ghorai, Kalyan Kumar Chattopadhyay, Diptonil Banerjee, **Physica E (2018), 99, 6–15.**
31. Neutralizing the Charge Imbalance Problem in Eu³⁺ Activated BaAl₂O₄ Nanophosphor: Theoretical Insights and Experimental Validation Considering K⁺ Co-Doping, Rituparna Chatterjee, Subhajit Saha, Dipayan Sen, Karamjyoti Panigrahi, Uttam Kumar Ghorai, Gopes Das, Kalyan Kumar Chattopadhyay, **ACS Omega (2018), 3, 788-800.**
32. Enhanced photoconductance in ZnS-RGO based nanocomposite under UV irradiation, R. Roy, N. S. Das, S. Saha, D. Sen and K. K. Chattopadhyay **Applied Physics A (2018), 124, 45.**
33. Tailored CuO nanostructures decorated amorphous carbon nanotubes hybrid for efficient field emitter with theoretical validation, S. Maity, S. Das, D. Sen and K.K. Chattopadhyay, **Carbon (2018), 127, 510-518.**
34. Efficient Cold Cathode Emission in Crystalline-Amorphous Hybrid: Study on Carbon Nanotube-Cadmium Selenide System, S. Sarkar, D. Banerjee, N.S. Das, U. K. Ghorai, D. Sen and K.K. Chattopadhyay, **Physica E (2018), 97, 162-169.**
35. Enhanced Electrochemical Performance of Amorphous Carbon Nanotube-Manganese-di-Oxide-Poly-Pyrrole Ternary Nanohybrid, D. Pahari, N.S. Das, B. Das, P. Howli, K. K. Chattopadhyay, D. Banerjee **Solid State Sciences (2017), 74, 101-108.**
36. Band Edge Tuned Zn_xCd_{1-x}S Solid Solution Nanopowders for Efficient Solar Photocatalysis, Shrabani Ghosh, Samrat Sarkar, Bikram Kumar Das, Dipayan Sen, Madhupriya Samanta, Kalyan Kumar Chattopadhyay, **Physical Chemistry Chemical physics (2017), 19, 29998-30009.**
37. Perovskite Beyond Photovoltaics: Field Emission from Morphology Tailored Nanostructured Methylammonium Lead Triiodide, Nripen Besra, Shreyasi Pal, Bikram Kumar Das and Kalyan Kumar Chattopadhyay, **Physical Chemistry Chemical physics 2017, 19, 26708-26717.**
38. Aspect Ratio Dependent Cold Cathode Emission from Vertically Aligned Hydrophobic Silicon Nanowires, U. Ray, D. Banerjee, B. Das, N.S. Das, S. K. Sinha, K. K. Chattopadhyay, **Materials Research Bulletin (2018) , 97, 232–237.**

39. Graphene anchored P-type CuBO₂ nanocrystals for transparent cold cathode, Saswati Santra, Nirmalya Sankar Das; Nripen Besra, Diptonil Banerjee, Kalyan K. Chattopadhyay, **Langmuir** (2017), **33** , **9961–9971**.
40. Co₃O₄ nanowires on flexible carbon fabric as a binder free electrode for all solid state symmetric supercapacitor, Promita Howli, Swati Das, Samrat Sarkar, Madhupriya Samanta, Karamjyoti Panigrahi, Nirmalya Sankar Das, Kalyan Kumar Chattopadhyay, **ACS Omega** (2017) **2** (8), pp **4216–4226**.
41. Negative-Charge-Functionalized Carbon Nanodot: A Low-cost Smart Cold Emitter, S. Santra, N. S. Das, S. Senapati, D. Sen, K. K. Chattopadhyay, K. K. Nanda, **Nanotechnology** (2017), **28** ,**395705**.
42. Exploring the effect of hole localization on the charge-phonon dynamics of hole doped delafossite, Nilesh Mazumder, Prasanta Mandal, Rajarshi Roy, Subhajit Saha; Uttam Kumar Ghorai, Kalyan Kumar Chattopadhyay, **Journal of Physics: Condensed Matter** (2017) , **29** , **375701**.
43. Topological Insulator Bi₂Se₃ / Si Nanowires Based p-n Junction Diode for High Performance Near Infrared Photodetector ,Biswajit Das, Nirmalya S. Das, Samrat Sarkar, Biplab K. Chatterjee and Kalyan Kumar Chattopadhyay, **ACS Applied Materials & Interfaces** (2017), **9** ,**22652–22664**.
44. Novel Quaternary Chalcogenide / rGO Based Asymmetric Supercapacitor with High Energy Density, Samrat Sarkar, Promita Howli, Biswajit Das, Nirmalya Sankar Das, Madhupriya Samanta, G. C. Das and Kalyan Kumar Chattopadhyay, **ACS Applied Materials & Interfaces** (2017), **9** ,**22652–22664**.
45. Carbon doped ZnO thin film: Unusual nonlinear variation in bandgap and electrical characteristic, D. Sarkar, C. K. Ghosh, K. K. Chattopadhyay, **Applied Surface Science** (2017) **418**, **252-257**.
46. Role of oxygen functionality on the band structure evolution and conductance of reduced graphene oxide, Rajarshi Roy, Ranjit Thapa, Soubhik Chakrabarty, Arunava Jha, Priyanka R Midya, E. M Kumar and Kalyan Kumar Chattopadhyay, **Chemical Physics Letters**(2017) ,**677**, **80–86**.
47. Negative capacitance in ZnO_{1-x}Ch_x (Ch = S, Se, Te): Role of localized charge recombination, Nilesh Mazumder, Prasanta Mandal, Rajarshi Roy, Uttam Kumar Ghorai, Subhajit Saha and Kalyan Kumar Chattopadhyay, **Journal of Applied Physics** (2017), **121**, **135702**.
48. Raman Spectroscopic Observation of Gradual Polymorphic Transition and Phonon Modes in CuPc Nanorod, Uttam Kumar Ghorai, Nilesh Mazumder, Hitesh Mamgain, Rajarshi Roy, Subhajit Saha and Kalyan Kumar Chattopadhyay, **J. Phys. Chem.** (2017) **121** (11), pp **6323–6328**.
49. Effect of Cobalt Doping into Graphitic Carbon Nitride on Photo Induced Removal of Dye from Water, D. Das, D. Banerjee, B. Das, N.S. Das, K.K. Chattopadhyay, **Materials Research Bulletin** (2017) **89** **170 – 179**.
50. Graphene wrapped Copper Phthalocyanine nanotube: Enhanced photocatalytic activity for industrial waste water treatment, M. Mukherjee, U. K. Ghorai, M. Samanta, A. Santra, G. P. Das, K. K. Chattopadhyay, **Applied Surface Science** **418** (2017) **156-162**.
51. Defect Induced Tuning of Photoluminescence Property in Graphitic Carbon Nitride Nanosheets through Synthesis Conditions, D. Das, D. Banerjee, D. Pahari, U.K. Ghorai, S. Sarkar, N.S. Das, K.K. Chattopadhyay, **Journal of Luminescence** (2017) **185** **155-165**

52. Solvent Dependent Phase Transition Between Two Polymorphic Phases of Manganese Tungstate: From Rigid to Hollow Microsphere, Kaustav Bhattacharjee, Satya R. Pati, Gopes C. Das, Kalyan Kumar Chattopadhyay, **Crystal Growth & Design**(2017), *17* (2), pp 719–729.

4. C. Conference / Meeting Organized:

1. Organised Project Advisory Committee Meeting of the Department of Science and Technology (DST), the Govt. of India, on Condensed Matter during 16-19th April, 2017 as Co-ordinator of the programme.
2. Organised 4th International Symposium on Semiconductor Materials and Devices (ISSMD-4), 2017, at Jadavpur University, (Convener –Prof. K.K. Chattopadhyay).

4. D. Book Chapter Written:

1. Hybrid Inorganic Organic Perovskites: A Low-Cost-Efficient Optoelectronic Material, (Chapter 5) **Perovskite Photovoltaics**, Basic to Advanced Concepts and Implementation (2018), Pages 123-162, Diptonil Banerjee and Kalyan Kumar Chattopadhyay, <https://doi.org/10.1016/B978-0-12-812915-9.00005-8>.
2. Diamond-like Carbon: An Efficient Cost Effective Material for Beverage Storing; Diptonil Banerjee and Kalyan Kumar Chattopadhyay Trends in Beverage packaging, Vol. 16 (Elsevier), 2018 (In press).

4. E. Patent Obtained:

1. A nanomaterial including amorphous graphene and nanofluids involving the same with a base medium having significantly enhanced electrical insulation and thermal conductivity, patent number: 201731040823, Application Number: TEMP/E1/41412 /2017-KOL. Inventors : M. Bhunia, P. Chattopadhyay, K.K. Chattopadhyay.

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1. A. Courses Offered: (Name of the Course, Duration of Course, No of Students Enrolled)

- a. UGC-approved Certificate Course on ‘Radio Productions’: 6 months; 20 students (Course Coordinator: Dr. Imankalyan Lahiri)
- b. PhD programme: 3 students

1. B. Number of Faculty Members:

Director: Prof. Partha Pratim Basu, Department of International Relations

Joint Director: Dr. Sujit Kumar Mandal, Department of Comparative Literature

No permanent faculty member; The UGC-approved Certificate Course on ‘Radio Productions’ is taught by 9 teachers from Jadavpur University and 17 from outside the University

2. A. Area of Research Activities: (Broad Areas)

- Media Studies, Communication Studies, Cultural Studies
- Indian Television, Television Studies
- International Communications, Development Communication
- Media and Convergence, Intermediality
- Media, Politics and Democracy
- Media Ethics
- Digital Media, Cybercultures
- Urban Studies
- Performance Studies, Oratures
- Pedagogic Histories and politics
- Children, Youth and Media
- Gender, Sports, Bodies and Sexuality
- Community Radio, Alternative Media Practices

2. B. Research Project (Department/Individual, Name of the Project, Funding Agency):

School's Projects:

1. 'Youth Community Reporter' (Funding agency: UNICEF; Coordinator: Prof. Nilanjana Gupta)
2. Baseline Survey on 'Integration of Community Learning Programme in Skill Development' (Hosted by 'Anamika Roy Memorial Trust' and funded by Commonwealth Educational Media Centre for Asia)
3. Research Project on 'Sport, Sexual Harassment and Discrimination on the basis of Sexual Orientation, Gender Identity and/or Intersexuality' (Funding agency: Ministry of Youth Affairs and Sports, Government of India; Project Director: Dr. Payoshni Mitra, independent researcher)
4. 'Mathematics on Radio' (Funding agency: Dept. of Science & Technology, Govt. of India, Principal Investigator: Prof. Nilanjana Gupta)

The following Projects under the 'University with Potential for Excellence' scheme (phase-II) of the UGC are affiliated to the School:

1. 'Madrasas in India' (Principal Investigator: Prof. Nilanjana Gupta)
2. 'Acropolis: A Study of the Concept of the Global City' (Principal Investigator: Prof. Nilanjana Gupta)
3. 'Dance and Performance' (Principal Investigator: Prof. Nilanjana Gupta)
4. Project 'Interface' on how the newly set up industrial belt in Jharkhand has affected the ethnic cultural heritage of the place (Principal Investigator: Prof. Ipshita Chanda)
5. 'New Media for Change: Multimedia Stories on Under-Reported Issues' (Principal Investigator: Prof. Abhijit Roy)
6. 'Palagaan', a project on 'Folk Performance' (Principal Investigator: Dr. Sujit Kumar Mandal)
7. 'Soundscapes of Kolkata' (Principal Investigator: Dr. Parthasarathi Bhaumik)

The School manages Jadavpur University's Community Radio: 90.8 Community Radio JU (Convener: Prof. Nilanjana Gupta). Launched on 14 April, 2008, 90.8 MHz Community RadioJU is the first of its kind in Eastern India. It provides an interactive platform for students, teachers,

research scholars, staff and local people around JU to showcase their talent, creativity, innovations and community work. Programmes broadcast by the radio station reach listeners within a radius of 10 km around the University. Thematic focus: Education, Sports, Health & Hygiene, Traditional & Folk Song, Culture & Heritage, Music & Entertainment, Child Rights, Law, Drama on Social Issues, Disability Issues, Travel etc. The UGC-approved 6-month certificate course 'Radio Productions' offered by the School uses the resource and expertise of the Community Radio extensively for training students.

3. A. Invited Lectures Delivered/Session Chaired (Name of the teacher, Type of Participants, Name of the Seminar/Conference etc. Place, Duration):

Prof. Partha Pratim Basu

1. Chair, 'Revisiting Naxalbari: A Symposium', organized by Historical Materialists, Jadavpur University, 20 July, 2017.
2. Chair, '200 years of Vernacular Indian Journalism and Mass Communication: Bicentennial Celebration of Bangal Gazetti, the First Vernacular Newspaper in India', organized by MAKAIAS and Kolkata Society of Asian Studies, at Azad Bhavan, MAKAIAS, 28 October, 2017.
3. Chair, 'Seventy Years of Indian Foreign Policy', organized by Jadavpur Association of International Relations, at Ramakrishna Mission Vidyamandir, Belur Math, 3 November, 2017.
4. Chair, 'Marx at 200', organized by Department of History, Jadavpur University, 2 February, 2018.
5. Chair, 'Area Studies and International Relations', organized by School of International Relations and Strategic Studies (SIRSS), JU and Netaji Institute for Asian Studies (NIAS), Kolkata, at Jadavpur University, 7 February, 2018.
6. Chair, lecture by Prof. Mahendra P. Lama at Department of International Relations, Jadavpur University, 7 March, 2018.
7. Chair, 'Indian Foreign Policy', organized by Department of International Relations (under CAS II Programme), Jadavpur University, 10 March, 2018.
8. Chair, session on 'Global Politics' at the Annual Conference of West Bengal Political Science Association, at H M College, Dakshineswar, 18 March, 2018.
9. Participant, panel discussion on 'Development and Conflict: The Problematic of Human Security in the Post Cold War Era', at Department of Political Science, Bhawanipore Education Society College, 31 August, 2017.
10. Lecture on 'Discourse Analysis' at Research Methodology Workshop organized by Department of Economics, Jadavpur University, 8 November, 2017.
11. Lecture on 'India's Foreign Policy: Contemporary Concerns' at the 67th Orientation Programme organized by UGC, HRDC, Jadavpur University, 1 December, 2017.
12. Two lectures on 'Af-Pak Region' and 'India's Internal Security Challenges' in Refresher Course titled 'Peace and Conflict Studies' organized by SIRSS and UGC, HRDC, Jadavpur University, 8 and 19 December, 2017.
13. Lecture on 'Afghanistan' in the Diploma Course on International Understanding for Human Unity at Ramakrishna Mission Institute of Culture, Kolkata, 8 December, 2017.
14. Six lectures on 'Political Theory' at Department of Political Science (Post graduate section), Lady Brabourne College Kolkata, on 11, 13 and 14 December 2017.
15. Lecture on 'Social Sciences and Public Policy Formulation in India' in Refresher Course titled 'Social Sciences, Social Inequalities and Public Policy: Reflections on Contemporary India'

Annual Report 2018-19

- organized by the Department of Sociology and UGC, HRDC, Jadavpur University, 4 January, 2018.
16. Lecture on 'V D Savarkar and Hindutva' at the Department of Political Science, Victoria College, 11 January, 2018.
 17. Lecture on 'Discourse Analysis' at Research Methodology Workshop organized by SIRSS, Jadavpur University and Jadavpur Association of International Relations, Kolkata, 8 November, 2017.
 18. Three lectures in PG Diploma (Evening) Course on 'Human Rights and Duties Education', Department of International Relations, Jadavpur University, 19, 21 and 23 March, 2018.
 19. Lecture on 'Individual Rights in India in the light of Three Recent Judgments of the Supreme Court' in the Refresher Course titled 'Law and Social Change in the 21st Century' organized by HRDC, University of Calcutta, at Hazra Law College, 22 March, 2018.

Dr Sujit Kumar Mandal

1. Resource Person, 65th Orientation Programme organized by UGC-HRDC, JU, 9 August 2017.
2. 'Oral Traditions: Research Methodology', lecture at the Short-term Course (STC) on 'Research Methodology in Social Science and Humanities', organized by UGC-HRDC, JU, 9 November 2017, Department of Economics, Jadavpur University.

Prof. Nilanjana Gupta

1. Chair, keynote session, national conference titled 'Commemorations', Department of History, JU. 1 February 2018.
2. Chair of a session at the national conference on 'Ageing, Ageism and Cultures', Department of English, Centre of Advanced Studies, Jadavpur University. 22 September 2017.
3. Chair, 18th Sukhalata Rao Memorial lecture, School of Women's Studies, Jadavpur University. 23 October 2017.
4. Chair, Fifth Sandipta Chatterjee Memorial Lecture, School of Media Communication & Culture, JU. 15 March 2018.
5. Chair, Keynote Address, international seminar on '9/11 and the Beginning of the End of Liberal Democracy: Fictional Perspectives', Department of English, Centre of Advanced Studies, Jadavpur University. 27 February, 2018.
6. 'Constructing Faux Cities', lecture at the Department of Sociology, JU
7. 'Of Glass Ceilings, Glass Cliffs and Lilavati's Daughters', lecture organized by Department of International Relations and School of Women's Studies, JU
8. 'Regimes of the Visual: Seeing is Believing, Or is it?', lecture at the Department of Comparative Literature, JU
9. 'Role of Media in Disaster', School of Oceanographic Studies, JU

Prof. Abhijit Roy

1. Lecture on 'Early Cinema' at the Film Appreciation Course organized by Maya Art Space. Calcutta, 10 May, 2017.
2. 'Parichay, bhugol o nagarikatar rajniti', first Sujit Choudhury Memorial Lecture organized by Ritwiz Cine Art Society, Karimganj, Assam, 7 June, 2017.
3. 'Film and Television in the Era of Globalization', two lectures at the film appreciation course, Chalachhitra Satabarsha Bhaban, Govt. of West Bengal, Calcutta, 17 July, 2017.

Annual Report 2018-19

4. 'Towards a Critical Agenda for Global Television Studies', joint presentation with Dr. Biswarup Sen, School of Journalism and Communication, University of Oregon, Eugene, US, 18 October, 2017.
5. 'Development of Television Journalism in India', lecture at The Heritage Academy, Calcutta, 17 Nov, 2017.
6. 'Literature and Lore: Storytelling on Television', lecture at the Winter School on 'Literature and the Other Arts' organized by the Department of Comparative Literature, Jadavpur University, 24 November, 2017.
7. 'Media, Policy and Social Inequality in India: Reflections on Contemporary Television', two lectures at the Refresher Course on 'Social Sciences, Social Inequalities and Public Policy: Reflections on Contemporary India', organized by the Department of Sociology, Jadavpur University, 11 January, 2018.
8. 'State, Market and India's Mainstream Media', lecture organized by 'Historical Materialists', Jadavpur University, 7 February, 2018.
9. Four lectures on 'gender and media with special reference to Indian television serials' at the M.Phil programme of School of Women's Studies, Jadavpur University, February 2, 5, 7 and 12, 2018.
10. 'Television, State and Popular Culture in India', two lectures at the 68th Orientation programme, organized by UGC-HRDC, Jadavpur University, 14 February, 2018.
11. Chaired the session on 'Technology, Social Media and Young People' at a two day consultation on Young People's Sexuality in West Bengal, organized by Ebong Alap, Kolkata, and Nirantar, New Delhi. Jadhunath Bhaban Museum and Resource Centre, Calcutta. 17 February, 2018.
12. Chaired a session at the international conference on '9/11 and the Beginning of the End of Liberal Democracy: Fictional Perspectives', Centre of Advanced Study, Department of English, Jadavpur University, 28 February, 2018.
13. Eleven lectures at the M.A. programme in Mass Communication, St. Xavier's University, Calcutta, January-March, 2018. January 5, 19 and 29; February 2, 9, 16, 23 and 27; March 9, 12 and 16.
14. 'Media and Human Rights in India', lecture at the one-year (Evening) PG Diploma course on 'Human Rights and Duties Education', Department of International Relations, Jadavpur University, 9 March, 2018.
15. Chaired a session at the national seminar on 'Partition of India: Contemporary Perspectives' organized by Department of Film Studies, Jadavpur University, in collaboration with Netaji Institute for Asian Studies, Kolkata. 23 March, 2018.

Prof. Dalia Chakraborty

1. Lecture on 'Different Bodies, Different Treats: A Study of Ayurvedic Salsas and Health Drinks', at Sociological Research Unit, Indian Statistical Institute, Kolkata, 17 July, 2017.
2. Lectures on 'Visual Turn in Sociology and Doing Visual Sociology' at 66th Orientation Programme, UGC-Human Resource Development Centre, Jadavpur University, 29 August, 2017
3. Lecture on 'Visual Method in Social Research' in 5-day Workshop on Qualitative Social Research, at Institute of Development Studies, Kolkata, on 18 January, 2018.
4. Lecture on 'Reconfiguring the Space: A Study of New Town, Rajarhat', at Refresher Course organized by Department of Sociology, Calcutta University, on 5 February, 2018

Prof. Amites Mukhopadhyay

Annual Report 2018-19

1. 'Towards a biography of resource conflict in contemporary India: Some reflections' and 'Environment and resource conflicts', two lectures at the Refresher Course on 'Studies in Conflict and Peace' organised by the Department of International Relations, Jadavpur University, December 2017.
2. 'Qualitative Methods of Research', lecture at the Orientation Programme organised by UGC-HRDC Jadavpur University. July-August, 2017.
3. 'Neo-Liberalism and the Middle Class in India', lecture at the Refresher Course on 'Socio-Cultural Transformation: Issues and Insights', Department of Sociology, University of Calcutta, February, 2018.

Prof. Sudeshna Banerjee

1. 'The Archival Turn in the Social Sciences: Re-turning to the Archive', lecture at the PhD Research Methodology Special Lecture Series organized by the Department of Sociology, West Bengal State University, 21 November 2017.
2. 'Mapping the Changing Contours of Historical Research', Second Professor Nisith Ranjan Roy Memorial Lecture organized by the St. Paul's Cathedral Mission College, Kolkata, to mark the centenary year of the History Department of the college, 19 December 2017.
3. 'Muck in the Milk: The Social Life of a Thing in Inter-War Calcutta', special invited presentation as one of the two principal speakers at a symposium on 'Food and Society: A Historical Analysis' organized by Netaji Institute for Asian studies and Jadavpur University, 9 January 2018.
4. Chaired and conducted a technical session on 'Modern India' at the 34th Annual Session of Paschim Banga Itihas Samsad held at Jadavpur University, 24-26 January, 2018.
5. Chaired a session at the international seminar on 'Commemorations' organized by the Department of History, Jadavpur University, 1-2 February 2018.
6. Chaired a session at the national seminar on 'Partition of India: Contemporary Perspectives' organized by the Department of Film Studies, Jadavpur University, in collaboration with Netaji Institute for Asian Studies, 22-23 March 2018.
7. 'Gender and the Nation' lecture at the Orientation Course organized by the UGC-HRDC, Jadavpur University between 21 August and 18 September, 2017.
8. 'Spaces of Inequality' lecture at the Refresher Course on 'Social Sciences, Social Inequalities and Public Policy' organized by the Department of Sociology, Jadavpur University and the UGC-HRDC, JU, between 14 January and 25 January 2018.
9. 'Border Narratives' lecture at the refresher course on 'Peace and Conflict Studies' organized by the School of International Relations, Jadavpur University and UGC-HRDC, JU, between 1 and 22 December 2017.
10. 'Nation, Territory, Borders: A Gender-sensitive Engagement', two lectures at the refresher course on 'International Relations' organized by the UGC-HRDC, Burdwan University, between 3 March and 23 March 2018.

Dr. Imankalyan Lahiri

1. Two lectures every month on 'India's Connectivity through Nepal and Bhutan and North East India', Sasastra Seema Bal, Ministry of Home Affairs, Government of India..

Dr Sayantan Dasgupta

1. 'Travelling with Tintin', lecture at the Winter School on 'Literature and the Other Arts' organized by UGC-HRDC, Jadavpur University, and Department of Comparative Literature, Jadavpur University, 15 November, 2017.
2. Resource Person, CAS Phase III Workshop on 'Comparative Literature: Tracing Journals in India and the World', 23-24 March, 2018
3. Chaired a session at the International Conference on '150 Years of Solitude: Narratives on Canada's Conflicts and Reconciliation', Centre for Canadian Studies, Jadavpur University, 9-11 January, 2018.
4. Invited talks and presentations at the Workshop on 'Humanities in India', University of East Anglia, UK, 28 and 29 March, 2018.

B. Seminar/Workshop/Conference/Symposium Attended: (Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration):

Prof. Partha Pratim Basu

1. Paper titled 'Media and Human Rights in India: A Fraught Partnership', at the national seminar on '200 years of Vernacular Indian Journalism and Mass Communication: Bicentennial Celebration of Bangal Gazetti, The First Vernacular Newspaper in India', organized by MAKAIAS and Kolkata Society of Asian Studies, Azad Bhavan, MAKAIAS, 28 October, 2017.
2. Paper titled 'India Bangladesh Relations at Crossroads' at the international seminar on 'Indo Bangladesh Relations in the 21st Century' organized by Department of Political Science, University of Kalyani, 9 November, 2017.
3. Paper titled 'Rammohun Roy and Nationalism in India' at the 'national seminar on 'The Idea of India in the Minds of Bengalee Intellectuals' organized by Departments of History, Bengali and Political Science, Serampore Girls College, 30 January, 2018.
4. Paper titled 'South Asia: Emerging Areas of Research' at the national seminar on 'Area Studies and International Relations' organized by SIRSS, JU and NIAS, Kolkata, at Jadavpur University, 6 February, 2018.
5. Paper titled 'Revisiting Nehru's Legacy in Indian Foreign Policy' at the national seminar on 'Indian Foreign Policy' organized by Department of International Relations (under CAS II Programme), Jadavpur University, 9 March, 2018.
6. Paper titled 'Secularism in Post independence India: Challenges and Dilemmas' at the national seminar on 'Secularism: Current Trends' at Bijoy Krishna Girls College, Howrah, 16 March 2018.

Prof. Nilanjana Gupta

1. 'Class Influence in Community Spaces for the Elderly', paper co-authored with Anushka Haldar presented at the national conference on 'Ageing, Ageism and Cultures', Department of English, Centre of Advanced Studies, Jadavpur University. September 2017.
2. Keynote Speaker, Graduate Research Meet, Department of Humanities and Social Sciences, IIT Guwahati, 2 November, 2017.

Prof. Abhijit Roy

1. Lecture at the national-level workshop on 'Research Methodology in Humanities and Social Sciences: Contemporary Issues and Challenges', Scottish Church College, Calcutta, 28 April, 2017.

Annual Report 2018-19

2. 'Indian Media, Publics and Mobilization', paper presented at the two-day international conference on 'Indian Media Studies: Contemporary Perspectives', Indian Institute of Advanced Study, Shimla, 26 July 2017.
3. Six lectures at the one-week 'National Workshop on Documentary and Short Film Appreciation' organized by Department of Mass Communication, Assam University, in collaboration with Beekshan Cine Commune, Silchar. Assam University, Silchar, 20 and 21 March, 2018.
4. Four lectures at the four-day 'National Workshop on Television and Documentary Film Production' organized by the Department of Journalism and Mass Communication, Namchi Government College, Namchi, Sikkim, 29 and 30 March, 2018.

Prof. Dalia Chakraborty

1. 'Sociology and Religion', lecture at the inaugural session of the international conference on 'Vaishnavism: Theory and Practice', organized by Centre for the Study of Religion and Society, Department of Sociology, Jadavpur University, 18 December, 2017

Prof. Amites Mukhopadhyay

1. 'Drinking safe, safe drinking: Everyday journey of bottled water in contemporary India' and 'Doing Sociology: Historical sensibilities and sociological practices in institutional context', two papers presented at the 43rd All India Sociological Conference, University of Lucknow 9-12 November 2017.

Prof. Sudeshna Banerjee

1. 'Re-claiming the no-man's land for the *awaam*: Bajrangi Bhaijaan', paper presented at the national seminar on 'Partition of India: Contemporary Perspectives' organized by the Department of Film Studies, Jadavpur University, in collaboration with Netaji Institute for Asian Studies, 22-23 March 2018.

Dr. Imankalyan Lahiri

1. Lecture on 'Scope of Research in South East Asia', national seminar on 'Area Studies and International Relations' organized by SIRSS, JU and NIAS, Kolkata, at Jadavpur University, 7 February, 2018.

Dr. Sayantan Dasgupta

1. 'Comparative Literature in India', paper presented at the national seminar on 'Indian Comparative Literature', Presidency University, Calcutta, 7 February, 2018.
2. Keynote Lecture, workshop on 'Stylistics and Translation', Adamas University, 20 February, 2018.

Chaitali Basu, Project Fellow, project 'Interface' (UGC-UPE phase II)

1. 'Seraikeella Chhau: Performing through Availability in Times of Modernity', paper presented at the international seminar on 'Rethinking Modernity: Interdisciplinary Perspectives', organized by Department of English, Aliah University, Kolkata, in collaboration with Byanjanbarna Foundation. 11 and 12 August, 2018

C. Seminar/Workshop/Conference/Symposium Organised: (Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration):

1. Fifth Sandipta Chatterjee Memorial Lecture titled 'Breaking News or Broken News?' by Sagarika Ghose, Consulting Editor, *The Times of India*. The lecture is organized every year

- by the School in collaboration with Sandipta Chatterjee Memorial Committee, Kolkata. Jadavpur University, 19 March, 2018.
2. Panel discussion titled 'Gauri Lankesh: The Battle Ahead' and launch of the book *The Way I See It: A Gauri Lankesh Reader* ed. Chandan Gowda. The speakers were Anita Agnihotri, Prof. Chandan Gowda, Pamela Philipose and Shikha Mukherjee. The panel discussion was organized by the School in collaboration with South Asian Women in Media, India. Jadavpur University, 29 January, 2018.
 3. Workshops conducted by the 'Youth Community Reporters' project (funding agency: UNICEF)
 - a. Ice breaking workshop on 'Equal opportunity for every Child' (Resource persons: Shuktara Laal, Nilanjana Gupta & Tania Roy), Jadavpur University, 22 April 2017.
 - b. Workshop on 'Safety & Security' (Resource person: Daminee Basu), Jadavpur University, 17 May 2017.
 - c. Workshop on 'Gender Violence' (Resource person: Shoubhik Basu), Jadavpur University, 3 June 2017.
 - d. Workshop on 'Radio Programme: Planning, Recording, Editing and Broadcast' (Resource person: Sumanta Banerjee), Jadavpur University, 24 June, 2017.
 - e. Workshop on 'Respecting Diversity' (Resource person: Sohini Saha), Kulpi, West Bengal, 29 and 30 November 2017.
 - f. Workshop on 'Trafficking and Child Marriage' (Resource persons: Sohini Saha, Srabani Roy & Tania Roy), Sonarpur, West Bengal, 15 and 16 December, 2017.
 - g. Final Workshop and Review Meeting, Jadavpur University, 21 December, 2017.
 - h. Awareness programme as part of outreach activity at Adarsha Balika Bidyalaya, Jadavpur, 19 May, 2017.
 - i. Awareness programme as part of outreach activity in collaboration with the NGO 'Jabala', Bowbazar, 10 June, 2017.
 - j. 5 recording sessions were conducted every month between April and December, 2017 (total 45 recording sessions). Programmes based on these recordings are played every Sunday on 90.8 Community Radio JU.
 - k. 4 video-making workshops (Resource persons: Aditi Roy and Utsav Mukherjee) were conducted during August-September, 2017. 4 short videos were made out of these workshops. The themes were: *Puja prastuti* (4mins 24 secs), *Girls Education* (3 mins 07 secs), *Safety, Security and Cyber Crime* (4 mins 33 secs) and *Child Marriage* (2 mins 28secs)
 4. 'Dance Matters in Kolkata', an installation of archival works focusing on elements of dance history in Calcutta by project 'Performance' (UGC-UPE phase-II) as part of the exhibition titled 'Pickle Factory Season One'. This exhibition was presented by Emami Art in collaboration with the Pickle Factory Dance Foundation. Kolkata Centre for Creativity, 23 February to 5 March, 2018.
 5. Seminar in memory of Late Kalikaprasad Bhattacharya organized by project 'Palagaan' (UGC-UPE-II, Jadavpur University), JU, 27 April, 2017.
 6. Workshop on 'Translating Performance Texts', organized by project 'Palagaan' (UGC-UPE-II, Jadavpur University) in collaboration with CAS (Phase-III), Dept. of Comparative Literature, Jadavpur University, 13-18 November, 2017.
 7. A performance on Rabindranath Tagore by *Kanikadhara* organized by project 'Palagaan' (UGC-UPE-II, Jadavpur University), JU, 8 August 2017.

Prof. Abhijit Roy

Co-convener and coordinator, two-day international conference on 'Indian Media Studies: Contemporary Perspectives', Indian Institute of Advanced Study, Shimla, 25-26 July, 2017.

4. A. Books/ Monographs etc. Published: (Name of the Teacher, Name of the Book, Name of the Publisher)

Prof Nilanjana Gupta

1. Editor (with Pallabi Chakraborty), *Dance Matters Too: Markets, Memories, Identities*, Routledge, New Delhi & London, 2018.
2. Coordinating Editor, *English for All*, Macmillan India, Chennai, 1998. Revised Edition: 2000. Reprinted 13 times. 3rd Edition: 2018.

Dr Sujit Kumar Mandal

1. *Education and Awareness among the Persons with Disability in the Sunderbans Region: A Survey Report* by Manojit Mandal and Sujit Kumar Mandal, Kolkata: Centre for Studies and Rehabilitation of Differently Abled Persons, Jadavpur University, December 2017, ISBN: 978-93-83660-36-0

Dr. Imankalyan Lahiri

1. *Peace, Development and Community: North East India in India's Look East*, Knowledge World, New Delhi. 2017.

Dr Sayantan Dasgupta

1. Editor (with Tapati Mukhopadhyay), *Khristo (Christ): An Annotated Anthology* (2nd edition). Granthan Vibhaga, Visva-Bharati, Kolkata, April 2017.
2. Editor (with Nilanjana Bhattacharya), *Pracin Sahitya by Rabindranath Tagore: Annotated English Translation and Critical Essays*. Granthan Vibhaga, Visva-Bharati, Kolkata. April 2017.

4. B. Articles Published in Journals: (Name of the Teacher, Name of the Articles, Name of the Journal, Date of Publication, Volume)

Prof. Partha Pratim Basu

1. 'The Rise and Decline of Parliamentary Left (2004-2014) and the Future of Democracy in India' in Malyasri Mukherjee and Nivedita Saha (eds), *Rethinking India's Democracy*, New Delhi: APH Publishing, 2017.
2. 'The Indus Water Treaty (1960): Past, Present and Future' in Madhuparna Gupta (ed.) *Non-traditional Security: Problems and Prospects*, Kolkata: Avenel Press, 2017.

Prof Nilanjana Gupta

1. 'Digital Capitalism and Surveillance on Social Networking Sites: A Study of Digital Labour, Security & Privacy for Social Media Users' (with Rianka Roy) in Arpan Kumar Kar, Shuchi Sinha and M. P. Gupta (eds.) *Digital India: Reflections and Practice*, Springer, 2018
2. 'Ganashakti "The Enormous Pair of Bellows": Tracing the History of the Party Organ' in Rakhahari Chatterji and Partha Pratim Basu (eds.) *West Bengal Under the Left 1977-2011*, Levant Books, Kolkata, 2018

Prof. Abhijit Roy

1. 'Performing Democracy: On the Communicative Structure of News Television' in *Culture and Politics in South Asia: Performative Communication* edited by Dev Nath Pathak and Sasanka Perera, Routledge India, July, 2017.

Prof Dalia Chakrabarti

1. *D P Mukerji*, Unit for BA Sociology Hons. programme, Course title: Indian Sociological Tradition. Indira Gandhi National University, 2017

Sayantana Dasgupta

1. 'Comparative Literature in India' in Dorothy Figueira and Chandra Mohan eds. *Literary Culture and Translation: New Aspects of Comparative Literature*. Primus, 2017.
2. 'Locating Krishnabhavini Das: From Bengal to England via France' in Anne Tomiche ed. *Comparatism as a Critical Approach*, Volume 5, Paris. 2017.

5. Collaborative Programmes:

- a. The School was funded and supported for its various projects by: UNICEF; South Asian Women in Media, India; Commonwealth Educational Media Centre for Asia; Ministry of Youth Affairs and Sports, Government of India; Dept. of Science & Technology, Govt. of India, Sandipta Chatterjee Memorial Committee, Kolkata; Anamika Roy Memorial Trust.
- b. The 'Youth Community Reporters' project (funding agency: UNICEF) collaborated with Adarsha Balika Bidyalaya, Jadavpur, and the NGO 'Jabala', as part of its outreach and awareness-generation programmes on various social issues concerning children and the youth.
- c. The UGC-UPE project 'Interface' has been working in close association with the Government Chhau Centre, Seraikella, Jharkhand; Sahapedia (<https://www.sahapedia.org/seraikela-chhau-hansa>); State Museum, Ranchi; Tribal Welfare Research Institute, Ranchi; Jawaharlal Nehru Centenary Tribal Museum; National Consortium for Tribal Arts and Culture.
- d. The UGC-UPE project 'Madrasa' has been conducting field survey throughout India. This year key resources have been collected from various government and private madrasas and also from centres for experiment in the field of Islamic education in Lucknow, Mumbai, Murshidabad district of West Bengal and Hooghly. The regional office of Madrasa Education Board in Malda was also visited.
- e. The UGC-UPE project 'Performance' collaborated with Pickle Factory Dance Foundation and Kolkata Centre for Creativity for 'Dance Matters in Kolkata', an installation of archival works focusing on elements of dance history in Calcutta. The project fellow visited the American Institute of Indian Studies in Gurgaon to explore the Institute's Ethnomusicology Archives. The project used its resources, expertise and network to collaborate with many scholars from across the world and with Routledge, India, for creating the book *Dance Matters Too: Markets, Memories, Identities* edited by Nilanjana Gupta (Principal investigator of the project 'Performance') and Pallabi Chakravorty.
- f. Prof. Abhijit Roy collaborated for research on Global Television Studies with Dr. Biswarup Sen of School of Journalism and Communication, University of Oregon, under the 'Global Oregon Faculty Collaboration Programme'. University of Oregon, Eugene, United States, 28 September-20 October, 2017.
- g. Dr. Sayantan Dasgupta organised various translation workshops and seminars as coordinator of the Centre for Translation of Indian Literatures (CENTIL), Department of Comparative Literature, Jadavpur University, and Principal Investigator of the project 'Anuvad' (UGC UPE phase-II). Some of the collaborators were: Salesian College, Siliguri; Centre for Comparative Literature, Visva-Bharati; Shri Shikshayatan College, Kolkata, Writers' Centre, Norwich; British

Annual Report 2018-19

Centre for Literary Translation, University of East Anglia; Centre for Studies in Latin American Literatures and Cultures, Jadavpur University.

- h. Prof. Dalia Chakrabarti acted as Local Advisor, Field Supervisor and Evaluator for Independent Study Project of Chloe An, as part of the Semester Abroad Programme of World Learning School for International Training, Spring 2017. Project title: 'Chinatown Chow: Exploring How Food Constructs Nations of Identity and Culture in Kolkata'. April –June, 2017.
- i. Dr. Iman Kalyan Lahiri, as the Principal Investigator of the UGC-UPE project 'A study on Education as a Social Security measure in the Tea Gardens of North Bengal and Northeast India' organized a number of programmes in collaboration with various organizations. His project 'Against Women Trafficking' has been funded by the UNICEF and West Bengal Police. He collaborated with Ramakrishna Mission Vidyamandira, Belur, to organize a national seminar on 'Seventy Years of India's Foreign Policy'. The seminar was organized by Jadavpur Association of International Relations and supported by ICSSR and Ministry of External Affairs, Government of India. 2-4 November, 2017.

6. Major Achievements:

1. The four short videos created by the 'Youth Community Reporters' project of the School have been widely distributed and exhibited by the UNICEF across West Bengal for awareness generation among children and youth. The videos were *Puja prastuti* (4mins 24 secs), *Girls Education* (3 mins 07 secs), *Safety, Security and Cyber Crime* (4 mins 33secs) and *Child Marriage* (2 mins 28secs). April-December, 2017.
2. 'Dance Matters in Kolkata', an installation of archival works focusing on elements of dance history in Calcutta created by project 'Performance' (UGC-UPE phase-II) was selected as part of the exhibition titled 'Pickle Factory Season One'. This exhibition was presented by Emami Art in collaboration with the Pickle Factory Dance Foundation in Kolkata. 23 February to 5 March 2018.
3. A short film titled *Daftaripara*, produced by the School as part of the UGC-UPE project 'New Media for Change: Multimedia Stories on Under-Reported Issues' and supervised by Prof. Abhijit Roy, the Principal Investigator of the project, was selected for screening at The Chitpur Local Art Festival, Calcutta. The festival was organized by 'Hamdasti' in association with *The Teleraph* and was supported by the Department of Tourism, Govt. of West Bengal and the India Foundation for Arts. 24 February, 2018.
4. Dr. Sujit Kumar Mandal, Joint Director of the School, was selected by Tokyo University of Foreign Studies, Japan, as a Visiting Associate Professor in January, 2018.

MOBILE COMPUTING & COMMUNICATION

Phone : + 91-33-2335-6122

Director. : Dr. Punyasha Chatterjee

Annual Report 2018-19

E-mail : dir.mobilecomputing@jadavpuruniversity.in

1. **A. Courses Offered :** M. Tech in Distributed and Mobile Computing
Duration: 2 years
Intake: 15

B. Number of Faculty Members: 03 (02 – Permanent, 01 – Contractual)
2. **A. Area of Research Activities :** Distributed and Parallel Computing, Wireless Sensor Networks, Social Network Analysis, Wireless and Mobile Computing, Computation Offloading, Smart Health Care, High Performance Computing, Internet of Things, Big Performance Computing, Internet of Things, Big Data and Cloud Computing, Pervasive Computing Distributed Algorithms, Big Data Storage and Management

B. Major Research Project:
 1. “Remote Health: A Framework for Health care Services using Mobile and Sensor-Cloud Technologies” Funded by Media Lab Asia, Ministry of Electronics and Information Technology,(MeitY), Govt. of India. — Prof. Nandini Mukherjee
 2. “Designing a Framework for Efficient Computation Offloading”, **Funded by** “Mobile Computing and Innovative Applications” under University with Potential for Excellence (UPE) - Phase II, **Sanctioned amount:** 10 lakh (Rs.10,00,000) approx. **Period:** July 2015-March 2018 – Dr. Chandreyee Chowdhury
 3. **Title:** Environmental Monitoring: Testbed of Mixed Wireless Sensor Networks, Funding agency: Department of Science and Technology, Promotion of University Research and Scientific Excellence (DST, PURSE Phase-II), Govt. of India, Period: 4 years w.e.f. 2015, Role: One of the investigators – Dr. Sarbani Roy
 4. **Title:** Performance based Resource Management and Load balancing in Cloud Environment Funding agency: Mobile Computing and Innovative Applications under University with Potential for Excellence (UPE) -Phase II, Jadavpur University, Period: 2015-2018.Role: Dr. Sarbani Roy,Principal Investigator.
3. **A. Invited Lectures Delivered/ Sessions Chaired:**
 1. Invited lecture on “IoT-enabled Remote Healthcare Delivery: Opportunities and Challenges” in a one-day seminar organised by **S.A. Jaipuria College** on 11th January 2018 – Prof. Nandini Mukherjee
 2. Served as a panelist on “Data Analytics on IoT: Applications, Impacts and Vulnerabilities” in the 19th International Conference on Distributed Computing and Networking (ICDCN 2018) held in BHU, Varanasi. - Prof. Nandini Mukherjee
 3. Keynote Speaker in the International Conference on Intelligent Communication and Computational Techniques 2017 (ICCT17) organised by **Manipal University, Jaipur** on “IoT-enabled Remote Healthcare: Opportunities and Challenges” on 22nd December 2017 — Prof. Nandini Mukherjee
 4. Invited lecture on “Routing in Wireless Sensor Networks” and “IPv6-based Wireless Sensor Networks” in a faculty development program organised by **IIT(ISM), Dhanbad** on 19th December 2017 — Prof. Nandini Mukherjee
 5. Invited lecture in a one week workshop on “Practical Perspective towards Big Data in Cloud” organised by Department of Information Technology, Jadavpur University on 12th July 2017 -

Prof. Nandini Mukherjee

6. Invited lecture in a workshop on “IoT and Remote Healthcare” organised by **KIIT University** on 6th and 7th April 2017 — Prof. Nandini Mukherjee
7. Delivered a Lecture on “Convergence of IoT and Cloud”, in a workshop on Role of Computing on Healthcare, sponsored by ITRA, organized by School of Computer Engineering, KIIT University, Bhubaneswar, 23 June 2017 – Dr. Sarbani Roy
8. Delivered a Lecture on “IoT meets Big Data”, in 2-week summer school on IoT and Data Science, jointly organized by Jadavpur University and University of Calcutta, 27 June 2017 — Dr. Sarbani Roy
9. Delivered a Lecture on “Overview of CPS and its uses in societal applications”, in an Inter-disciplinary Refreshers Course on Understanding ICT for Professional Development in Education, 21 December 2017 — Dr. Sarbani Roy

B. Seminar/ Workshop/ Conference/Symposium Attended :

1. 19th International Conference on Distributed Computing and Networking ICDCN 2018 and Workshops at, BHU, Varanasi, January 4-7 2018 – Dr. Sarbani Roy

C. Seminar/ Workshop/ Conference/Symposium Organized:

1. Organised lecture series on “Foundations in Computer Science” from 24th May to 30th May 2017.
2. Organised 2-weeks summer school on “Internet of Things and Data Science” from 27th June to 7th July, 2017 (in collaboration with University of Calcutta).
3. Organised the First International Workshop on “Networking Women in Distributed Computing and Networks” (In conjunction with ICDCN 2018) held on 4th January 2018.

D. Orientation Courses/ Refresher Courses Attended :

1. Refresher Course on “Use of ICT for Professional Development in Education”, Dec 2017, JU – Dr. Punyasha Chatterjee

4. B. Articles Published in Journals/Book Chapters:

1. **A. Ray**, C. Chowdhury, S. Roy, (2017) Strategic decision for crowd-sensing: An approach based on Markov decision process , In the proceedings of Eleventh IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS).
2. Rehena, Zeenat, Sarbani Roy, and **Nandini Mukherjee**. “Multi-criteria Routing in a Partitioned Wireless Sensor Network.” *Wireless Personal Communications* 94, no. 4 (2017): 3415-3449.
3. Sarbani Roy, Paramita Dey and Debajyoti Kundu, Social Network Analysis of Cricket Community Using a Composite Distributed Framework: From Implementation Viewpoint, in *IEEE Transactions on Computational Social Systems*, vol. 5, no. 1, pp. 64-81, March 2018.
4. Tanmoy Maitra and Sarbani Roy, Research Challenges in BAN Due to the Mixed WSN Features: Some Perspectives and Future Directions, in *IEEE Sensors Journal*, Vol. 17, no. 17, pp. 5759-5766, September 2017
5. Benay Kumar Ray, Sunirmal Khatua and Sarbani Roy, A Game Theoretic Model for Cloud Federation, book chapter for *Cloud Computing for Optimization: Foundations, Applications, and Challenges*, Springer, 2018.
6. Chandreyee Chowdhury, Sarbani Roy, Mobile Crowd-Sensing for Smart Cities, book chapter for *Smart Cities: Foundations, Principles and Applications* (Wiley), June 2017.

4. C. Articles Published in International Conferences :

1. Md Faruck, P. Chatterjee: *Air Pollution Detection Using Multisensor Data Fusion*, Networking Women in Distributed Computing and Networks (NWDCN) Workshop in conjunction with International Conference on Distributed Computing and Networking (ICDCN) '18, January 4–7, India.
2. R. Das, S. Mondal and **N. Mukherjee**, “MoRe-care: Mobile-assisted remote healthcare service delivery,” 2018 10th International Conference on Communication Systems & Networks (COMSNETS), Bengaluru, 2018, pp. 677-681.
3. 2. Mandal, Atanu, Sunanda Bose, and **Nandini Mukherjee**. “Impact of Mobility on Community Sensing with Environment Sensors.” In *Signal-Image Technology & Internet-Based Systems (SITIS)*, 2017 13th International Conference on, pp. 396-401. IEEE, 2017.
4. 3. Poly Sil Sen, Shabnam Banerjee, and **Nandini Mukherjee**. 2017. *Ontology-driven Approach to Health Data Management for Remote Healthcare Delivery*. In *Proceedings of the 7th ACM Workshop on ACM Mobile Health 2017 (MobileHealth'17)*. ACM, New York, NY, USA, Article 2, 6 pages.
5. 4. Gupta, Atrayee, and **Nandini Mukherjee**. “Can the Challenges of IOT be Overcome by Virtual Sensors.” In *Internet of Things (iThings) and IEEE Green Computing and Communications (GreenCom) and IEEE Cyber, Physical and Social Computing (CPSCom) and IEEE Smart Data (SmartData)*, 2017 IEEE International Conference on, pp. 584-590. IEEE, 2017.
6. 5. Sen, Uddalok, Madhulina Sarkar, and **Nandini Mukherjee**. “A Heuristic-Based Resource Allocation Approach for Parallel Execution of Interacting Tasks.” In *2017 IEEE 7th International Advance Computing Conference (IACC)*, pp. 764-771. IEEE, 2017.
7. 6. Gupta, Atrayee, Samarpita Sarkar, and **Nandini Mukherjee**. “On uncertainty determination in eHealth sensors.” In *Sensors Applications Symposium (SAS)*, 2017 IEEE, pp. 1-6. IEEE, 2017.
8. 7. Mondal, Safikureshi, and **Nandini Mukherjee**. “A framework for ICT-based primary healthcare delivery for children.” In *Communication Systems and Networks (COMSNETS)*, 2017 9th International Conference on, pp. 525-529. IEEE, 2017.
9. Subhasish Ghosh, Joy Dutta, and Sarbani Roy, SenseDcity: a participatory sensing based approach, in *Proceedings of the Workshop Program of the 19th International Conference on Distributed Computing and Networking (Workshops ICDCN '18)*, ACM, New York, NY, USA, Article 16, 2018.
10. Beepa Bose, Joy Dutta, Subhasish Ghosh, Pradip Pramanick, and Sarbani Roy, Smartphone based system for real-time aggressive driving detection and marking rash driving-prone areas, in *Proceedings of the Workshop Program of the 19th International Conference on Distributed Computing and Networking (Workshops ICDCN '18)*. ACM, New York, NY, USA, Article 27, 2018.
11. Tanmoy Maitra, Sarbani Roy, RSSI-Based Posture Identification for Repeated and Continuous Motions in Body Area Network, in Bhateja V., Coello Coello C., Satapathy S., Pattnaik P. (eds) *Intelligent Engineering Informatics, Advances in Intelligent Systems and Computing*, vol 695, Springer, 2018.
12. Joy Dutta, Pradip Pramanick, Sarbani Roy, Energy-Efficient GPS Usage in Location-Based Applications, in: Satapathy S., Tavares J., Bhateja V., Mohanty J. (eds) *Information and Decision Sciences, Advances in Intelligent Systems and Computing*, vol 701, Springer, 2018.

Annual Report 2018-19

13. Paramita Dey, Agneet Chatterjee and Sarbani Roy, Knowledge based community detection in online social network, 10th International Conference on Communication Systems & Networks (COMSNETS), Bengaluru, pp. 637-642, 2018.
 14. Paramita Dey, Sarbani Roy, Ego Based Community Detection in Online Social Network, In: Negi A., Bhatnagar R., Parida L. (eds) Distributed Computing and Internet Technology. ICDCIT 2018.
 15. Joy Dutta and Sarbani Roy, "IoT-fog-cloud based architecture for smart city: Prototype of a smart building," 2017 7th International Conference on Cloud Computing, Data Science & Engineering Confluence, Noida, 2017, pp. 237-242. doi: 10.1109/CONFLUENCE.2017.7943156
 16. Paramita Dey, Saikat Pyne and Sarbani Roy, Information spreading in Online Social Networks: A case study on Twitter network, in Mobihoc '17 The Eighteenth ACM International Symposium on Mobile Ad Hoc Networking and Computing, 2017.
- 5. Collaborative Programmes :** Lead investigator of a collaborative project titled "Remote Health: A Framework for Healthcare Services using Mobile and Sensor-Cloud Technologies" in which six institutions are participating and Jadavpur University is playing the lead role. The project is funded by ITRA, Media Lab Asia.
- 6. PhD Guidance:**
1. Prof. Nandini Mukherjee — Awarded – 1, Ongoing – 5, Newly registered – 3 (in 2018).
 2. Dr. Sarbani Roy — 3 awarded, 5 registered (no submission or new registration in 2017-2018)

NATURAL PRODUCT STUDIES

Telefax : +91 33 2414-6046

Int. : 2457-2485

Director.: Prof. Pulok K Mukherjee

E-mail : dir.naturalproduct@jadavpuruniversity.in

1. A. Courses Offered:

School of Natural Product Studies has been working on several aspects for development of natural product through their excellent research skill for the benefit of society. Several students are pursuing their PhD programme in the field of natural product research with fellowship from different organizations. Following research scholars are working for their PhD with fellowship from different funding agencies/ organizations:

1. Mr. Amit Kar, Senior Research Fellow, State Fellowship Programme, Govt of West Bengal.
2. Mr. Joydeb Chanda, Project Fellow, UGC-UPE, Phase II, Govt. of India.
3. Mr. Sayan Biswas, Research Assistant in DBT-TATA Innovation Fellowship, Govt. of India.
4. Mr. Subhadip Banerjee, Project Fellow, National medicinal Plants Board, Govt. of India
5. Mr. Akansha Sharma, Project Fellow, Emami Limited, Kolkata, West Bengal.
6. Mr. Bhaskar Das, Junior Research Fellow, DST-India & South Collaborative Research Project
7. Mr. Shibu Narayan Jana, Project Fellow, National medicinal Plants Board, Govt. of India

1. B. No. of Faculty Members:

The following faculty members are associated with the activity of the School, are regular faculties of Dept. of Pharmaceutical Technology, JU

1. Prof. Pulok K. Mukherjee, Director
2. Dr. Pallab Kanti Halder, Joint Director
3. Prof. Sanmoy Karmakar, Professor, Dept. of Pharm. Tech., Jadavpur University, Kolkata

2. A. Departmental Research Activities: (Broad Areas)

Research Areas: Natural Products Research

The School of Natural Product Studies is moving forward for the betterment of the human healthcare through several research works on quality control, standardization, safety, efficacy and validation of herbal medicine with its wider areas to include:

- Traditional medicine inspired drug development
- Screening and evaluation of natural products
- Metabolomic study & chemo profiling of medicinal plants
- Quality control and standardization of herbal medicine
- Formulation of natural products as therapeutic agent
- Lead finding from natural resources
- Safety evaluation and Pharmacovigilance study
- Dissemination of knowledge for promotion of natural products
- Scientific validation of Indian Systems of system including Ayurveda, Siddha, Unani and Homeopathy
- Phyto-chemical and phyto-pharmacological studies for lead finding in natural products from the great ancient treatise of India
- Development of scientific data for evidence based health care claim through traditional medicine

2. B. Seminar/Workshop/Conference/Symposium Organized:

- i) National Seminar on “Ashwagnadha” and Conclave on local health tradition organized by School of Natural Product Studies, Jadavpur University, Kolkata, in association with the Society of Ethnopharmacology, September 9-10, 2017.
- ii) Jointly participated in 18th International congress of International Society for Ethnopharmacology (ISE) and 5th International congress of Society for Ethnopharmacology (SFE INDIA) on Ethnopharmacology and Drug Development: Innovation meets tradition at University of Dhaka, Bangladesh during January 13-15, 2018.

2. C. Major Research Project: (Name of the Teacher–Name of the Project–Funding Agency–Sanctioned order no. & date)

Ongoing Research Project

- Prof. Pulok K. Mukherjee–Development of sensor probes for quantification of active constituents in *Andrographis paniculata* and *Piper nigrum* using Near Infrared Spectroscopy –National Medicinal Plants Board–Sanction order No.Z.18017/187/CSS/R&D/WB-02/2017-18-NMPB-IV A dated 8.01.2018
- Prof. Pulok K. Mukherjee–Investigation of traditional medicines used as anti-infectives and against neurodegenerative Disease–Department of Science and Technology (DST), New Delhi–Sanction order No -DST/INT/South Africa/P-17/2016, dated 15.12.2016

Annual Report 2018-19

- Prof. Pulok K. Mukherjee–Metabolomic study: tools for quality evaluation and validation of Medicinal plants used in Indian systems of medicine–TATA Innovation Fellowship, Department of Biotechnology (DBT), New Delhi–Sanction order No- BT/HRD/35/01/04/2014
- Prof. Pulok K. Mukherjee–Development and evaluation of ‘Varnya’ formulations from the medicinal plants of Ayurvedic importance–Emami Ltd., Kolkata–Sanction order No - R&D/CKK/CG/PRO/2015, Dated 27.10.2015

Completed Research Project

- Prof. Pulok K. Mukherjee–Development of standardized, efficacious and safe herbal preparation for visceral leishmaniasis (Kala-Azar) and study of its chemistry, biology and toxicity–Department of Biotechnology (DBT), New Delhi–Sanction order No -BT/PR4712/PBD/17/2012; dated 14.11.2013
- Prof. Pulok K. Mukherjee–Development of test protocol, standardization and method validation of ADLIV Forte capsules and individual plant extracts–Albert David Limited, Kolkata–Sanction order No -HPK/kmDated 10-1-2017
- Dr. Pulok K. Mukherjee–Novel Drug Discovery and Development Approaches For The Pharmacological Immune Enhancers In Immune Compromised Individuals–Dept. of Science & Technology (DST): India-Brazil-South Africa (IBSA) Trilateral Cooperation Program–F. No:INT/IBSA/01-04/2010(i); dated 18/05/2011

3. A. Invited Lectures Delivered/Session Chaired: (*Name of the Teacher–Type of Participation–Name of the Seminar/Conference etc.–Place–Duration*)

International

- Dr. Pulok K. Mukherjee–Invited Speaker–Synergy Forum on Exploring Synergy in Ayurveda and Traditional Indian Systems of Medicine –University of Bonn, Germany–March 9 -10, 2018
- Dr. Pulok K. Mukherjee–Invited Speaker–Preconference workshop on International Congress of the Society for Ethnopharmacology and Society for Ethnopharmacology, India (ISE-SFEC),–University of Dhaka, Bangladesh–May 21, 2017
- Dr. Pulok K. Mukherjee–Invited Speaker–18th International Congress of ISE & 5th International Congress of SFE-INDIA (ISE SFEC 2018) on Ethnopharmacology and Drug Development: Innovation meets Tradition–Dhaka, Bangladesh–January 13-15, 2018
- Dr. Pulok K. Mukherjee–Invited Speaker–South Africa Annual Pharmacology Conference (SAPHARM-2017) on Regulation and promotion of Traditional Medicine: Indian perspective –University of Free State, South Africa–October 1-4, 2017

National

- Dr. Pulok K. Mukherjee–Invited Speaker–National conference on Current prospective in herbal drug regulations: Global scenario –Sri Ramachandra University, Porur, Chennai–June 29, 2017
- Dr. Pulok K. Mukherjee–Invited Speaker–Drugs from our Ancestors, Drugs from nature: conservation of *Lok Swasthya Parampara* National Conference of Community Health Practitioners on “Conservation of LokSwasthya Parampara”–Department of Pharmaceutical Sciences Rashtrasant Tukadoji Maharaj Nagpur University Nagpur –July 22, 2017
- Dr. Pulok K. Mukherjee–Invited Speaker–Publishing Research in Impact Journals - Big research and better writing–UGC-HRDC, Jadavpur University, Salt Lake Campus, Kolkata–August 24, 2017

Annual Report 2018-19

- Dr. Pulok K. Mukherjee–Invited Speaker–2nd National Seminar on Medicine from our Ancestors: Validation of Traditional medicine and Ethnopharmacology – Global perspective–Sri Satya Sai University of Technology and Medical Sciences, Bhopal, M.P–October 28th 2017
- Dr. Pulok K. Mukherjee–Invited Speaker–Drugs from our Ancestors, Drugs from nature: conservation of *Lok Swasthya Parampara* Lok Swasthya Parampara Samvardhan Abhiyan – Chhattisgarh Paramparagat Vaidya Mahasabha, Dhamtari, Chhattisgarh–January 4, 2018
- Dr. Pulok K. Mukherjee–Invited Speaker–Ethnopharmacology and Validation of Medicinal Plants: *Farm to Pharma* Current Trends in Herbal Drug Discovery & Ethnopharmacology–VES College of Pharmacy, Chembur, Mumbai–23 to 24th Feb 2018

B. Seminar/Workshop/Conference/Symposium Attended:

1. Bioactivity guided fractionation and lipase inhibitory activity of *Momordica charantia* (Bitter gourd): A LC-MS approach in 8th APS International PharmSci Conference, organised by The Academy of Pharmaceutical Sciences during 5 – 7 September 2017 at University of Hertfordshire, Hatfield; Presenting Author: Mr. Joydeb Chanda
2. Traditional Knowledge Digital Library (TKDL): A pathway towards the protection of traditional healers' medical knowledge in a one-day symposium on Traditional Herbal Knowledge in the 21st century: Research, Challenges and Future Prospects organized by UCL School of Pharmacy during September 2017. Presenting Author: Mr. Joydeb Chanda
3. Evaluation of interaction potential of *Tinospora cordifolia* through metabolism mediated cytochrome P450 inhibition assay in 4th convention of SFE INDIA and National symposium on Ashwagandha at Jadavpur University, Kolkata, during 9-10 September 2017. Presenting Author: Mr. Shiv Bahadur
4. LC-MS based metabolomics analysis of two edible *Momordica* species in 4th convention of SFE INDIA and National symposium on Ashwagandha at Jadavpur University, Kolkata, during 9-10 September 2017. Presenting Author: Mr. Sayan Biswas
5. Evaluation of tyrosinase inhibitory potential of standardized extract of Ayurvedic Varnya herb Nagkesar (*Messua ferrea*) in 4th convention of SFE INDIA and National symposium on Ashwagandha at Jadavpur University, Kolkata, during 9-10 September 2017. Presenting Author: Ms. Akansha Sharma
6. Safety assessment of *Cyperus rotundus* extracts through drug metabolizing inhibition studies in 4th convention of SFE INDIA and National symposium on Ashwagandha at Jadavpur University, Kolkata, during 9-10 September 2017. Presenting Author: Mr. Amit Kar
7. Standardization and safety assessment of *Carissa spinarum* extract through CYP450 inhibition study in The South Africa Annual Pharmacology Conference (SAPHARM-2017). Presenting Author: Mr. Amit Kar
8. In-vitro antibacterial activity of some cucurbitaceae family plants against methicillin resistant staphylococcus aureus in 18th International congress of ISE and 5th International congress of SFE INDIA at University of Dhaka, Bangladesh during 13-15 January 2018. Presenting Author: Mr. Joydeb Chanda
9. Investigating herb-drug interactions- the effect of *Swertia chirata* extract on the pharmacokinetics of pioglitazone in rats in 18th International congress of ISE and 5th International congress of SFE INDIA at University of Dhaka, Bangladesh during 13-15 January 2018. Presenting Author: Mr. Shiv Bahadur
10. Synergy of *Lagereria sicereria* against hyperlipidemia by neighborhood approach of network pharmacology in 18th International congress of ISE and 5th International congress of SFE

- INDIA at University of Dhaka, Bangladesh during 13-15 January 2018. Presenting Author: Mr. Subhadip Banerjee
11. Standardization and evaluation of ANTI-HSV-I efficacy of *Carissa spinarum* extract in 18th International congress of ISE and 5th International congress of SFE INDIA at University of Dhaka, Bangladesh during 13-15 January 2018. Presenting Author: Mr. Amit Kar
 12. Optimized p-coumaric acid phospholipid complex improves protection against UVA induced oxidative stress in 18th International congress of ISE and 5th International congress of SFE INDIA at University of Dhaka, Bangladesh during 13-15 January 2018. Presenting Author: Mr. Sayan Biswas
 13. Evaluation of inhibition potential of phela through CYP450 enzyme- A South African traditional medicine preparation in 18th International congress of ISE and 5th International congress of SFE INDIA at University of Dhaka, Bangladesh during 13-15 January 2018. Presenting Author: Mr. Bhaskar Das
 14. Evaluation of tyrosinase potential of standardized extract of indigenous herb *Nelumbo nucifera* in 18th International congress of ISE and 5th International congress of SFE INDIA at University of Dhaka, Bangladesh during 13-15 January 2018. Presenting Author: Ms. Akansha Sharma
- 4. A. Books/Book Chapter/Monographs etc. Published: (Name of the Teacher –Name of the book chapter Published –Date of the publication –Name of the Publisher)**
- Dr. Pulok K. Mukherjee –Evidence based validation of Indian traditional medicine –2017 –World scientific publishing Co. Pte. Ltd. Singapore, 2017, pp. 137-160. ISBN: 978-981-3200-33-3.
- Dr. Pulok K. Mukherjee –Factors to Consider in Development of Nutraceutical and Dietary Supplements –2017 –Academic Press, Tokyo, Japan, 2017. Pp. 653–661: ISBN: 978-0-12-802104-0.
- 4. B. Articles Published in Journals: (Name of the Teacher –Title of The Paper –Name of the Journal, Volume, Year and Page)**
- Dr. Pulok K. Mukherjee–Validation of medicinal herbs for anti-tyrosinase potential–*Journal of Herbal Medicine*, doi.org/10.1016/j.hermed.2018.09.002
- Dr. Pulok K. Mukherjee–Validation of Capsaicin in Indian Capsicum Species Through RP-HPLC–*Indian Journal of Pharmaceutical Education and Research*, 2017; 51(2):337-342
- Dr. Pulok K. Mukherjee–Tyrosinase inhibitory mechanism of betulinic acid from *Dillenia indica* –*Food Chemistry*, 2017, 232, 689-696
- Dr. Pulok K. Mukherjee–Nanoemulsion as a novel carrier system for improvement of betulinic acid oral bioavailability and hepatoprotective activity–*Journal of Molecular Liquids*, 2017, 237, 361-371
- Dr. Pulok K. Mukherjee–Paradigm shift in natural product research: traditional medicine inspired approaches–*Phytochemistry Reviews*, 2017, DOI 10.1007/s11101-016-9489-6
- Dr. Pulok K. Mukherjee–Herb-drug interaction potential of *Berberis aristata* through cytochrome P450 inhibition assay –*Synergy*, 2017, 4, 1–7
- Dr. Pulok K. Mukherjee–Development of Ayurveda – Tradition to trend *Journal of Ethnopharmacology*, 2017, 197, 10-24.
- Dr. Pulok K. Mukherjee –Safety assessment of selected medicinal food plants used in Ayurveda through CYP450 enzyme inhibition study–*Journal of Science and Food Agricultural*. 2017, 97, 333-340

5. Collaborative Programme:

School of Natural Product Studies is working on the development of therapeutic leads from natural resource and has been working with several projects from DST, DBT, UGC, AICTE and others. Several potential collaborations have been made with reputed institutions and industries for academic exchange and product development from natural resources through the quality research work. In this context some Memorandum of understanding [MOUs] has been signed with the respective organizations and Jadavpur University:

Several collaborations have been made from School of Natural Product Studies, Jadavpur University with several institutes and industries as follows in the year of 2017-18 in the field of Natural Product Research:

- **University of Bonn, Germany Regina- Pacis- Weg 3, 53113, Bonn, Germany**, for its AG Synergy Research within the Medicinal Clinic III of the Faculty of Medicine, 2018
- **University of the Free State, Bloemfontein, Republic of South Africa** at the Department of Pharmacology, of Health Science for joint research and exchange programs between both the institutes in the field of natural product research.
- **Indian Institute of Technology, Roorke, Uttarakhand** at Department of Biotechnology for joint research collaboration between both the institutes in the field of medicinal plant research.
- **ICMR-National Institute of Traditional Medicine, Balagavi, Karnataka & Jadavpur University**, School of Natural Product Studies, for joint research collaboration between both the institutes in the field of medicinal plant research and drug development since 2017.
- **Emami Limited**, 13, BT Road, Kolkata, West Bengal, India, collaborative project on “Development and evaluation of ‘Varnya’ formulations from the medicinal plants of Ayurvedic importance” through the Industry Institute Partnership cell of Jadavpur University.

6. Major Achievements:

Publications:

Total publication [Peer Reviewed Journals with Impact Factor]	:	205
Cumulative impact factor	:	235
h - Index	:	60
i10 Index	:	247
Number of total citation of the published articles	:	16475
Total Scientific abstract in International & National conferences	:	205
Books/ Book Chapters/ Proceedings	:	37
Professional articles	:	22

- School of Natural Product Studies successfully published more than 7 research papers in peer reviewed journal and 2 book chapters in session year 2017-2018.
- TATA Innovation Fellowship, Department of Biotechnology, New Delhi, Govt. of India (vide letter ref no. BT/HRD/35/01/04/2014).
- NASI - Reliance Industries Platinum Jubilee Award (2018) in Biological Sciences
- Associate editor of Journal of Ethnopharmacology, Official Journal of the International Society for Ethnopharmacology, An Interdisciplinary Journal Devoted to Indigenous Drugs, published by Elsevier Science; renewal of the contract has been made.

Annual Report 2018-19

- Member of the Programme Advisory Committee (PAC), DST- on Plant Sciences for the Science & Engineering Research Board (SERB), Dept of Science & Technology, Govt of India, New Delhi.
- Member of the Expert Group of Department of Biotechnology (DBT) ,on “Translational Research for Products and Processes from Medicinal and Aromatic Plants” of Department of Biotechnology, Ministry of Science & Technology, New Delhi.
- Member of the Programme Screening Committee (PSC), National Medicinal Plant Board (NMPB), Ministry of AYUSH, Govt. of India, New Delhi on research and development under central sector scheme on conservation, development and sustainable management of medicinal plants.

Editor/Editorial Board Members of International/National Peer Reviewed Journals

- i) **Associate Editor, Journal of Ethnopharmacology**, International journal on botanical research, published by Elsevier Science, the Netherlands 2003 onwards.
- ii) **Phytomedicine**, an International journal of phytotherapy and phytopharmacology; published by Elsevier Science, the Netherlands.
- iii) **Phytochemical Analysis**, an International journal on development, improvement, validation of analytical methodology in plant sciences; published by John Wiley & Sons Ltd., U.K.
- iv) **Journal of Herbal Medicine**, an International Journal emphasizing on the herbal therapeutics, phytomedicine, medicinal plants in healthcare, clinical trials and pilot studies, biological and pharmacological effects of plant extracts.; published by Elsevier Science, the Netherlands.
- v) **Synergy**, an international journal on application of the principle of “synergy” at the molecular, cellular and organismic levels in the prevention and treatment of disease; published by Elsevier Science, the Netherlands.
- vi) **Journal of Integrative Medicine (JIM)**, an international journal to promote complementary and alternative medicine (CAM), published by Elsevier Science.
- vii) **Combinatorial Chemistry & High Throughput Screening**, an international journal on Chemical biology in the field of High Throughput Screening, Combinatorial Chemistry, Chemoinformatics, Laboratory Automation and Compound management for advancing in drug discovery research; published by Bentham Science. Chennai, India.
- viii) **Journal of Pharmaceutical Analysis**, an International journal, on quantitative and qualitative technique in pharmaceutical analysis, published by Elsevier on behalf of Xi’an Jiaotong University, China.
- ix) **Journal Oriental Pharmacy and Experimental Medicine [OPEM]**, an International journal on clinical applications of traditional medicine pharmacology & toxicology of natural products published by Springer, Institute of Oriental Medicine, South Korea.
- x) **Indian Journal of Traditional Knowledge [IJTK]**, Journal on biological activities of the materials from plants, animals and minerals, used in AYUSH and Folk-remedies, published by National Institute of Science Communication & Information Resources, CSIR, New Delhi. Medicinal & Aromatic Plants Abstracts.
- xi) **Indian Drugs** an Indian journal on Pharmaceutical Technology, published by Indian Drug Manufacturers’ Association, Worli, Mumbai, India.
- xii) **Indian Journal of Pharmaceutical Education and Research (IJPER)**, Indian journal on pharmaceutical technology and research, published by Association of Pharmaceutical Teachers of India (APTI).

NUCLEAR STUDIES AND APPLICATION

Phone	: +91 33 2335-5813
Int.	: 6159 (SL Campus)
Director.	: Prof. Amitava Gupta

Annual Report 2018-19

E-mail : dir.nuclearstudies@jadavpuruniversity.in

1. **A. Courses Offered :** (Name of the Course, Duration of the Course, No of Students Enrolled)
Master of Nuclear Engineering : 4 semesters, 18 students in each batch
PhD (Engg.): Presently 01 registered research scholars and 3 research fellows
1. **B. Number of Faculty Members:Sanctioned 03**(Associate Professor- 1AssistantProfessor–2)
2. **A. Area of Research Activities :** (Broad Areas)
 - a. Reactor Control
 - b. Nuclear and Reactor Instrumentation
 - c. Reactor Thermal Hydraulics
 - d. Structural Integrity of Reactor Components
2. **B. Major Research Project :**
Departmental / Individual along with the names of Co-ordinator(s)/Investigator(s)
Name of the Project–Funding Agency
Niraj Sinha, PrabhatMunshi (IIT Kanpur);Amitava Gupta(JadavpurUniversity,Kolkata) Indigenously Developed Spectroscopic Radiation Portal Monitors for National Security MHRD & DRDO
3. **A. Invited Lectures Delivered/Sessions Chaired:** (*Name of the Teacher–Type of Participation–Invited Lecture/Session chaired/Panel expert/Keynote address–Name of the Seminar/Conference–Place–Duration*)
Prof. Amitava Gupta–Invited Lecture–Short Course on Nuclear Power Engineering, BUET, – Bangladesh University of Engg. and Technology(BUET)–November 22-26 ,2017
Prof. SwarnenduSen–Invited Lecture–Short Course on Nuclear Power Engineering, BUET, – Bangladesh University of Engg. and Technology(BUET)–November 22-26 ,2017
3. **B. Seminar/Workshop/Conference/Symposium Attended/Paper Presented:**
(*Name of the Teacher–Title of the Paper Presented–Name of the Seminar–Place – Duration*)
Prof. Amitava Gupta–Nuclear Security Education @ Jadavpur University –Nuclear Security Curriculum Review Workshop for Indian Universities–Amity University,Noida Campus–June 1-32017
4. **Articles Published in Journals: (Including National/International & Peer-reviewed Journals)**
(*Name of the Teacher, Name of the Articles, Name of the Journal,Date of Publication, Volume*)
 1. D.K.Yadav, **A. Gupta**, P.Munshi, Non linear Dynamic Inversion based controller design for load following operations in Pressurized Water Reactors with bounded Xenon oscillations, *Nuclear Engineering and Design*, **328**: 341-354, 2018.
 2. D.Bose, **S. Banerjee**,M.Kumar,P.P.Marathe, S. Mukhopadhyayand **A. Gupta**, An Interval Approach to Nonlinear Controller Design for Load-Following Operation of a Small Modular Pressurized Water Reactor,*IEEE Transactions on Nuclear Science*, **64**(9): 2474-2488, 2017.
 3. **Chakravarty, A.**, Datta, P., **Ghosh, K.**, **Sen, S.**,Mukhopadhyay, A., Mixed convective heat transfer in an enclosure containing a heat-generating porous bed under the influence of bottom injection,(2018) *International Journal of Heat and Mass Transfer*, 117, pp. 645-657.

Annual Report 2018-19

4. Datta, P., **Chakravarty, A., Ghosh, K.**, Mukhopadhyay, A., **Sen, S.**, Modeling of steam–water direct contact condensation using volume of fluid approach(2018) *Numerical Heat Transfer; Part A: Applications*, 73 (1), pp. 17-33.
 5. Datta, P., **Chakravarty, A., Ghosh, K.**, Mukhopadhyay, A., **Sen, S.**, Dutta, A., Goyal, P., Thangamani, I., Modeling and analysis of condensation induced water hammer(2018) *Numerical Heat Transfer; Part A: Applications*, . Article in Press.
 6. Datta, P., **Chakravarty, A., Ghosh, K.**, Mukhopadhyay, A., **Sen, S.**, Modeling aspects of vapor bubble condensation in subcooled liquid using the VOF approach(2017) *Numerical Heat Transfer; Part A: Applications*, 72 (3), pp. 236-254.
 7. **Chakravarty, A.**, Datta, P., **Ghosh, K., Sen, S.**, Mukhopadhyay, A., Thermal Non-equilibrium Heat Transfer and Entropy Generation due to Natural Convection in a Cylindrical Enclosure with a Truncated Conical, Heat-Generating Porous Bed(2017) *Transport in Porous Media*, 116 (1), pp. 353-377.
- 5. Collaborative Programmes:**
- IIT Kanpur through the IMPRINT program of MHRD
- 6. Major Achievements:**
- The School of Nuclear Studies and Applications (SNSA) successfully completed the sponsored PhD program with M/s Framatome (FRANCE), formerly with M/s AREVA (FRANCE)

OCEANOGRAPHIC STUDIES

Telefax	: +91 33 2867-1048
Int.	: 2457-2217
Director.	: Prof. Sugata Hazra
E-mail	: dir.oceanography@jadavpuruniversity.in

Courses Offered:

- M. Phil in Oceanography & Coastal Management–(4 Semester) **in take 10 (13)**
- P.G. Diploma in Remote Sensing GIS – (2 Semester) **in take 30**
- EDUSAT based Certificate courses on Remote Sensing and GIS with Indian Institute of Remote Sensing, Dehradun –(One Semester) in distance mode **in take 20 X2**
- Ph.D. level coursework
- Subject oriented courses offered to various Departments and Universities/ Govt. Institutes / Departments

Ph.D. (2017-18) Awarded : 2 Submitted : 2 , Ongoing 17

Number of Faculty Members :

Sanctioned: 6 (P2, As.P1, Ast. P 3) Vacant: 4 (P 1, Asso.P1, Asst. P 2)

Emeritus Scientist: 1 Visiting Scientist: 1

- Awards/ Service to Govt. / Expert Committees etc.

Prof. Sugata Hazra

- Member, State Coastal Zone Management Authority, nominated by Govt. of India

Annual Report 2018-19

- Member, National Preparatory Committee on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction to UNCLOS

Prof. A. D. Mukherjee (Emeritus Professor)

- Chairperson, NAAC Peer Team
- General Secretary, National Council of Education, Bengal

Dr. Tuhin Ghosh

- Invited to act as Lead Author for *Chapter 4: Sea Level Rise and Implications for Low Lying Islands, Coasts and Communities* of the IPCC Special Report on the Ocean and Cryosphere in a Changing Climate
- Resource Person, Administrative Training Institute, Govt. of West Bengal
- Guest Speaker for NRDMS, DST Sponsored Training on “Geospatial Technology and Its Application (GeoTiA-2017)” on 4th April 2017, TISS - Mumbai

Research Projects (2017-18): [Names (P.I.)–Name of the Project–Year –Funding Agency–Grant in lakh]

Prof. Sugata Hazra

- Study of Energy Budget and its effect on Carbon fluxes in East Kolkata Wetlands – A Ramsar Site–2016-2019–NRSC, Govt. of India–57 lakhs
- Geospatial assessment of mangrove’s species discrimination in Indian Sundarbans, their health and its effect on environment and climate using airborne hyperspectral (AVIRIS NG) and RISAT-I remote sensing data–2017-2020–SAC, Govt. of India–50 lakhs
- Identification Of Potential Hydrocarbon Bearing Traps In Nagaland Using Airborne Radar Imaging And Risat-1 Satellite Data–2018-2020–SAC, Govt. of India–23 lakhs
- Vulnerability Assessment of Mangroves and Corals of West Bengal, Odisha and Andaman Islands–2017-2020–DST, Govt. of India–70 lakhs
- Bio Optical Studies and Ecological Modelling in case II water of West Bengal Coast towards Hilsa Fishery Forecast –2013-2017–INCOIS, Govt. of India–69.306 lakhs (Instruments Separate)
- Study of Carbon dynamics in Estuarine and near shore waters of Hugli estuary and East Kolkata wetlands–2013-2018–NRSC, Govt. of India–1 Crore
- Tidal Energy Resource Mapping in Sundarbans Biosphere Area–2016–Prosperity Fund ,UK –29 lakhs
- Enhancing adaptive capacity and resilience to climate change of small and marginal farmers in Purulia and Bankura district West Bengal –2015-2019–NABARD (through DRCSC) –27 lakhs
- Enhancing quality, access, and governance of undergraduate education in India”, Funded by European Commission, through British Council, India, (Joint Faculty coordinator)–2013-17 –European Union (Through British Council)–1 Crore
- Tidal energy for village electricity supply in Indian Sundarban biosphere (Co PI with IIT ,KGP) –2017-2020–DST-UKIERI–23 Lakhs

Prof. Gautam K.Sen

Study of Tidal Dynamics and Interaction with surge in Sundarban Estuary–2015-2017 – INCOIS. MoES, GoI–23.34 lakhs

Dr Tuhin Ghosh

DEltas, vulnerability and Climate Change: Migration and Adaptation (DECCMA)–2014-2018 –DfID, UK and IDRC Canada –Approx.–15 Crores

Bijon Kumar Saha

Book writing project on “Marine Geology of the Andaman Sea”–2012-2017–MoES.GoI–15 lakhs

Publication (2017-18) in Alphabetical Order :

Barik, J., Mukhopadhyay, A., **Ghosh, T.**, Mukhopadhyay, S. K., Chowdhury, S. M. and **Hazra, S.** (2017) Mangrove species distribution and water salinity: an indicator species approach to Sundarban. *Journal of Coastal Conservation*, Springer (IF: 0.959) (ISSN 1400-0350; DOI 10.1007/s11852-017-0584-7)

Bhattacharyya, S., Chanda, A., Das, S., Akhand, A., Pattanaik, S., Choudhury, S. B., Dutta, D., **Hazra, S.**, 2018 ‘Nutrient removal vis à vis change in partial pressure of CO₂ during post-monsoon season in a tropical lentic and lotic aquatic body: a comparative study’, *Earth Systems and Environment*, <https://doi.org/10.1007/s41748-018-0045-y>

Biswas, P., Bhattacharya, T., Chanda, A., Das, S., **Hazra, S.** (2018) Urban Wetlands – CO₂ sink or source? A case study on the aquaculture ponds of East Kolkata Wetlands, *International Journal of Recent Scientific Research*, vol. 9, no. 2, 24158-24165, <http://dx.doi.org/10.24327/ijrsr.2018.0902.1608>

Chakraborty, P., **Hazra, S.**, Chanda, A., Das, S., 2018 ‘Variability of Na⁺, K⁺-ATPase activity and location of chloride cells in the gills of tenualosa ilisha in response to different salinity zones of Bhagirathi-Hooghly river system, West Bengal, India’, *International Journal of Recent Scientific Research*, vol. 9, no. 3, pp. 25110-25114, <https://doi.org/10.24327/IJRSR>.

Chanda, A., Das, S., Mukhopadhyay, A., Ghosh, A., Akhand, A., Ghosh, P., **Ghosh, T.**, Mitra, D., **Hazra, S.**, 2018. Sea surface temperature and rainfall anomaly over the Bay of Bengal during the El Niño-Southern Oscillation and the extreme Indian Ocean Dipole events between 2002 and 2016. *Remote Sensing Applications: Society and Environment*, 12, 10-22. (IF: 1.342) <https://doi.org/10.1016/j.rsase.2018.08.001>

Das, I., **Hazra, S.**, Das, S., Giri, S., Chanda, A., Maity, S., Ghosh, S 2018. Trophic level modelling of the coastal waters of the northern Bay of Bengal, West Bengal, India. *Fisheries Science*, <https://doi.org/10.1007/s12562-018-1246-x>

Datta Majumdar, S., **Hazra, S.**, Giri, S., Chanda, A., Gupta, K., Mukhopadhyay, A., Dam Roy, S. 2018. Threats to coral reef diversity of Andaman Islands, India: A review. *Regional Studies in Marine Science*, 24, 237-250, <https://doi.org/10.1016/j.rsma.2018.08.011>

Gupta, K., Mukhopadhyay, A., Giri, S., Chanda, A., Datta Majumdar, S., Samanta, S., Mitra, D., Samal, R. N., Pattnaik, A.K., **Hazra, S.** (2018). An Index for discrimination of mangroves from non-mangroves using LANDSAT 8 OLI imagery. *MethodsX*, 5, 1129-1139. <https://doi.org/10.1016/j.mex.2018.09.011>

Hajra, R. and Ghosh, T. (2018) Agricultural productivity, household poverty and migration in the Indian Sundarban Delta. *Elem Sci Anth*. 6(1):3. DOI: <http://doi.org/10.1525/elementa.196>
<https://doi.org/10.1016/j.scitotenv.2018.03.234>
<https://doi.org/10.1016/j.scitotenv.2018.05.076>

Mortreux, C., Campos, R.S., Adger, W.N., Ghosh, T., Das, S., Adams, H., **Hazra, S.** (2018) Political economy of planned relocation: A model of action and inaction in government responses. *Global Environmental Change*, Elsevier Vol 50, p.123-132. <https://doi.org/10.1016/j.gloenvcha.2018.03.008>

Mukherjee, J., Padmavati, G. and **Ghosh, T.** (2018) Spatial and Diurnal Variability in Primary Productivity and Composition of Phytoplankton in the Coastal Waters of South Andaman. *IJRASET*, Vol. 6, Issue III. p. 3407-3417

Mukhopadhyay, A., Ghosh, P., Chanda, A., Ghosh, A., Ghosh, S., Das, S., **Ghosh, T.** and **Hazra, S.** (2018) Threats to coastal communities of Mahanadi delta due to imminent consequences of erosion – Present and near future. *Science of the Total Environment*, Elsevier, Vol 637-638 p. 717-729.

Ray, S. S., Das, D., **Ghosh, T** and Ghosh, A. K. (2017). Influence of Zinc and Molybdenum Contents in Soil and Drinking Water for the Development of Esophageal Cancer: A Cross Continental Study. *International Journal of Sciences: Basic and Applied Research (IJSBAR)*, Volume 31, No 2, pp 219-225. ISSN 2307-4531 (Print & Online)

Shaher S, Chanda A, **Hazra S**, Mukherjee AD (2018) Status of Methane Emission from Indian Wetlands (Saline vs. Freshwater): A Mini Review. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* <https://doi.org/10.1007/s40011-018-1005-x>

Sinha, R., Das, S. and **Ghosh, T.** (2018) Pollution and its consequences at Ganga Sagar mass bathing in India. *Environment, Development and Sustainability (Springer)*. <https://doi.org/10.1007/s10668-018-0255-3>

Suckall, N., Tompkins, L E, Nicholls, R J, Kebede, S A, Lazar, N A, Hutton, C, Vincent, K, Allan, A, Chapman, A, Rahman, R, **Ghosh, T**, Mensah, A. (2018) A framework for identifying and selecting long term adaptation policy directions for deltas. *Science of the Total Environment*, Elsevier, Vol 633, p. 946-957.

Books/Monographs:

Dr. Tuhin Ghosh:

Book published: *Natural Hazards Management in Asia*; Sage Publishing (along with Dr. Indrajit Pal from Asian Institute of Technology, Bangkok, Thailand).

Seminar Organization / Presentation /Invited Lectures / Visits

Dr. Tuhin Ghosh

International Conference:

- JpGU-AGU Joint Meeting at Makuhari, Tokyo, Japan during 20-25 May 2017.
- AGU Fall meeting at San Francisco, USA during 15-22 December 2017
- International Expert Forum: Mainstreaming Resilience and Disaster Risk Reduction in Education during 1 - 2 December, 2017 at AIT-Thailand.
- Tenth Global Studies Conference and Global Studies Research Network At National University of Singapore, during 8-9 June 2017
- General Assembly 2018 of the European Geosciences Union at Vienna, Austria during 8–13 April 2018.
- 11th GEOSS Asia-Pacific Symposium during 24-26 October 2018 in Kyoto, Japan.

Invited Lectures:

- International Expert Forum: Mainstreaming Resilience and Disaster Risk Reduction in Education during 1 - 2 December, 2017 at AIT-Thailand. Invited as a Panellist.
- Key note speaker in the 2nd International Conference on Challenges in Social Science Research (CSSR-2018) during 27-28 September 2018 at Bangkok, Thailand

Prof. Sugata Hazra

Annual Report 2018-19

Visited University of Edinburgh (UK) in August 2017 for the UKIERI DST project meeting on Tidal Energy in Sundarbans

Attended discussion on joint research with BUET and University of Southampton at Dhaka, Bangladesh in February 2018

Invited Lectures :

Invited to deliver P.S.Pisharoty Memorial lecture at the Space Application Center, Ahmedabad on March 26, 2018

Popular lectures in Radio and TV on Oceanic Resource and Hazard

Refresher Courses on Climate Change and Disaster Management in /outside the University

STUDIES IN ENVIRONMENTAL RADIATION AND ARCHAEOLOGICAL SCIENCES

Int. : 2457-2527

Director : Prof. Argha Deb

E-mail : dir.eras@jadavpuruniversity.in

B. Number of Faculty Members : 4 (four), No permanent faculty

2. A. Area of Research Activities:

(I) Study on alpha radioactivity in natural media

(II) Real time radon monitoring in air, water, soil for seismic surveillance

(III) Studies on Radiation resistant microbes

2. B. Major Research Projects: (Project Title–Funding Agency) (Ongoing)

1. Real Time Radon Monitoring for Seismic Surveillance–UGC (UPE-II)

3. B. Seminar/Workshop/Conference/Symposium Attended:

i. 6th International Conference on Ecotoxicology and Environmental Sciences (ICEES-2018), 19-21 February, 2018

ii. Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018

iii. 25th West Bengal State Science and Technology Congress, 2018. Science City Auditorium, Kolkata. 4-5 March 2018.

4. B. Articles Published in Journals:

i. Deb A., Gazi M., Bhoumik G., Naskar A., Barman C., Exposure to underground radon in and around Kolkata Municipal Corporation area: an exhaustive study. *Journal of Radioanalytical and Nuclear Chemistry*, 311 (2017) pp. 375-384, DOI: 10.1007/s10967-016-5046-4

ii. Chowdhury S., Deb A., Nurujjaman M., Barman C., Identification of pre-seismic anomalies of soil radon-222 signal using Hilbert–Huang transform. *Natural Hazards* 87 (2017), pp. 1587-1606, DOI: 10.1007/s11069-017-2835-1

iii. A. Naskar, M. Gazi, C. Barman, S. Chowdhury, M. Mondal, D. Ghosh, B. Singha, A. Deb, Estimation of underground water radon danger in Bakreswar and Tantloi Geothermal Region, India, Published in *Journal of Radioanalytical and Nuclear Chemistry*. 315(2018) 273-283. <https://doi.org/10.1007/s10967-017-5668-1>

- iv. Das, B., Deb, A., Chowdhury, S, Radiological impact of some common foods of Southern Part of West Bengal, India, Radiation Protection Dosimetry,179(2018), pp. 169-178

4. C. Papers Presented in Conference:

- i. **S. Chowdhury, C. Barman, A. Deb, D. Ghose, B. Sinha.** Soil Radon Exhalation Study in Bakreswar-Tantloi Geothermal Region of West Bengal and Jharkhand, India.6th International Conference on Ecotoxicology and Environmental Sciences (ICEES-2018).NetajiSubhas Institute of Technology, New Delhi. 19-21 February, 2018.
- ii. **Arindam Kumar Naskar, Javed Akhter, Saheli Chowdhury, Mitali Mondal, Argha Deb, Lalu Das,** Risk Assessment Of Radon In Drinking Water In & Around Susunia Hill Area, West Bengal, Conference on Ecotoxicology and Environmental Sciences (ICEES-2018).NetajiSubhas Institute of Technology, New Delhi. 19-21 February, 2018.
- iii. **S. Chowdhury, A. Deb, C. Barman, D. Ghose, B. Sinha.** Study of Radon Exhalation from soil in Bakreswar Thermal Spring Region of West Bengal, India.25th West Bengal State Science and Technology Congress, 2018. Science City Auditorium, Kolkata. 4-5 March 2018.
- iv. **S. Chowdhury, A. Deb, C. Barman, D. Ghose, B. Sinha.** Soil radon mapping of Bakreswar Geothermal Region of West Bengal. Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018.
- v. **Arindam Kumar Naskar, Javed Akhter, Mitali Mondal, Argha Deb,** The Influence of Meteorological Parameters on Radon Levels in Soil Gas, Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018.

5. Collaborative Programmes:

- I. Jadavpur – N.I.T. Sikkim Collaboration
- II. Jadavpur – Diphu Govt College Collaboration
- III. Jadavpur - Bose Institute Collaboration

WATER RESOURCES ENGINEERING

Phone : + 91-33-2414-6161
 Int. : 2457 2485
 Director: Prof. Asis Mazumdar
 E-mail : dir.waterresource@jadavpuruniversity.in

1. A. Courses Offered: (Name of the course, Duration of the course, No. of students enrolled)

Programme	Level of study	Total no.of students	Year of Commencement
4 Semester M.E. (Water Resources and Hydraulic Engineering)	Postgraduate	18 per year [GATE: 10(Gen)+ 3(SC/ST Sponsored: 5]	2003(Approved by AICTE in 2003)
6 Semester M.E. (Water Resources and Hydraulic Engineering)	Postgraduate	18 per year [All Self Sponsored]	2011(Approved by AICTE in 2010)
Ph.D.(Engineering /Science)	Doctoral	23 (at present)	1987

1. **B. Number of Faculty Members :** Six (6):4 (Permanent)+1(Contractual) + 1 (Professor Emeritus)
2. **A. Area of Research Activities: (Broad Areas)**
 1. Development of Model for Arsenic Sludge Safe Disposal
 2. Artificial Recharging of Aquifer
 3. Limnological Study with special emphasis on Thermal Stratification in Turbulent Structure
 4. Riverine Bank Stability Analysis
 5. Soil Moisture Conservation
 6. Soil Water Plant Relationship
 7. Surge Profiles for Water Intake Pump System of a Thermal Power Plant
 8. Sedimentation Transport Mechanism
 9. Fluvial Hydraulics
 10. Impact of Forested Watershed on Stream Flow and Water Quality
 11. Impact of Leaching from Municipal Solid Waste Dumping Station on an Urban Watershed
 12. Pressure Transients Analysis in a Metro City Water Supply System
 13. Simulation and Water Assessment of Indian River Basins with Distributed and Lumped Modeling
 14. Artificial Neural Network Analysis (ANN) for Riverine and Channel Flow Systems
 15. Groundwater Flow Simulation by Ground Water Modeling System (GMS) and in-situ Validation by Vertical Electrical Sounding (VES)
 16. Development of Low Cost Model for Filtration Unit in a Rural Community
 17. Impact of Climate Change on Water Resources
 18. Urban Hydrology including Storm Drainage
 19. Rainwater Harvesting
 20. Irrigation and Drainage Development Plan
 21. Sewer Transport System
 22. River Basin Development
 23. Wetland Management and Development
 24. Investigation of Feasibility of Inland Water Transport
 25. Development of Alternative Energy Sources, e.g., Tidal Power, Pump Storage Plants, Micro Hydel Plants etc.
 26. Investigation of the Drinking Water Supply System.
 27. Investigation of the Contamination of Groundwater Sources in West Bengal
 28. Design and Development of Source and Water Intake System for Drinking Water Supply and Treatment Plant.
 29. Development of Low Cost Potable Water Supply System
 30. Watershed Management
 31. Initiation of Benchmarking of Irrigation Projects for Performance Improvement
 32. Study of Travel of Pollutant from on Site Sanitation Leach Pits

2. B. Major Research Project/Consultancy Project: (Departmental/Individual–Name of the Project–Funding Agency)

- School of Water Resources Engineering–Indian-European Union Research Project Energy Efficient, community based water and wastewater treatment systems for deployment in India –DST, IMRCDC, Govt. of India
- Non-Departmental–Study on Improving Benefit Transfer for Wetland Valuation: Water Environment and Economic Value of Ecosystem Services through People Participation in Bhagirathi-Hooghly Basin–UGC, Govt. of India
- School of Water Resources Engineering–Study To Develop Appropriate Methods For Safe Disposal Of Arsenic-Rich Sludge–DST (Govt. of West Bengal)
- School of Water Resources Engineering–Proof Checking of STP, LS and Sewerage Network for Halisahar & Budge Budge Municipal Town –Simplex Infrastructures Ltd
- School of Water Resources Engineering–Environmental Impact Assessment for the Proposed Elevated Corridor from E.M. By-Pass to New Town–West Bengal Housing Infrastructure Development Corporation Ltd., Govt. of West Bengal
- School of Water Resources Engineering–Feasibility Study of Canopy Walk at Sundarban Wild Animal Park, Jharkhali–West Bengal Zoo Authority, Govt. of West Bengal
- School of Water Resources Engineering–Performance evaluation of Arsenic and Iron Removal Plants (AIRPs)–PHED, Govt. of West Bengal
- School of Water Resources Engineering–Performance Evaluation of seven nos. Sewage Treatment Plant under the control of KMW & SA–KMW & SA, Govt. of West Bengal
- School of Water Resources Engineering–Appraisal of DPR for Renovation, Rehabilitation & Conservation and Lake Front Development of Motijheel in Motihari Nagar Parishad–NRCD, MoEFCC, Govt. of India
- School of Water Resources Engineering–Monitoring of Grossly Pollution Industries (GPIs) discharging into the River Ganga and its Tributaries for compliance verification–CPCB, Govt. of India
- School of Water Resources Engineering–Design Of Effluent Treatment Plant Of Capacity 0.1 MLD For Haringhata Dairy, Mohonpur, Nadia–Kolkata Metropolitan Development Authority
- School of Water Resources Engineering–Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) of KMC Project for utilizing KMC land on the eastern side of E.M. Bye-pass opposite Silver Spring Housing Complex–Kolkata Municipal Corporation
- School of Water Resources Engineering–Faecal Sludge Management: Optimization Of Pit Life Extender–Water For People
- School of Water Resources Engineering–ETP Adequacy Assessment Report–Krishna Tissues Pvt. Ltd.
- School of Water Resources Engineering–Appraisal of Sewerage Network of Zone-III of Gangtok town of Sikkim under National River Conservation Plan–NRCD, MoEFCC, Govt. of India
- School of Water Resources Engineering–Analysis of sediment transport mechanism in connection to reservoir life and dam safety under “Energy, Environment and Climate Change”–University with Potential for Excellence (UPE) – Phase II”, UGC

- School of Water Resources Engineering–Hydrological Study including Drilling of Boreholes, Pumping Test (Yield and Recuperation tests) for one cement grinding unit at Parbatpur and Digha villages under Nituria block in Purulia district, West Bengal for proposed Clinker Grinding Unit of 5 MTPA and CPP 20 MW–Shree Cement Limited

3. A. Invited Lecturers Delivered/Sessions Chaired:

(Name of the Teacher–Type of participation–Name of the Seminar Conference etc–Place–Duration)

- Prof. Pankaj Kumar Roy–Invited speaker–National Seminar And Workshop On ‘Artificial Intelligence And Machine Learning’–ICARE Complex, Haldia–One day2018
- Prof. Pankaj Kumar Roy–Chair person–Modern Trends in Civil Engineering–Calcutta Institute of Engineering and Management, Kolkata–One day23rd February, 2018
- Prof. Pankaj Kumar Roy–Invited speaker–Different Methods of Disinfection and Antibacterial Resistance–School of Water Resources Engineering, JU–One day20th April, 2018
- Prof. Pankaj Kumar Roy–Invited speaker–International 105th Indian Science Congress Engineering Science Section–Osmania University –2-8th January, 2018
- Prof. Pankaj Kumar Roy–Invited speaker–Design and Estimation of Check Dam Construction –Heritage Institute of Technology–One day25th October, 2017
- Prof. Pankaj Kumar Roy–Invited speaker–Water Pollution and its Remedy–Netaji Subhas Engineering College One day2nd –August ,2017
- Prof. Pankaj Kumar Roy–Invited speaker–Environment and Disaster- Protection & Practices –Narula Institute of Technology, Agarpara–One day30th, March, 2017
- Prof. Pankaj Kumar Roy–Invited speaker–Integrated Water Resources Management Strategies and Challenges in the North East India–D.M. College of Science, Manipur Imphal–29-30th June, 2017
- Prof. Pankaj Kumar Roy–Invited speaker–Training course for Indian Forest Service Officers on “Holistic Approach to Watershed Management through People’s Participation”–Regional Centre(MoEF & CC), Jadavpur University–6-10th November,2017
- Prof. Pankaj Kumar Roy–Invited speaker–“Water and Sanitation” organized by ‘Save the Children’ NGO–Gariahat, Kolkata–One day13th March, 2018
- Prof. Pankaj Kumar Roy–Invited speaker–“105th Indian Science Congress”–Manipur University, Imphal –16-20th March, 2018
- Prof. Pankaj Kumar Roy–Lecture delivered–Training of Nirman Shayak of Gram Panchyat–School of Water Resources Engineering, Jadavpur University–5 days long session from 16th August to 30th December, 2017(16 sessions)
- Dr. Subhasish Das–Delivered invited lectures–Course on “Rain Water Harvesting along with Water Recovery Process” organized by Ordinance Factories Institute of Learning, Ministry of Defence, Govt. of India–Ishapore–5-7June, 2017

3. B. Seminar/Workshop/Conference/Symposium Attended: (Name of the Teacher–Name of the paper presented (if any)–Name of the Seminar–Place–Duration)

- Prof. Pankaj Kumar Roy–Water Conservation Through Rain Water Harvesting: A Case Study –Training course for Indian Forest Service Officers on “Holistic Approach to Watershed Management through People’s Participation”–Regional Centre, Jadavpur University (MoEF & CC)–6-10th November,2017

- Dr. Subhasish Das and Dr. Rajib Das–Enhancement of Sediment Transportation by Increasing Scour around a Square Pier with Vane attached on One Side–37th IAHR World Congress – Kuala Lumpur, Malaysia–13-18 Aug., 2017
- Dr. Rajib Das and Dr. Subhasish Das–Calibration and Discharge Measurement Using 0.127 Metre (5") Parshall Flume–37th IAHR World Congress–Kuala Lumpur, Malaysia–13-18 Aug., 2017
- Dr. Subhasish Das and Prof. Dr. Asis Mazumdar–Comparison of Outcomes through EPANET and LOOP Softwares Using a Gravity Flow Water Supply Network at East Medinipur in West Bengal National Conference on Sustainable Advanced Technologies for Environmental Management (SATEM-2017)–IEST Shibpur–28-30 June, 2017
- Dr. Subhasish Das–A Geochemical Investigation and Control Management of Saline Water Intrusion in the Coastal Aquifer of Purba Midnapur District in West Bengal, India–National Conference on Sustainable Advanced Technologies for Environmental Management (SATEM-2017)–IEST Shibpur–28-30 June, 2017

3. C. Seminar/Workshop/Conference/Symposium Organized: (Name of the Teacher–Name of the Seminar–Place–Duration)

Prof. Pankaj Kumar Roy (Course Co-coordinator)–Institutional Strengthening of Gram Panchayats Program- II–School of Water Resources Engineering, Jadavpur University–5 days long session from 16th August to 30th December, 2017(16 sessions)

4. A. Books/Monographs etc. Published: (Name of the Teacher–Name of the Book–Name of the Publisher)

Prof. Pankaj Kumar RoyProf. Arunabha MajumderProf. Asis Mazumdar–Development Of An Environmentally Sustainable Approach For Safe Disposal Of Arsenic Rich Sludge, Handbook Of Environmental Material Management (Section III)–Springer International Publication

Prof. Pankaj Kumar RoyProf. Arunabha MajumderProf. Asis Mazumdar–A Decentralized Integrated Approach Of Water And Waste Water Management In Rural West Bengal, Handbook Of Environmental Material Management (Section I)–Springer International Publication

Prof. Pankaj Kumar RoyProf. Arunabha Majumder–Bottled and Packaged Water (Beverages) (Chapter 3)–Elsevier

Dr. Rajib Das, Dr. Subhasish Das, Dr. Anasua Sarkar–Watershed Image Analysis Using a PSO-CA Hybrid Approach. Hybrid Intelligent Techniques for Pattern Analysis and Understanding, Chap. 10, pp. 229-246.–CRC Press, Taylor & Francis Group: USA

Dr. Rajib Das, Dr. Subhasish Das, Dr. Anasua Sarkar–Landcover Change Detection Using PSO-Evaluated Quantum CA Approach on Multi-Temporal Remote-Sensing Watershed Images. Quantum-Inspired Intelligent Systems for Multimedia Data Analysis, Chap. 6, pp. 178-212.–IGI Global: USA

4. B. Articles Published in Journals: (Name of the Teacher–Co-authors–Name of the Article–Name of the Journal–Volume (no.) and Page no.–Date of publication)

International

Prof. Pankaj Kumar RoyProf. Arunabha MajumderProf. Asis Mazumdar–A. Majumdar, S. Pal, G. Banerjee, M.B. Roy, J. Debbarma–Development of an Environmentally Sustainable Approach for Safe Disposal of Arsenic-Rich Sludge–Handbook of Environmental material Management –Volume-3, Page no 1-4–2018

Prof. Pankaj Kumar Roy–M. Ghosh, and M.B. Roy–Selection of Multi Drug Resistant Bacteria from Water Treatment Plants–Desalination and Water Treatment–Volume- 107pg no- 279-284-2018

Annual Report 2018-19

- Dr. Subhasish Das, Dr. Rajib Das–Prabir Kumar Maity–Methodology for Groundwater Extraction in the Coastal Aquifers of Purba Midnapur District of West Bengal in India under the Constraint of Saline Water Intrusion–Asian Journal of Water, Environment and Pollution–Vol. 14, No. 2, pp. 1-12–April, 2017
- Dr. Subhasish Das, Prof. Dr. Asis Mazumdar–Hasanur Jaman, Asim Kuila–Hydrodynamic flow patterns around three inline eccentrically arranged circular piers–Arabian Journal for Science and Engineering, Springer–Vol. 42, Issue 9, pp. 3973-3990—Aug, 2017
- Dr. Rajib Das, Dr. Subhasish Das, Prof. Dr. Asis Mazumdar–Milan Nayek, Prasun Dutta–Design and Analysis of 0.127 m (5") Cutthroat Flume–Ain Shams Engineering Journal, Elsevier–Vol. 8, Issue. 3, pp. 295-303–Sept, 2017
- Dr. Subhasish Das, Dr. Rajib Das, Prof. Dr. Asis Mazumdar–Hasanur Jaman, Anik Chatterjee –Hydrodynamic behaviour of flow past three typically arranged circular piers on different horizontal planes–International Journal of Fluid Mechanics Research–Vol. 44, Issue 5, pp. 457-468 –Dec, 2017
- Dr. Subhasish Das, Prof. Dr. Asis Mazumdar–Biprodip Mukherjee–Complex Flow Phenomena of Horizontally Placed Underwater Cylinder above Water Bed–Water and Energy International –Vol. 60/RNI, No. 8, pp. 57-64–Nov, 2017
- Dr. Subhasish Das, Dr. Rajib Das–Prabir Kumar Maity–Remedial Measures for Saline Water Ingression in Coastal Aquifers of South West Bengal in India–MOJ Ecology & Environmental Science–Vol. 3, Issue 1, pp. 00061.–Jan, 2018
- Dr. Subhasish Das, Prof. Dr. Asis Mazumdar, Prof. Dr. Arunabha Majumder–Debasri Roy, Krishna Rit –A Preliminary Investigation on Water Quality of Jai Hind Jal Prakalpa in Kolkata–Indian Journal of Environmental Protection–Vol. 38, No. 2, pp. 148-153–Feb, 2018
- Dr. Subhasish Das, Dr. Rajib Das–Prabir Kumar Maity–A geochemical investigation and control management of saline water intrusion in the coastal aquifer of Purba Midnapur district in West Bengal, India –Journal of the Indian Chemical Society–Vol. 95, Issue 3, pp. 205-210–Mar, 2018
- Dr. Subhasish Das, Prof. Dr. Asis Mazumdar–Biprodip Mukherjee–Comparison of outcomes through EPANET and LOOP softwares using a gravity flow water supply network at East Medinipur in West Bengal–Journal of the Indian Chemical Society–Vol. 95, Issue 3, pp. 313-324–Mar, 2018
- Dr. Subhasish Das, Prof. Dr. Asis Mazumdar–Evaluation of Hydrodynamic Consequences for Horseshoe Vortex System developing around two eccentrically arranged Identical Piers of Diverse Shapes–KSCE Journal of Civil Engineering, Springer–Vol. 22, No. 7, pp. 2300-2314–Mar, 2018
- Prof. Pankaj Kumar Roy–T.K. Debnath, M. Pal, and J. Pal–Analysis of Physical Composition of Municipal Solid Waste of Agartala City–International Research Journal of Advanced Engineering and Science–Volume- 2, pg no- 87-89–2017
- Prof. Pankaj Kumar Roy–S. Chaudhuri, S. Halder, S. Hossain, G. Banerjee and J. Debbarma –Developing a Correlation for Estimation of Aquifer Layer using Resistivity Survey with Lithological Logs in Critical Terrain condition–Asian Journal of Water, Environment and Pollution–Volume-14, pg no- 9-17–2017
- Prof. Pankaj Kumar Roy–J. Debbarma, S. Das, C. Debbarma, and M.B.Roy–Critical Study of Sub Surface Aquifer Layer For Groundwater Availability Based on Electrical Resistivity

Annual Report 2018-19

Survey: A part of Dhalai Tripura, India–ARPN Journal of Engineering and Applied Sciences–Volume- 12, No- 21, pg no- 5851-5860–2017

Prof. Pankaj Kumar Roy–M. Pal. and M.B. Roy–Wind Induced Lake Circulation Model Application in the Lake Rudrasagar, Tripura (India)–European journal of Advances in Engineering and Technology–Volume- 4(5)pg no- 404-409–2017

Prof. Pankaj Kumar Roy–T.K. Debnath, Dr. M. Pal, and Dr. J. Pal–Analysis of Physical Composition of Municipal Solid Waste of Agartala City–International Research Journal of advanced Engineering and Science–Volume- 2(1)pg no- 87-89–2017

Prof. Pankaj Kumar Roy–A. Kumar, M.B. Roy, and K.N.P. Raju–Study of Extent and Magnitude of Arsenic in Groundwater in Uttar Pradesh, India–Environment Asia–Volume- 10(2)pg no- 9-14–2017

Prof. Pankaj Kumar Roy–M. Ghosh–Chlorine Resistant Bacteria Isolated from Drinking Water Treatment Plants in West Bengal –Desalination and Water Treatment–Volume- 79pg no- 103-107–2017

Prof. Pankaj Kumar Roy–S. Chaudhuri, S. Halder, S. Hossain, G. Banerjee and J. Debbarma –Developing a Correlation for Estimation of Aquifer Layer Using Resistivity Survey with Lithological Logs in Critical Terrain Condition–Asian Journal of Water, Environment and Pollution–Volume- 14(1)pg no- 9-17–2017

National

Prof. Pankaj Kumar Roy–M.B. Roy, A. Ghosh, and D. Chatterjee–An Overview of River Morphology Research: A Bibliometric Analysis–Journal for Advance Research in Applied Sciences–Volume-5, issue-2–2018

Prof. Pankaj Kumar Roy and Prof. Asis Mazumdar–S. Halder, S. Nag, M.B. Roy–Study of Ganga River Health Condition Based On Water Quality Indicators with Environmental Aspects and Adaptation Strategies Thereof –Indian Journal of Environmental Protection–Volume- 38, No- 8, Pg no- 659-670–2018

Prof. Pankaj Kumar Roy and Prof. Asis Mazumdar–Dr. M B. Roy, and N.R. Samal–A Comparative Study Of Labour Participation In Three Wetland Regions Of West Bengal, India–The Institution of Engineers–Series A, Volume- 97–2017

Prof. Pankaj Kumar Roy and Prof. Asis Mazumdar–S. Banerjee –Application of Computational Fluid Dynamics in the analysis of aquifer response during pumping–Indian Journal of Environmental Protection–Volume-37, Page no 93-192–2017

Dr. Subhasish Das, Prof. Dr. Asis Mazumdar–Biprodip Mukherjee–Simulation of Composite Pipedwater Supply by EPANET and LOOP Softwares: A Case Study–Journal of the Institution of Public Health Engineers, India –Vol. 45, No. 1, pp. 44-54 –April, 2017

Dr. Subhasish Das, Dr. Rajib Das, Prof. Dr. Asis Mazumdar–Hasanur Jaman–Hydrodynamics of flow obstructed by inline and eccentrically-arranged circular piers on a horizontal bed surface–Journal of The Institution of Engineers (India): Series A, Springer,–Vol. 98, No. 1-2, pp. 77-83–June, 2017

6. Major Achievements:

Prof. Asis Mazumdar

- i. External Member of the Ph.D. Committee of the Department of Civil Engineering, IEST, West Bengal.

Annual Report 2018-19

- ii. Member, Arsenic Task Force, Govt. of West Bengal.
- iii. Member of the Governing Body, Indian Plumbing Skill Council.
- iv. Chairman of State Expert Appraisal Committee (SEAC), Govt. of Mizoram, Aizawl selected by Ministry of Environment, Forests & Climate Change, Govt. of India through its notification in the Gazette of India, Extra ordinary dated April 30, 2015.
- v. Chairman, Indian Plumbing Association, Kolkata Chapter
- vi. Member of Corporation Level Authority on Groundwater Resources Development, Kolkata Municipal Corporation
- vii. Member of the National Expert Committee, Green Technology Watch Group (GTWG), Govt. of India, Department of Science & Technology
- viii. Peer Team Member of NAAC
- ix. Regular reviewer of many reputed international and national journals

Prof. Arunabha Majumder

- i. Member, Arsenic Task Force, Govt. of West Bengal
- ii. Member, Fluoride Task Force, Govt. of West Bengal
- iii. Member, State Level Committee on Solid and Liquid Waste Management in Rural West Areas, West Bengal
- iv. Member, Advisory Group, Water Technology Initiatives, Ministry of Science & Technology, Govt. of India.
- v. Member, National Advisory Committee on EU-India Research Project, DST
- vi. Governing Body Member, Institute of Environmental Studies & Wetland Management
- vii. Chairman, Environmental Committee Thakurpukur Cancer Hospital
- viii. Vice President, Institute of Public Health Engineers (India)
- ix. Member, Heritage Conservation Committee, KMC
- x. Member, State Level Clean Clearness Committee on Water & Sanitation, Tripura
- xi. Member, West Bengal State Level Ganga Monitoring Committee

Dr. Pankaj Kumar Roy

- i. Awarded “Nawab Zain Yar Jung Bahadur Memorial Prize” on 21st, December, 2017 in Institute of Engineers (India) on paper entitled “A Comparative Study of Labour Participation in Three Wetland Regions of West Bengal, India”.
- ii. Elected as a Recorder of section of “Engineering Sciences for 2018-2019 & 2019-2020 (106th & 107th Session) of the Indian Science Congress.
- iii. Regular reviewer of many reputed international and national journals.
- iv. Member of Individual Research Committee for Ph.D. in Civil Engineering Department, IEST, Shibpur.
- v. Member of Individual Research Committee for Ph.D. in Civil Engineering Department, Jadavpur University
- vi. Member of Individual Research Committee for Ph.D. in Architectural Department, Jadavpur University
- vii. Member of School Research Committee of School of Environmental Studies
- viii. Life Member- No. L28414, The Indian Science Congress Association
- ix. Member of Purchase Committee of ISLM, JU
- x. Member of Organizing Committee of TEQIP sponsored training program

WOMEN'S STUDIES

Phone	: + 91-33-2414-6531/6014
Telefax	: +91-33-2414-6531
Int.	: 2457-2445/2165/2872
Director.	: Prof. Samita Sen (Since Sept.2016-August 2017) Dr. Aishika Chakraborty(Since Sept.2017)
Jt.Director	: Dr. Nandita Dhawan
E-mail	: swsju@rediffmail.com/swsju@yahoo.com director.sws@jadavpuruniversity.in

A. Courses Offered: (Name of the Course, Duration of Courses, No. of Students Enrolled)

i) Name of the Course: PhD in Women's Studies

No. of Students: There were 2 students enrolled for PhD in 2006, the number has risen to 37 in 2016-17. In 2017-2018 the School has registered 5 PhD students. 1 student has been awarded his degree and 3 of them have submitted their thesis and will appear for their viva-voce in the coming months.

ii) Name of the Course: M. Phil in Women's Studies

Duration of the Course: 2 years

No. of Students: 18

iii)

a) Name of the Course: Extra Departmental Course (ED Course) in Women's Studies
(offered to BA students of Jadavpur University since July 2010)

Duration of the Course: 6 months (2nd year, 3rd semester/ ED 3.19) (Teaching period: July-Dec. 2017)

6 months (2nd year, 4th semester/ ED 4.32) (Teaching period: Jan-May 2018)

Number of Students: 50 (3rd semester) + 59 (4th semester)

b) Name of the Course: Extra Departmental Course (ED Course) titled 'A New Femininity: Rabindranath Then and Now' (ED 4.31) (designed by the School of Women's Studies, Jadavpur University and offered by the Rabindranath Studies Centre at the Faculty of Arts)

Duration of the Course: 6 months (ED 4.31) (Teaching period: Jan-May 2018)

Number of Students: 61 undergraduate students

B. Number of Faculty/Staff Members: 1 Professor in Women's Studies, 1 Associate Professor, 2 Assistant Professors [1 (Contractual)], 1 Coordinator, Teaching and Learning Materials (Contractual), 1 Senior Research Officer, 1 Publication Officer, 1 Assistant Librarian Gr. II (permanent since 31 August 2017), 1 Senior Assistant, 1 Peon to Senior Research Officer, SWS, JU.

Staff (Contractual) Employed for the Year 2017-2018: 1 Professional Assistant, 1 Library Assistant (till 31 August 2017), 1 Data Entry Operator, 2 Attendants (one of them resigned in October 2017).

Project Staff: 1 District Coordinator (CHILDLINE Project), 1 Project Coordinator (AJWS Project), 8 Research Assistants [AJWS Project— 2 Full-time+3 Part-time (March 2017-October 2017); 2 Full time+4 Part-time (November 2017-February 2018); 1 Full Time (March 2018)], 3 NET/SRF Fellows, 5 Rajiv Gandhi National Fellows (PhD), 1 NET/JRF Fellow.

Faculty/Staff Profiles (April 2017-March 2018)

1. **Name: Samita Sen**
2. **Designation: Professor (School of Women's Studies) and Dean (Faculty of Interdisciplinary Studies, Law and Management)**
3. **Years in School of Women's Studies: Since 2006**

From	To	Designation
2006	2013	Professor
2015	2018	Professor

4. Teaching (April 2017-March 2018):

4a. School of Women's Studies:

Name of Programme	Name of Course/s	No. of Classes or Lectures
E.D. (B.A.)	Women's Studies: Concepts and Contexts (Course II) (E.D. 4.32)	4(45 minutes class)
M. Phil	Research Methodologies	1 (2 hours class)
	Feminist Thoughts and Practices: An Introduction (CC 102) (Sem. 1)	3 (2 hours class)

5. Supervision:

Name of the Course	Completed	Ongoing
M. Phil	10	2
PhD (only registered students)	10	7

6. Workshops/Conferences/Lectures/Seminars: (Year-Name of Conference-Title of Paper-Organizer/ Place-Invited/ Selected/ Coordinated)

National:

- 10 March 2018-Consent and Agency: Sexual Harassment on Campus-Indian Institute of Science Education and Research, Mohali (India)-Lecture delivered
- 8 and 9 March 2018-Autonomy in Higher Education -Gender, Caste and Employment: Women in Higher Education-National University for Education Planning and Administration, New Delhi-Keynote lecture delivered at the national workshop
- 22-23 February 2018-Nineteenth-Century Synergies: Ventures at Home and (Ad)Ventures Abroad (Conference)-"Revolution in the Rearview Mirror: Irish Autobiographies of the Revolutionary Years" by Professor Karen Steele-Department of English, Presidency University-Discussant for keynote lecture
- 12 February 2018-Research Methods in International Relations and Related Social Sciences (5-16 Feb. 2018)-Gender and Social Science Research-School of Media Communication and Culture, JU-Lecture delivered
- 30 and 31 January 2018-Capital in the East (Conference)-The Problem of Reproduction: Waged and Unwaged Domestic Work-MCRG-RLS, Swabhumi, Kolkata-Paper presented
- 29 January 2018-Future of Work-Department of Sociology, Presidency University-Round table presentation

Annual Report 2018-19

31 December 2017–‘Remembering Sister Nivedita’ to commemorate the tercentenary birth anniversary of Sister Nivedita–RKSM Sister Nivedita School Alumnae Association, Kolkata

19 September 2017–Feminist Methodology–Workshop–Delhi University –Lecture delivered

7 April 2017–Women’s Journey towards Empowerment: A Myth or a Reality –
Ramakrishna Sarada Mission Vivekananda Vidya Bhavan –Inaugural speech at UGC two-day national seminar

7 April 2017–Conceptualising Women Empowerment–Ramakrishna Sarada Mission Vivekananda Vidya Bhavan –Chairing a session

International:

19-20 March 2018–Gender, Civil Society and the Role of the State Women, Identity and Politics –(ICAS: MP) held at CSDS, New Delhi–Presentation at the international workshop

18-19 December 2017–Time and Money: Themes in Labour Relations (Workshop)–Work and Beyond: Rewarding Work, Measuring Care –CeMIS,Goettingen University, (Germany) –Keynote address

30 November and 1 December 2017–Women and Peace (Workshop)–Prevent, Protect, Participate! Women’s Role in Peace and Security–Department of Political Science, University of Wurzburg (Germany)–Plenary speaker

28 November 2017–Post-colonial Mobility: Migration and Domestic Work –
Department of Indology, University of Wurzburg, (Germany) –Seminar presentation

14-16 November 2017–Workshop on Migration–Migration and Domestic Workers
Rosa Luxemburg Stiftung, Beirut–Paper presented

7-8 September 2017–Beyond the Home: New Histories of Domestic Servants (Conference) –Maids in Movement: Domestic Workers and Collective Action–Radcliffe Humanities Building, University of Oxford

7. Refresher Course/ Orientation Course: (Year–Institution–Title of Course–Coordinator/ Participant)

3 March 2018–WSRC, Calcutta University–Refresher Course in Women’s Studies –
‘Women and Law’, lecture delivered at the Refresher Course in Women’s Studies

23 February 2018–Department of Economics, Calcutta University–Short-term course on Gender Sensitizing ‘Gender and Violence: Domestic and Public’, lecture delivered

7 January 2018–Gauhati University–Short course on Gender Sensitization–‘Gender and Violence’, lecture delivered

6 January 2018–Department of Sociology, Jadavpur University–Refresher Course–‘Love, Law and Labour: Child Marriage in West Bengal’, lecture delivered for Refresher Course

6 December 2017–School of International Relations and Strategic Studies, Jadavpur University–Peace and Conflict Studies–‘Gender, Violence and Peace’, lecture delivered at Refresher Course

20 November 2017–Jadavpur University, HRDC–Qualitative Methods of Research–Lecture on Qualitative Methods of Research at the Orientation Programme

8. Awards/ Grants/ Prizes/ Research Projects:

Grants awarded for projects of research, advocacy, and institutional development:

Research project on ‘Women and Trafficking in South 24 Parganas’ (PI), funded by UNICEF, 2017-2018 (appx. Rs. 15,00,000), ongoing.

Annual Report 2018-19

Research project on 'Love, Law and Labour: Child Marriage in West Bengal' (PI) funded by American Jewish World Service, 2016-2018 (appx. Rs. 60,00,000) ongoing.

Research project on 'Women's Studies in West Bengal', UPE II (PI), 2016-2018, (appx. 10,00,000) ongoing.

9. Membership of Committees, Professional Associations, Journal Committees, Learned Societies, Academic Bodies:

JU:

Executive Council, Finance Committee, Tender Committee, Purchase Committee (University and School), Development Committee, UGC related committees, Faculty Council, Academic Committee, Admission Committee, PhD Committee (Faculty), SRC, Deans' Committees, Student Welfare Committee, TEQIP Committee, Fire Safety Committee etc.

External:

Member, Editorial Board, *Modern Asian Studies* (Cambridge); *Journal of Gender Studies* (CWDS, New Delhi); *Journal of History* (Jadavpur University); and Editorial Consultancy Board, *South Asian History and Culture* (Routledge).

M. Phil Committee, South and South-east Asia, University of Calcutta

Sub-Committee, Family Counselling Centre, Association for Social Health in India (W.B.)

Governing Body, Calcutta Mahanirvan Research Centre

Member, Advisory Committee of various Women's Studies Centres

General Body, Institute of Development Studies Kolkata

10. Publication:

a. Essays in Edited Volumes/ Chapters in Books

1. 'Slaves, Servants and Concubines: Domestic Workers in Nineteenth-Century Bengal' in Arun Bandopadhyay and Sanjukta Dasgupta (eds.) *In Quest of the Historian's Craft: Essays in Honour of Professor B.B. Chaudhuri*, Manohar Publications, New Delhi, 2018.
2. 'Dasi, Paricharika, Grihakarmi: Banglaly Grihasramer Bibartan' in Gautam Neogi, Nirban Basu and Soumitra Sreemani (eds) *Itihasher Baichitra: Essays in Honour of B.B. Chaudhuri*, Bangiya Itihas Samiti, Kolkata 2017. ISBN: 978-81-91293-862-2

11. Any Other Activities (Extension/Outreach):

Period–Organisation–Type of Activity–Role in Activity

13-19 January 2018–German Historical Institute London–Visiting fellowship–Visiting fellowship

Profile (April 2017-March 2018)

1. **Name:** Aishika Chakraborty

2. **Designation:** Associate Professor and Director, School of Women's Studies, Jadavpur University

3. **Years in School of Women's Studies:**

From	To	Designation
April 2013	Present	Associate Professor
December 2013	August 2014	Joint Director
September 2014	September 2016	Director
October 2016	September 2017	Associate Professor
September 2017	Till date	Director

4. Teaching: (April 2017-March 2018):

4 a. School of Women's Studies:

Name of Programme	Name of Course/s	No. of Classes or Lectures
E.D. (B.A.)	Women's Studies: Concepts and Contexts (Course II) (E.D. 4.32)	10 (45 minutes class)
M. Phil	Feminist Thoughts and Practices (CC1)	10 (2 hours class)
	Cultural Construction of Gender	15 (2 hours class)

4 b. Outside School (both JU and External):

(Department/Institution–Name of Programme–Name of Course/s–No. of Classes or Lectures)

Rabindranath Studies Centre, Faculty of Arts, Jadavpur University–**B.A. (including E.D.)**
–A New Femininity: Rabindranath Then and Now –7

School of Arts and Aesthetics, JNU–M.A. –1

School of Arts and Aesthetics, JNU–M. Phil–1

4 c. Course Coordination: (Period–Institution–Name of Programme–Name of Course/s)

April 2017–March 2018–School of Women's Studies, Jadavpur University–PhD course–PhD course

April 2017- March 2018–School of Women's Studies, Jadavpur University–M. Phil Course (jointly coordinated)–M. Phil Course

April 2017- March 2018–School of Women's Studies, Jadavpur University–M. Phil Course (jointly coordinated)–Cultural Construction of Gender

April 2017- March 2018–Rabindranath Studies Centre, Faculty of Arts, Jadavpur University –B.A. (including E.D.) –A New Femininity: Rabindranath Then and Now

5. Supervision: (Name of the Course–Department/Institution–Completed–Ongoing)

M. Phil–School of Women's Studies, Jadavpur University–8–0

PhD (only registered students)–School of Women's Studies, Jadavpur University–0–6

6. Workshops/Conferences/Lectures/Seminars: (Year–Name of Conference–Title of Paper–Organizer/ Place–Invited/ Selected/ Coordinated)

National:

12 April 2018–Dancing Offshore: Celebrating Long Distance Nationalism in America–Organized by US Consulate Historical Society, Calcutta at American Centre, Kolkata–Invited lecture

3-4 March 2018–Samabhabana, National Conference on Contemporary Dance–New Directions in Indian Dance–Sapphire Creations in association with the Ministry of Culture and ICCR, Kolkata–Invited lecture

25 January 2018–Annual Conference of *Paschimbanga Itihas Sansad–Nari, Dharma, Rastra* –*Paschimbanga Itihas Sansad* in collaboration with School of Women's Studies, Jadavpur University –Abdul Wahab Memorial Lecture; Chaired a panel

1 November 2017–Out-caste-ing the Nation: Dismantling Caste and Patriarchy in Chandalika –Centre for Women's Studies, JNU –Invited lecture

Annual Report 2018-19

31 October 2017 –Gender and Dance: Theory-Practice Interface–School of Arts and Aesthetics, JNU–Invited lecture

9 April 2017–Memories and Movements–Dancers’ Guild–Ranjabati Sircar Memorial Lecture

23 May 2017– Research Workshop on “Breaking the Borders of Conventional Research: An Interdisciplinary Approach”–Rabindra Bharati University, Kolkata–Resource Person

International:

12 September 2017–International Seminar on “The lived Realities of Women: Revisiting 19th Century Bengal”–From Khemta to Cabaret: The Journey of Women Dancers in Bengal–University of Burdwan–Invited speaker

10 May 2017–Tagore Festival in Egypt –Dance of Tagore: Memories, Movements and Ways Forward–Ministry of Culture, India and Maulana Abul Kalam Azad Centre, Embassy of India, Cairo, Egypt /Sayed Darwish Theatre, Cairo–Invited Lecture

8 May 2017 –Tagore Festival in Egypt–Chitragada: Trailing the Journey from Epic to Contemporary Present–Ministry of Culture, India and Embassy of India, Cairo at Royal Opera House, Alexandria, Egypt–Invited presentation

26 April 2017–Visiting Scholar Programme, RHLU, London–Nation Re-choreographed: Dancing against the Nation in the Age of Nationalism –Royal Holloway University of London –Invited Lecture

22 April 2017–From Jorasanko Private Theater to Contemporary Dance Theatre–Tagore Centre, London –Invited talk

14-17 April 2017 –Annual Conference of British Association of South Asian Studies–Nationalism Off-stage: Performing Resistance with Tagore–University of Nottingham

7. Refresher Course/Orientation Course: (Year–Institution–Title of Course–Coordinator/ Participant)

5 April 2018–Rabindra Bharati University supported by Indian Council of Social Science Research- Eastern Regional Unit–Feminist Research Methodology Workshop–Resource person. Delivered lecture on “Reading Autobiographies of Dancers”

6 March 2018–University of Burdwan–UGC-HRDC sponsored Orientation Course –Delivered lecture on “Steps of Transgressions: Women Dancers of Bengal”

27 February 2018 –Department of Economics, in association with the Academic Staff College, University of Calcutta –UGC sponsored short term course on Gender Sensitization–Delivered lecture on “From Pink to Padmavat: A Question of Agency”

7 February 2018–SWS and IR, Jadavpur University–UGC-HRDC short term course on Gender Sensitization–Chaired a lecture by Prof. Malini Bhattacharya at the Valedictory Session

1 February 2018–SWS and IR, Jadavpur University–UGC-HRDC short term course on Gender Sensitization–Resource Person; delivered lecture on “Tagore and Nationalism: Staging Resistance through Dance”

10 November 2017–Department of Comparative Literature, Jadavpur university,–UGC sponsored Winter Course–Resource person; delivered lecture on “Indian Modern Dance: An Unfinished Dialogue between Politics and Performance”

8. Awards/ Grants/ Prizes/ Research projects:

Grants Awarded for Projects of Research, Advocacy, and Institutional Development:
Research project on “Bengal Breaks Through: History, Legacy and the Politics of Gender in Indian Dance” under Arts Research Programme, funded by India foundation for Arts (IFA, Bangalore), November 2015-April 2017. Project completed.

9. Membership of Committees, Professional Associations, Journal Committees, Learned Societies, Academic Bodies:

JU:

1. Member of Editorial Board, *Newsletter* of School of Women’s Studies, Jadavpur University
2. Member of Editorial Board, *Silver Jubilee Volume*, School of Women’s Studies, Jadavpur University.
3. Member of Doctoral and Research Committee, School of Women’s Studies, Jadavpur University
4. Member of Publication Committee, School of Women’s Studies, Jadavpur University
5. Member of the Working Committee of *Tagore Cultural Centre*, Jadavpur University

External:

1. Member of Editorial Committee, *The Other Universe, Anthology on Women’s Studies*, Lady Brabourne College.
2. Member of the Syllabus Committee, Diamond Harbour Women’s University, Kolkata.
3. Member of the Syllabus Committee, Department of Performing Arts, Presidency University, Kolkata
4. Reviewer of JEDS, Journal of Emerging Dance Scholarship, online journal of World Dance Alliance
5. Reviewer of papers presented at International Conference of World Dance Alliance, 2015-2016
6. Reviewer of *Rivistadegli Studi Orientali*, published by the Dipartimento di Studi Orientali of Sapienza, University of Rome, Italy
7. Life Member of Indian Association of Women’s Studies
8. Executive Body Member of Indian Association of Women’s Studies (institutional)
9. Life Member of Indian History Congress
10. Member of *Paschimbanga Itihas Samsad*
11. Member of International Federation of Theatre Research
12. Member of Dance Studies Association, USA
13. Member of World Dance Alliance, Asia Pacific
14. Member of the Doctoral and Research Committee, Rabindra Bharati University
15. Examiner of MPhil and PhD dissertations of
 - a) Jawaharlal Nehru University, New Delhi
 - b) Rabindra Bharati University
 - c) Kalyani University

10. Publication:

a. Essays in Edited Volumes/ Chapters in Books

1. “Dancing against the Nation? Revisiting Tagore’s Politics of Performance”, in K.L. Tuteja and Kaustav Chakraborty ed., *Tagore and Nationalism*, Springer, New Delhi, 2017, ISBN 9788132236955.
2. “Dancers and Critics: Re-viewing Tagore”, Pallabi Chakravorty and Nilanjana Gupta ed., *Dance Matters Too: Markets, Memories, Identities*, Routledge, 2018, ISBN 9781136 106376.

Annual Report 2018-19

3. “Gender, Nation and Performance: Dancing Tagore in Contemporary Stage”, Parna Ghosh ed. *Women’s Voices: Visions & Perspectives*, Sampark, Calcutta, 2017, ISBN 9788177680058
4. “Writing Her Dance, Dancing Her Self: Auto-choreographs from Bengal”, in Urmimala Sarkar Munshi and Aishika Chakraborty ed., *The Moving Space: Women in Dance*, Primus Books, Delhi, 2017, ISBN 978-93-86552-50-1
5. “Moving with a Purpose: Women Dancers in Dialogue with Empowerment, Rehabilitation and Therapy”, in Urmimala Sarkar Munshi and Aishika Chakraborty ed., *The Moving Space: Women in Dance*, Primus Books, Delhi, 2017, ISBN 978-93-86552-50-1

Newspaper Article

1. “Kate Millet”, *Ananda Bazar Patrika*, with Rajlaxmi Ghosh, 17 September 2017.

b. Books and Monographs:

1. *The Moving Space: Women in Dance*, Urmimala Sarkar Munshi and Aishika Chakraborty eds. Primus Books, Delhi, 2017, ISBN 978-93-86552-50-1

11. Any other activities (Extension/Outreach): (Period–Organisation–Type of Activity–Role in Activity)

May 2017–Tagore Festival in Egypt, Cairo and Alexandria–A member of the Indian cultural delegation

Profile (April 2017-March 2018)

1. **Name:** Nandita Banerjee Dhawan
2. **Designation:** Assistant Professor
3. **Years in School of Women’s Studies:**

From	To	Designation
10/09/2012	Present	Assistant Professor

4. Teaching (April 2017-March 2018):

4 a. School of Women’s Studies:

Name of Programme	Name of Course/s	No. of Classes or Lectures
E.D. (B.A.)	ED 4.32 (Group B), Women’s Studies: Concepts and Contexts, Course II	9
M. Phil	Feminist Thoughts & Practices I	9
	Research Methodologies	2

4 c. Course Coordination:

Year	Institution	Name of Programme	Name of Course/s	Period
2017	JU	M. Phil in Women’s Studies	Feminist Thoughts & Practices I	2017(July-December)

5. Supervision:

Name of the Course	Department/Institution	Completed	Ongoing
M. Phil	School of Women’s Studies	3	7
PhD (only registered students)			2

6. Membership of Committees, Professional Associations, Journal Committees, Learned Societies, Academic Bodies:

JU: Member of anti-ragging committee

External: Member of Indian Association for Women's Studies

7. **Publication:**

a. Journal:

1. Dhawan, Nandita Banerjee (2017). From 'fire-brand' to 'water-brand': The caste politics of Uma Bharati, *Asian Journal of Women's Studies*, 23:4, 498-517.

Profile (April 2017-March 2018)

1. **Name:** Panchali Ray
2. **Designation:** Assistant Professor (contractual)
3. **Years in School of Women's Studies:**

From To Designation

2007 2012 JRF/SRF/NET fellow

2013 2018 Assistant Professor (contractual)

4. **Teaching (April 2017-March 2018):**

4 a. **School of Women's Studies:**

Name of Programme	Name of Course/s	No. of Classes or Lectures
E.D. (B.A.)	1. Concepts and Contexts I	15
	2. Concepts and Contexts II	
M. Phil	1. Core Course 102	18
	2. Core Course 201	
	3. Optional Course OP 201	

4 c. **Course Coordination:**

Period	Institution	Name of Programme	Name of Course/s
2017-2018	SWS	M. Phil	Core Course 102
2017-2018	SWS	E.D.	Concepts and Contexts I and II

5. **Supervision:**

Name of the Course	Department/Institution	Completed	Ongoing
M. Phil	SWS	3	3
PhD (only registered students)	SWS		1

6. **Workshops/Conferences/Lectures/Seminars:(Period-Name of Conference-Title of Paper-Organizer/ Place-Invited/ Selected/ Coordinated)**

National:

2018-Thinking through Gender: Short Term Course in Gender Sensitization –Queer Identities and the LGBT Movement, Contemporary India-UGC Human Resource Development Centre, Jointly organized by School of Women's Studies and Dept. of International Relations, Jadavpur University-Invited

Annual Report 2018-19

2018–Celebrating March 8: International Women’s Day –Women’s Movement in Contemporary India –Rotary Club-Gitanjali, Kolkata –Invited

7. **Membership of Committees, Professional Associations, Journal Committees, Learned Societies, Academic Bodies:**

External: Life member of Indian Association of Women’s Studies

8. **Publication:**

a. **Journal:**

National:

With ISSN:

1. Ray, Panchali. 2017. “Dhorshoner Raajnaitik Arthaniti: Somosamaik Chhattisgarher Adivasi Naari Ebong Santrash Bahini” (The Political Economy of Rape: Adivasi Women and Armed Forces, Contemporary Chhattisgarh). *Samaj Bigyan o Prakriti*. 4 (2). Pp. 23-26.

Profile (April 2017-March 2018)

1. **Name:** Hardik Brata Biswas
2. **Designation:** Coordinator, Teaching and Learning Materials
3. **Years in School of Women’s Studies:** 12

From	To	Designation
2005	2007	M. Phil candidate (M. Phil awarded in 2007)
2008	2011	Sir Ratan Tata Trust PhD Fellow/ SEPHIS-FORD Fellow
2011	2013 March	M. Phil Programme coordinator (Part-time)
2013	March 2018	Coordinator, Teaching and Learning Materials (UGC Teaching)

4. **Teaching (April 2017-March 2018):**

4. a. **School of Women’s Studies:**

Name of Programme	Name of Course/s	No. of Classes or Lectures
E.D. (B.A.)	Women’s Studies: Concepts and Contexts 1	5 (45 minutes class)
M. Phil	Core Course 1	5 (2 hours class)
	Cultural Construction of Gender (OP 201)	3 (2 hours class)
	Research Methodologies (Sem.1)	7 (2 hours class)
	Feminist Thoughts and Practices: An Introduction (CC 201)	6 (2 hours class)

4. b. **Outside School (both JU and External): (Department/Institution–Name of Programme–Name of Course/s–No. of Classes or Lectures)**

- Rabindranath Studies Centre, Faculty of Arts, Jadavpur University–B.A. (including E.D.) –A New Femininity: Rabindranath Then and Now–15 (45 minutes class)
- Diamond Harbour Women’s University, West Bengal–M.A. in Women’s Studies–Feminisms: Theories and Issues–8 (1 hour class)
- Diamond Harbour Women’s University, West Bengal–M.A. in Women’s Studies–Literature, Text, Representation 10 (1 hour class)

- Diamond Harbour Women's University, West Bengal–M.A. in Women's Studies–Women, Science, Gender5(1 hour class)
 - School of Cultural Texts and Records, Jadavpur University–Post Graduate Certificate Course–Digital Humanities–8 (1 hour class)
 - Department of Sociology, Rabindra Bharati University–M.A. in Sociology–Special lecture on Caste and Gender–1 (1 hour class)
4. c. **Course Coordination:** (*Period–Institution–Name of Programme–Name of Course/s*)
February 1-7,2018–Jadavpur University–UGC-HRDC short term course on gender sensitization–Thinking through Gender.Joint coordination with Dr Kakoli Sengupta, Department of International Relations, JU.
5. **Supervision:**(*Name of the Course–Department/Institution–Completed–Ongoing*)
M. Phil–School of Women's Studies, Jadavpur University–From *Tawaif* to the Neo Liberal Sex Model: Inscribing Cinesexuality on the Figures of Performing Women (Sonia Bhattacharya 2014)
M. Phil (joint supervision) –School of Women's Studies, Jadavpur University – *B a n g l a Shahitye Prantik Jounotar Uposthapon* (Anwasha Biswas)
M. Phil (joint supervision) –School of Women's Studies, Jadavpur University–Women Write Madness: Madness and Femininity in English Literature (Anandi Mukherjee)
M. Phil (joint supervision) –School of Women's Studies, Jadavpur University – *W o m e n , Partition and Nation in Popular Hindi Films, 1990s-2010s* (Supriyo Pramanik)
M. Phil (joint supervision) –School of Women's Studies, Jadavpur University – *J i b a n Charjay Baul Samaj o Sadhan Sangini: Ekti Parjalocna o Mulyayon.* (Abhimanyu Mal)
M. Phil (joint supervision) –School of Women's Studies, Jadavpur University Representation of Women in the Adventures of Tintin and Asterix (Satyarupa Halder)
M. Phil (joint supervision) –School of Women's Studies, Jadavpur University –Gorkhaland Movement: Exploring the issue of Gender and Class (Gunjan Rana)
M. Phil (joint supervision) –School of Women's Studies, Jadavpur University –Feminism(s) in India: Challenges and Threats (Gaurav Singh)
M. Phil (joint supervision) –School of Women's Studies, Jadavpur University –*Deshvag o Deshtyager Fole Rochito Golpe Naribadi Drishtikon* (Sajidul Mondal)
PhD (only registered students)–NA–NA–NA
6. **Workshops/ Conferences/ Lectures/ Seminars:**(*Period–Name of Conference–Title of Paper–Organizer/ Place–Invited/ Selected/–Coordinated*)
6. a. **National:**
- 29th March-1st April, 2017–RETHINKING MARGINALITY: Conjunctions & Contradictions –Image, sexuality and thinking the body of the marginal woman in times of development–Rabindra Bharati University.Centre for Women's Studies,Department of Human Rights and Human Development, Dr B R Ambedkar Studies Centre –Invited
 - 16 March 2018–International conference on Empowerment of Women in India.–Work of writing as empowerment–Sabang Sajanikanta Mahabidyalaya, Sabang, Medinipur.–Invite

8. Membership of Committees, Professional Associations, Journal Committees, Learned Societies, Academic Bodies:

JU:

- Academic Committee (School of Women's Studies)
- Publication Subcommittee, Convener (School of Women's Studies)
- Silver Jubilee Celebrations Committee, Joint-Convener (School of Women's Studies)
- Moderation Committee (School of Women's Studies)
- Member, Editorial Board, Newsletter, School of Women's Studies (ISSN: 2394-2142)
- Coordinator, M. Phil programme in Women's Studies

External:

- Moderation Committee, Diamond Harbour Women's University
- Bangiya Sahitya Parishat
- Little Magazine Libaray O Gabeshana Kendra

9. Publication

- a. Journal: Hardik Brata Biswas ed., Alochonachakra, Vol. 41, Special supplement on Women's Issues, April 2017, Kolkata

National:

With ISSN: RN 69543/87 — ISSN: 2231-3990

- b. **Essays in edited volumes/chapters in books:** Four [forthcoming 2017/18]

2. **A. Area of Research Activities: (Broad Areas):** See 2B

2. **B. Major Research Project: (*Departmental/Individual, Name of the Project/Funding Agency*)**

The School of Women's Studies, Jadavpur University has taken up research through various action-oriented projects. It has also taken up a project on reprinting Bengali Women Writers as extended research. The research projects undertaken by the School in the academic period April 2017-March 2018 are listed below.

Research Projects:

1. **Love, Law and Labour: Child Marriage in West Bengal**

Principal Investigator: Professor Samita Sen

Project Coordinator: Dr. Anindita Ghosh

Project Staff:

Ishita Savina Chowdhury, Research Assistant (Qualitative) [March 2017-October 2017]

Utsarjana Mutsuddi, Research Assistant (Qualitative) [March 2017-October 2017]

Kaushik Mukherjee, Research Assistant (Part-time) [March 2017–May 2017]

Avirup Jana, Research Assistant (Qualitative)

Rubina Khatun, Research Assistant (Quantitative)

Biswajit Prasad Hazam, Research Assistant (Part-time)

Introduction

The School of Women's Studies, Jadavpur University is currently undertaking a project on Child Marriage in West Bengal. This project is funded by the American Jewish World Service, an organization which is involved with projects related to Early and Child Marriage across the globe, among various other socially relevant issues. Child Marriage has been a dominant trend that has ruled the patriarchal economy of India for the longest time. In recent years, due to growing awareness and government schemes such as Kanyashree Prakalpa, this practice has

dwindled in numbers. However, we are yet to eradicate this practice completely as the number of early marriages remains quite high in various rural and poverty stricken areas of India. In this project we have focused on child or underage brides as well as grooms in the last 5 years, in 7 districts in West Bengal. Another part of this project deals with Bangladeshi women, usually in their teens who get married to Indian men after illegally crossing the national borders. This part of the project focuses on how these young women negotiate, subvert and resist various norms of law and family and state that are imposed upon them. We started this project on March 2016 and finished one term of the project in February 2017. We started a second term for this project in April 2017 and the work continues.

Purpose of the Project

The purpose of this project is to map out the emerging trends related to this practice in West Bengal. We also intend to analyze the reasons that cause this practice to continue. One very important purpose of the project is to figure out whether the schemes that the government has implemented have actually created any impact. Other purposes of this project include gaining a comprehensive picture regarding the reality behind the continuation of this practice. We also intend to bring to light the ways in which love, longing and desire of various sorts are caught in the web of securitization of borders and criminalization of border crossings.

Activities

- The basic criteria behind choosing the selected blocks for our fieldwork were the high rate of child marriage. Then a comparative study of literacy rates, employment opportunities and socio-economic status of various blocks under various districts was done to give us a clearer picture. We adhered to 12 important indicators of under-age marriages of girls in the first phase and both girls and boys in the second phase in West Bengal. In the dissemination meeting held in the first phase of the project a recurring point that was brought forward by the attendees of the meeting was that; child marriage cannot be looked at without taking into account the responses of the underage grooms. We took this suggestion into account and have brought few changes into our questionnaire accordingly. The final selection of blocks was done keeping in mind that we could interview respondents from varying backgrounds. Pre-surveys were conducted in the districts to determine the households in which under-age marriages of both boys and girls have taken place in last five years. The final districts chosen were South 24 Parganas, Birbhum, Jalpaiguri, Purba Medinipur, Kolkata, Purulia and Murshidabad.
- Each field visit included 3-4 days of personal interviews. We have interviewed 373 households in three separate villages where underage marriages have taken place in these 7 districts. At the end of each fieldwork a focus group discussion was planned where we invited child brides and grooms, their families, Panchayat members, important social agents in the locality to discuss the evils of continuing this practice or the benefits that families reaped from continuing this practice and measures that could be taken up by the local community to counter this social practice.
- As far as the part related to the Bangladeshi women is concerned the research draws on 14 in-depth interviews of women from Bangladesh and some informal conversations, observations made in 5 different villages in North 24 Parganas near the Indo-Bangladesh border.
- Over the last one year there have been various team meetings where our researchers have been engaging in dialogue with senior consultants. Other than the regular focus group discussions, on 23 February 2017 a dissemination meeting was held, where dignitaries and organizations working on this issue across West Bengal came together to discuss their findings. Initiatives

like *Swayamsiddha* were discussed at the meeting. Jeevika Development Society presented their continuing work in this field. Professor Biswajit Ghosh discussed his experience of working for decades in this field. The meeting was well-attended and we hope to follow this up with other meetings in the second phase of the project.

- The research is currently underway so it is too early to talk about the impact it may have created. However we have worked on seven academic papers so far. This experience has been hugely rewarding for us. Since, this project is a part of a larger nationwide project; we hope that the work we have done will feed into a larger picture and eventually be powerful enough to create national impact.

2. **Jadavpur University Women's Studies UNICEF Programme: (Swayamsiddha) against Women Trafficking**

Funded by: UNICEF

Time Period: June 2017—December 2017

Principle Investigator: Professor Samita Sen

Co Investigator: Dr. Iman kalian Lahiri

Research Fellows: Pritika Datta, Kaushik Mukherjee, Kathakali Biswas

Field Workers: Arunima Sarkar, Utkalika Saha, Debsmita Chowdhury, Rituraj Banerjee, Roumya Chandra, Rubina Khatun, Amrita Mukherjee. Madhuria Guha

Incidents of human trafficking are in the news almost every day. These stories typically focus on the horrors endured by the victim and the drama of their rescue. South Asia has emerged as a major source and transit for trafficking of women and children. Within India, West Bengal has a very high rate of trafficking. School of Women's Studies at Jadavpur University has started an anti-trafficking project along with UNICEF and police in South 24-Parganas, West Bengal. This project began in June 2017.

The project focuses on South 24-Parganas, which has a high incidence of human trafficking, especially of women. The district has numerous pockets, where communities are facing acute poverty; young women from these areas are lured to metropolitan cities with the promise of jobs or a better lifestyle and then sold into sex work or labouring arrangement resembling bondage. It has been seen that most of the traffickers are people known to the victim. There are heartbreaking stories of women being sexually assaulted and having to go through the ordeal for years in an alien environment after falling prey to traffickers.

There have been several initiatives from government to combat the problem of trafficking in the past ten years. The international community and a slew of non-governmental organizations have also intervened substantively in these efforts. The problem remains acute, nevertheless, and there are many differences in perspectives. The link between trafficking and sex work, the question of trafficking of minors, increasing importance of forced labour as cause of trafficking are issues under debate and discussion.

This anti-trafficking project will support 'Swayamsiddha', an initiative taken by South 24-Parganas police last year after the police rescued a teenage girl reported missing with help from their counterparts in Delhi and an NGO based in the NCR. At the time of the rescue, the girl was found to be extremely ill— 25 litres of puss had to be extracted from her body and she was found to be HIV positive. The incident prompted the South 24-Parganas police to form a team to combat the menace of trafficking. 'Swayamsiddha' is meant to build capacity

within communities to combat trafficking, to create rings of protection around young girls through awareness, information and access to services.

This project by the School of Women's Studies, Jadavpur University, proposes to strengthen the police's initiative in the district. It is headed by Professor Samita Sen and Dr. Iman kalyanLahiri. They started working with three research fellows; Pritika Datta, Kaushik Mukerjee and Kathakali Biswas. Pritika Datta left in November 2017 and Sulagna Purakayastha is now working with the team. The University team has already met with CHILDLINE and NGOs such as SPAN and Action Aid and discussed with them the area of work.

The research team has already visited three blocks of South 24 parganas, West Bengal. The three blocks are: Magrahat II, Budge Budge I and Gosaba. The team visited two villages and one census town in each block. In Magrahat II, the areas of field survey were Uttar Radhanagar, Sarbanandapur-Bilandapur and Magrahat census town. In Budge Budge II, the areas visited were Betuabati-Rajarampur, Kishorepur and Budge Budge census town. In Gosaba block, the team visited Pakhiralay, Rangabelia and Gosaba. The total number of respondents covered by the team in all the three blocks is 1029 (592 in Magrahat II, 120 in Budge Budge I and 307 in Gosaba). The core concept of this initiative is to create a strong fence of knowledge and awareness around possible victims— a wall too strong for traffickers to invade.

3. CHILDLINE

Coordinator: Indrani Banerjee

The CHILDLINE is a project of the Ministry of Women and Child Development, GOI. A phone number that is 1098 spells hope for millions of children across India, CHILDLINE is India's first 24-hour, free, emergency phone service for children in need of aid and assistance. CHILDLINE turned twenty two on June 2018. The School of Women's Studies, Jadavpur University has been acting as the nodal organization for CHILDLINE 24 Parganas (South) unit, which successfully completed 15 years in June 2018.

On the eve of completing fourteen years, CHILDLINE South 24 Parganas has been able to increase the number of partners in the year 2016. The Ministry of Women and Child Development, Government of India sanctioned grants for appointing two more sub-centres for the District CHILDLINE. Since November 2016, Digambarpur Angikar and Sundarban Social Development Centre joined as the partners of CHILDLINE South 24 Parganas. Till now CHILDLINE South 24 Parganas could not provide direct services at Kakdweep sub division in West Bengal. Now these two partners are catering CHILDLINE services at Kakdweep and Canning sub divisions.

Purpose of the Project:

- To respond to children in emergency situations and refer them to relevant Governmental and Non-Governmental Organizations.
- To create a structure that ensures the protection of the rights of the child as ratified in the UN Convention on the Rights of the Child and The Juvenile Justice (Care and Protection of Children) Act, 2000.
- To provide a platform for networking amongst organizations and to strengthen the support systems which facilitate the rehabilitation for children in especially difficult circumstances.
- To sensitize agencies such as the public, hospitals, municipal corporations and the railways towards the problems faced by these children.
- To provide an opportunity to the public to respond to the needs of children in difficult circumstances.

Target Groups Covered:

The children 0-18 years of age and who are in need of care and protection is the target group of the CHILDLINE project.

Time frame:

This is an ongoing project of the Ministry of Women and Child Development Govt. of India since 1995.

Methodology:

The operational procedures of CHILDLINE start with dialing 1-0-9-8 (Ten- Nine-Eight). Either a child herself/himself or any concerned adult can call at CHILDLINE. The person then gets connected to the Childline Contact Centre (CCC) and a team responds to the calls.

Activities Involved in Dealing with CHILDLINE Cases:

Crisis Management

- *Direct assistance:* CHILDLINE Rushes to Aid the Child- Medical, Shelter, protection from abuse, repatriation, death, missing children, intensive counseling.
- *On phone:* Emotional support and guidance, information and referral to services for the caller, information about CHILDLINE, silent calls.

Long-term Rehabilitation

After the emergency needs of the child have been addressed, the child is provided Rehabilitation and Constant followup.

Advocacy and Prevention

- In the year 2017-18 the school takes several initiatives for protecting the child rights in the district.
- School awareness programme at different subdivisions like Canning Diamond Harbour, Baruipur and Kakdwip have helped in preventing child marriage and child trafficking .
- The Police Department, which is also responsible to protect the rights of the children, supports the CHILDLINE. To acknowledge the service of CHILDLINE the Superintendent of police of South 24 Parganas District organized several meetings with the CHILDLINE and promised to help CHILDLINE to expedite their services.
- The Police Department has taken an initiative to prevent child trafficking by conducting several school awareness programmes where CHILDLINE South 24 parganas has taken active role. The name of the project is *Swayangsiddha*.
- The regular meeting with District Level Child Protection Unit has helped the school to intervene several critical cases.
- The Department of Social Welfare, South 24 Parganas district printed posters for sensitizing the children on right to education, child marriage and child trafficking as CHILDLINE advocates these issues and brought the real scenario of the vulnerability of the children in front of the district authority.
- The CHILDLINE organized several workshops for the stakeholders of the Child protection system.

Impact-success, Obstacles, Challenges:

The CHILDLINE team faces several challenges including insufficient shelter homes, lack of awareness among community members, staffs strength etc. In spite of that, the CHILDLINE team hopes to see a child friendly society where every child will execute his/her rights without hesitation and the society will also come forward to ensure the protection of the children who are the future of the nation.

Meetings and Workshops:

1. The CHILDLINE team has participated and organized different sensitization workshops on child protection mechanisms to sensitize the secondary schools of different blocks of South 24 Parganas.
2. As a result of organizing several outreach and awareness programmes, the CHILDLINE team has received a number of phone calls regarding child marriage, missing children (specially girl children) etc. CHILDLINE team has stopped more than 120 child marriages with the help of local administration, police and Government officials.
3. The School of Women's Studies organized two in house training programmes for the CHILDLINE team. The first one was meant for the new CHILDLINE partners and was organized in March 2017. The second programme was on *Mode of Communication: Behaviours towards Children* and was organized in November 2017.
4. The School of Women's Studies, Jadavpur University also organized two workshops for the secondary school teachers from the District of South 24 Parganas in February 2017 in Alipore, Kolkata. Teachers from all five sub divisions participated in the programme.
5. The celebration of *CHILDLINE Se Dosti* week was observed in the month of November (14th-21st) 2017. The programmes were vibrant and the participants were excited to be the part of the programmes. This week long programme was comprised of different events such as *Surakhsha Bandhan* (tying of ribbon on the wrist of a person), rally, sit and draw competition, signature campaign etc.
6. The School of Women's Studies, Jadavpur University organized two police training programmes for the police personnel of Diamond Harbour and Baruipur sub division on Child Protection Mechanism and Child Related Laws. The first one was held on 16 December 2017 at Diamond Harbour Police Station and Advocate Neel Rohit Mondal conducted the programme. The second programme was held on 16 March 2018 at Smriti Mahal Restaurant, Baruipur. The speaker was Professor Sarfaraz Ahmed Khan, Registrar, West Bengal National University of Juridical Sciences, Kolkata.
7. The CHILDLINE Advisory Board (CAB) Meeting was held on 13 February 2018. Resolutions were taken by the Chairperson to expedite the CHILDLINE service in the district. The CHILDLINE South 24 Parganas has an endeavour to reach out to every children who are in distress and will provide them a child friendly environment.

3. A. Invited Lectures Delivered/Session Chaired: (*Name of the Teacher, Type of Participation, Name of the Seminar/Conference etc., Place, Duration*): See 1B (Staff Profile)

3. B. Seminar/Workshop/Conference/Symposium Attended: (*Name of the Teacher, Name of the Paper Presented (if any), Name of the Seminar, Place, Duration*): See 1B (Staff Profile)

3. C. Seminar/Workshop/Conference/Symposium Organized: (*Name of the Teacher, Name of the Paper Presented (if any), Name of the Seminar, Place, Duration*)

Seminars/Workshops/Conferences

The events in the form of seminars/workshops/conferences have helped in networking at different levels for a range of purposes. This includes twinning between women's studies centres to provide support to the new centres; conducting joint programmes to utilise the strength from various centres; initiate dialogues between areas of research of different centres to build newer perspectives of research and documentation; and also to expose the students to local, national and international levels of research in women's studies.

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- The School of Women's Studies organized a special lecture by Dr Prarthana Purkayastha, Royal Holloway University of London on 'Choreographing Protest: Dance in the IPTA Movement' on 9 August 2017 at 1.00 pm at Vivekananda Hall, JU. The session was chaired by Dr Aishika Chakraborty and the discussant was Professor Anuradha Roy, Department of History, JU.
- The School of Women's Studies, JU organized Eastern Region Convention on 'Women's Studies Now: Crisis and Solidarity' on 18 August 2017 at H.L. Roy Auditorium, Jadavpur University from 2.00 pm - 5.30 pm.
- The School of Women's Studies, Jadavpur University, organized a special lecture by Professor Mary E. John on 'Insight and Blindness: Sexual Violence and Contemporary Feminism in India' on 31 August 2017 at the Seminar Room of the Department of International Relations, JU at 12 pm. The welcome address was given by Professor Samita Sen.
- The School of Women's Studies, JU organized a Research Seminar on 31 August 2017 from 2.30 pm onward at the Seminar Room of the Department of International Relations, JU. The speakers were Kathakali Biswas and Sohini Biswas. The title of their papers were 'When the Personal Becomes Political' and 'The Forests Are Alive: Life and Livelihood among Tribal Women in Jhalda Division of Purulia District, West Bengal' respectively.
- The School of Women's Studies in collaboration with Paschimbanga Itihas Samsad organized a three day conference on 24-26 January 2018 at Jadavpur University.
- UGC-HRDC Short Term Course on Gender Sensitization titled 'Thinking through Gender' was jointly organized by the School of Women's Studies and the Department of International Relations, JU from 1-7 February 2018.
- The School of Women's Studies and the Department of English jointly organized a talk by Dr Aparajita Sengupta on 'Decolonising Domesticity: Feminism & Environmental Mindfulness in the Context of Growing Food' on 19 February 2018 at A-V Room, Department of English, JU.

Seminars/Workshops/Events/Outreach Activities Related to Specific Projects Conducted by the School

Project: *Love, Law and Labour: Child Marriage in West Bengal*

- The School of Women's Studies, Jadavpur University organized a Disseminating Meeting of the Project "Love, Law and Labour: Child Marriage in West Bengal" on **23 February 2017** at Vivekananda Hall, Jadavpur University. The dignitaries and organizations working on this issue across West Bengal came together to discuss their findings. Initiatives like *Swayamsiddha* were discussed at the meeting. Jeevika Development Society presented their continuing work in this field. Professor Biswajit Ghosh, Department of Sociology, University of Burdwan presented a paper on 'Understanding Child Marriage: A Sociological Perspective' and discussed his experience of working for decades in this field.

Project: CHILDLINE supported by the Ministry of Women and Child Development, Government of India

The School is the nodal organization for the CHILDLINE South 24 Parganas unit. The CHILDLINE organized the following workshops in the period of the report:

- The School of Women's Studies organized an in house training programme for the CHILDLINE team on *Mode of Communication: Behaviours towards Children* in November 2017.
- The celebration of *CHILDLINE Se Dosti* week was observed in the month of November (14th-21st) 2017. This week long programme was comprised of different events such as *Surakhsha Bandhan* (tying of ribbon on the wrist of a person), rally, sit and draw competition, signature campaign etc.
- The School of Women's Studies, Jadavpur University organized two police training programmes for the police personnel of Diamond Harbour and Baruipur sub division on Child Protection Mechanism and Child Related Laws. The first one was held on 16 December 2017 at Diamond Harbour Police Station and Advocate Neel Rohit Mondal conducted the programme. The second programme was held on 16 March 2018 at Smriti Mahal Restaurant, Baruipur. The speaker was Professor Sarfaraz Ahmed Khan, Registrar, West Bengal National University of Juridical Sciences, Kolkata.

Memorial Lectures

- The School of Women's Studies organized the XVIII Sukhalata Rao Memorial Lecture on 'Draupadi's Travels' by Dr Urmimala Sarkar Munsri, School of Arts and Aesthetics, Jawaharlal Nehru University, New Delhi on 23 October 2017 at Vivekananda Hall, JU. The lecture was chaired by Professor Nilanjana Gupta, Department of English, JU.
- The School of Women's Studies in collaboration with Biplabtirtha Chattagram Smriti Sanstha organized XX Pritilata Waddedar Memorial Lecture on 'Tebhaga o Nari Andolon' (in Bengali) by Professor Kavita Panjabi, Department of Comparative Literature, JU on 16 January 2018 at Vivekananda Hall, JU. The lecture was chaired by Professor Paula Banerjee, Vice Chancellor, The Sanskrit College and University.
- The School of Women's Studies organized VIII Sulekha Dasgupta Memorial Lecture on 'Pathhaer Dharan o Malik Muhammad Jayasi-r Padumavat' (in Bengali) by Professor Gautam Bhadra, Eminent Historian on 5 March 2018 at Vivekananda Hall, JU.
- The School of Women's Studies organized III Ranjabati Sircar Memorial Lecture on 'Rethinking the Politics of Interculturalism in Dance: Possibilities, Traps and a Search for Alternatives?' by Professor Rustom Bharucha, School of Arts and Aesthetics, Jawaharlal Nehru University, New Delhi on 29 March 2018 at Vivekananda Hall, JU. The lecture was chaired by Professor Tapati GuhaThakurta, Eminent Art Historian and Professor in History, Centre for Studies in Social Sciences, Calcutta. Prior to the lecture an exhibition and performance was organized in collaboration with Dancers' Guild Kolkata to commemorate the 55th birth anniversary of Ranjabati Sircar. This programme was inaugurated by Gautam De, Regional Director, Indian Council of Cultural Relations, Kolkata.

Exchange with Other Universities

- Faculty members of the School have been invited to participate in conferences and seminars of international universities. Professor Samita Sen presented an academic paper on "Post-colonial Mobility: Migration and Domestic Work" at the Department of Indology, University of Wurzburg, Germany. She has delivered a lecture on "Maids in Movement: Domestic Workers and Collective Action" in a conference on 'Beyond the Home: New Histories of Domestic Servants' at Radcliffe Humanities Building, University of Oxford. She was a plenary speaker

on “Prevent, Protect, Participate! Women’s Role in Peace and Security” at a workshop on ‘Women and Peace’ at the Department of Political Science, University of Wurzburg, Germany. Dr Aishika Chakraborty was invited as a visiting scholar and delivered a lecture on “Nation Re-choreographed: Dancing against the Nation in the Age of Nationalism” at the Royal Holloway University of London. She presented a paper in the Annual Conference of British Association of South Asian Studies at the University of Nottingham on “Nationalism Off-stage: Performing Resistance with Tagore”.

- The School has build up strong networks with universities of regional and national importance. We invite scholars of repute from these institutions and our faculty members have also actively participated in events of these organisations.
- The teachers have acted as resource persons in Refresher Course organized by different universities. Professor Samita Sen was invited as a resource person in the Refresher Course in Women’s Studies organized by WSRC, Calcutta University to deliver a lecture on “Women and Law”. She also delivered a lecture on “Love, Law and Labour: Child Marriage in West Bengal” in the refresher course organized by the Department of Sociology, Jadavpur University. Dr Aishika Chakraborty delivered lecture on “Steps of Transgressions: Women Dancers of Bengal” in UGC-HRDC sponsored Orientation Course at University of Burdwan.
- Professor Samita Sen has delivered keynote addresses in national and international conferences. Her keynote address on “Work and Beyond: Rewarding Work, Measuring Care” was presented in an International Workshop ‘Time and Money: Themes in Labour Relations’, organized by CeMIS, Goettingen University (Germany). She also delivered a keynote lecture on “Gender, Caste and Employment: Women in Higher Education” in a National Workshop on ‘Autonomy in Higher Education’, organized by National University for Education Planning and Administration, New Delhi. Dr Aishika Chakraborty chaired a panel at Abdul Wahab Memorial Lecture at the Annual Conference of *Paschimbanga Itihas Sansad on Nari, Dharma, Rastra* organized by *Paschimbanga Itihas Sansad* in collaboration with School of Women’s Studies, Jadavpur University.

Event: Commemorating International Women’s Day

- The School of Women’s Studies celebrated the International Women’s Day on 8 March 2018 at Vivekananda Hall, JU. The welcome address by Dr Aishika Chakraborty, Director and Associate Professor, SWS, JU was followed by Student Panels on ‘Queer Rights in India’ and ‘ME_TOO to List: Locating Narratives in Cyber Space’. At the post lunch session there was a panel discussion on ‘Child Rights in Light of Women’s Rights’. The speakers were Ananya Chakraborty, Chairperson, WBSCPCR and Ruchira Gupta, Founder and Director, APNE AAP WORLDWIDE. At the last session the M. Phil students of the School presented a short play written and directed by them. The programme ended with vote of thanks.

3. D. Orientation Courses/Refresher Courses Attended: (*Name of the Teachers, Title of the Course, Duration, Place*): See 1B (Staff Profile of Professor Samita Sen and Dr Aishika Chakraborty)

4. A. Books/Monographs etc. Published: (*Name of the Teacher, Name of the Book, Name of the Publisher*) See 1B (Staff Profile) for books/monographs published by the faculty of the school.

Publications of the School

We have a consistent publication programme. The Bengali Women Writers Reprint Series, which we continue to expand every year, is one major contribution of the School. This is

significant in terms of recovery and translations of lost writings by women in Bengali, another important focus of research mentioned in the UGC twelfth plan guidelines. Through our publications we continue to disseminate information around various issues. The publications of the School in 2017-18 are listed below:

Books:

In English:

1. Uttara Chakraborty: *The Rattling Chains, A Woman in Revolution*. School of Women's Studies, Jadavpur University. Kolkata: 2017.

Newsletter:

1. Volume 34: March 2017: 94 pages. ISSN 2394-2142

4. B. Articles Published in Journals: (Name of the Teacher, Name of the Article, Name of the Journal, Date of Publication, Volume): See 1B (Staff Profile)

5. Collaborative Programmes:

- The School having gained the status of an Advanced Centre in June 2011 has been a nodal centre in the Eastern Region. It has been involved in clustering and twinning activities of other women's studies centres in the region. Being a more experienced centre, it has been able to provide support to upcoming and existing women's studies centres in other universities and colleges. The School has maintained institutional exchange programmes with women's studies centres of other Universities in West Bengal such as Rabindra Bharati, Visva Bharati, Burdwan University, Calcutta University and Diamond Harbour Women's University. The individual members of the School have also been a part of statutory and academic bodies of different departments of other Universities and colleges. They have also been involved in teaching and academic and research activities of other departments within the University.
- The School has continued to strengthen its network with national and international bodies, both Government and Non-Governmental, through its research and action projects. The following list highlights some of the key partners of collaboration through these years.

Government

- Ministry of Women and Child Development, Govt. of India
- National Commission for Women
- Central Ministry of Panchayati Raj, Govt. of India
- State Women's Resource Cell
- West Bengal State Commission for Women
- West Bengal Commission for Protection of Child Rights
- Ministry of Social Welfare, Govt. of West Bengal

Non-Government

- Sramik Sahayata Kendra
- Mahanirban Calcutta Research Group
- Jeevika
- Parichiti
- Trade Union Coordination Committee, PashchimbangaAragami Domestic Workers' Union
- Sristy for Human Society
- Sastrika
- Kolkata Sanved
- Action Aid
- UNICEF
- AJWS

Annual Report 2018-19

- Durbar Disha Mahila Grihasramik Samanvay Committee
- All India Central Council of Trade Unions's Shara Bangla Sangrami Paricharika Union affiliated to CPI(ML) and
- All India United Trade Union Centre's Shara Bangla Griha Paricharika Samiti affiliated to SUCI(C).

The research projects pursued in the School have throughout had an interface with members of the autonomous women's groups and with individuals from non-governmental organisations. There have been engagements with domestic workers movements, collaborations with organisations working on child marriage and trafficking. Faculty members of the School have been part of organisations namely, Sachetana and Maitree network.

Partnerships with other Departments of the University

- The School has collaborated with the Rabindranath Studies Centre, Faculty of Arts, Jadavpur University to conduct an undergraduate (E.D.) teaching programme titled, "A New Femininity: Rabindranath Then and Now" which is popular among the undergraduate students of the University. Two of our faculty members, Dr Aishika Chakraborty and Dr Hardik Brata Biswas take regular classes in the course.
- Hardik Brata Biswas teaches in the Post Graduate Certificate course on "Digital Humanities" conducted by the School of Cultural Texts and Records, Jadavpur University.

Partnerships with UGC Women's Studies Centres

- Professor Samita Sen is a member of the Advisory Committee of various Women's Studies Centres in various parts of the country.
- Dr Aishika Chakraborty was the member of the Editorial Committee of the *The Other Universe, Anthology on Women's Studies*, Lady Brabourne College. She is the member of the Syllabus Committee, Diamond Harbour Women's University, Kolkata. She is also the member of the syllabus committee of the Department of Performing Arts, Presidency University, Kolkata. She is also the Examiner of M. Phil and PhD dissertations of a) Jawaharlal Nehru University, New Delhi; b) Rabindra Bharati University; c) Kalyani University.

Partnerships with other Universities

- Dr Prarthana Purkayastha of Royal Holloway University of London delivered a special lecture on "Choreographing Protest: Dance in the IPTA Movement" on 9 August 2017 at Vivekananda Hall, JU.
- The School has also invited academics from different national and international universities to present their memorial lectures. XVIII Sukhalata Rao Memorial Lecture on "Draupadi's Travels" was delivered by Dr Urmimala Sarkar Munsri, School of Arts and Aesthetics, Jawaharlal Nehru University, New Delhi on 23 October 2017 at Vivekananda Hall, JU. III Ranjabati Sircar Memorial Lecture on "Rethinking the Politics of Interculturalism in Dance: Possibilities, Traps and a Search for Alternatives?" was delivered by Professor Rustom Bharucha, School of Arts and Aesthetics, Jawaharlal Nehru University, New Delhi on 29 March 2018 at Vivekananda Hall, JU.
- Dr Hardik Brata Biswas has been teaching in the M.A. course in Women's Studies at the Diamond Harbour Women's University, West Bengal and is a member of their moderation committee as well. He has delivered a special lecture on Caste and Gender in M.A. course in sociology at the Department of Sociology, Rabindra Bharati University.

Partnerships with Colleges within the University and outside the University

- The School has partnered and collaborated with various colleges outside the University to conduct conferences, workshops and seminars.

- The School of Women's Studies in collaboration with the Department of International Relations, JU organized a UGC-HRDC Short Term Course on Gender Sensitization on 'Thinking through Gender' from 1-7 February 2018. Teachers from various colleges participated in this course and teachers from the School acted as resource persons.

Major Achievements:

- **Centre of Advanced Studies:** The School of Women's Studies, Jadavpur University, was formed in the late 1980s under the visionary leadership of Professor Jasodhara Bagchi with a mandate to develop feminist scholarship, develop the emerging field of Women's Studies and strengthen its interface with women's movements. Since then the School has come a long way and was granted the status of Advanced Centre in Women's Studies by the UGC in June 2011. The status of Centre of Advanced Studies and the granting of several new posts (teaching and non-teaching) by the UGC enabled the consolidation of the process.
- Our faculty members have been successfully working on research projects funded by organisations such as AJWS, India Foundation for Arts, ICSSR. They are members of distinguished associations and organisations including editorial boards of feminist journals. Professor Samita Sen is member of the editorial board of various important journals such as *Modern Asian Studies* (Cambridge), *Journal of Gender Studies* (CWDS, New Delhi); *Journal of History* (Jadavpur University). She is in the Editorial Consultancy Board of *South Asian History and Culture* (Routledge). Dr. Aishika Chakraborty is the reviewer of a) JEDS, *Journal of Emerging Dance Scholarship*, online journal of World Dance Alliance, b) the papers presented at International Conference of World Dance Alliance, 2015-2016 and c) *Rivistadegli Studi Orientali*, published by the Dipartimento di Studi Orientali of Sapienza, University of Rome, Italy. Dr Hardik Brata Biswas has edited April 2017 issue of the journal *Alochonachakra*, Vol. 41, Special supplement on Women's Issues.
- The Annual National Conference organized by the School of Women's Studies, has culminated in a publication project 'Women Speak Nation: Gender, Culture and Politics' a trans-disciplinary volume on the relationship between gender, nationalism, culture and politics to be published by Taylor and Francis in 2018. Further the editors, Dr Panchali Ray and Dr Aishika Chakraborty were awarded a small travel grant from the School to enable them to interview women in democratic movements facing and resisting sexual violence and state repression in Manipur and Chhattisgarh. Their research, including interviews with activists, such as Irom Sharmila, Soni Sori, and members of the Meira Paibis will be published in the said volume.
- The faculty members have acted as resource persons in various regional and national colleges and Universities.
- The faculty members have significant contribution to publication in the field of Women's Studies. They have contributed to important national and international journals on issues of labour, domestic work, working class politics, nation and politics of performance, nursing care and stigmatized labour, care regimes and transnational migration, borders, unpaid work and missing women, etc.

PhD in Women's Studies

The School had initiated its PhD programme in 2004. The programme has expanded rapidly. Research scholars contribute towards planning and organizing different academic and research programmes of the School. They also run a PhD Research Forum, where the scholars present their research

work in presence of experts from their respective areas. They enthusiastically participate in various seminars, conferences and workshops nationally and internationally. This helps them in developing their expertise on aspects related to the field of women's studies. The PhD students are working on varied areas ranging from gender and informal labour, women in higher education, women in diasporic films, women's political participation, domestic violence, education, self-help groups, migration, imprisoned women foreigners, women's movements, empowerment, and surrogacy to travel accounts, visual culture, representations of masculinity and textuality.

M. Phil in Women's Studies

The M. Phil programme in Women's Studies was initiated in 2000 and we have successfully completed 18 years of this programme. The programme was affiliated under the Faculty of Arts until 2013, when it shifted to the Faculty of Interdisciplinary Studies, Law and Management. In 2016, M.Phil seats increased on a supernumerary basis for OBC students from 15 to 18. The students of M.Phil at the School have always been from various disciplines namely humanities, social sciences, physical science, medical science, social work, technology and commerce as well. In the period between April 2017 and March 2018, three batches of M. Phil were running successfully – 2015-17, 2016-18, 2017-19.

E.D. (Extra Departmental) Course in Women's Studies

The School has been running the course successfully since the past seven years and students register from various departments of the University namely English, Comparative Literature, History, International Relations, etc. We have also noticed a rise in enrolment in the E.D. course (E.D. 4.32) with numbers in the January to May 2018 session having increased from 39 to 59. The session from July to December 2017 (E.D. 3.19) had 50 students enrolled in the course, a sharp increase from 26 admitted in the course in 2015.

E.D. (Extra Departmental) Course at the Rabindranath Studies Centre, Faculty of Arts

The Extra Departmental course titled 'A New Femininity: Rabindranath Then and Now' (E.D. 4.31) designed by the School of Women's Studies and offered at the Rabindranath Studies Centre at the Faculty of Arts had subscriptions from 61 undergraduate students from the departments of Bengali, International Relations, English, Comparative Literature and Philosophy. In this semester (January-May 2018), the course was taught by Dr Hardik Brata Biswas, Professor Samantak Das, Director, Rabindranath Studies Centre, and Dr Sujit Kumar Mondal, Department of Comparative Literature. The usual internal assessment examinations have been conducted, question paper for the end semester examinations have been set and moderated and students appeared for their end semester examination held in May 2018.

Developing Our Own Teaching and Research Materials

The School has always realised the need to generate their own teaching and research materials to cater to the learning requirements of their students. In this process, we have already published four readers which have become popular at a national level among the different women's studies centres. The four readers published from the School are as follows:

- *Mapping the Field: Gender Relations in Contemporary India* (Vol. I + II) edited by Nirmala Banerjee, Samita Sen, Nandita Dhawan (2011)
- *Cultural Constructions of Gender*, edited by Kavita Panjabi and Paromita Chakravarti (2012)
- *Shaping the Discourse: Women's Writings in Periodicals 1865-1947* (Readings in Gender Studies 3) edited by Ipshita Chanda, Jayeeta Bagchi (2014)

- *Voices of the Talking Stars: Women of Indian Cinema and Beyond*, edited by Madhuja Mukherjee (2017)

The translation of select essays from English to Bengali for the Reader *Mapping the Field: Gender Relations in Contemporary India*, Readings in Gender Studies Vol. I and Vol. II, (eds.) Nirmala Banerjee, Samita Sen, Nandita Dhawan is in progress.

The Library's collection is enriched by some audio-visual materials on dowry, women's right on different issues, domestic violence, gender sensitization, women's empowerment, songs of scroll painters, women and folk culture, right to legal aid and different types of movies on feminist perspectives. In the period under consideration, the School of Women's Studies with active participation and voluntary professional guidance from feminist activist and filmmaker Ms Madhusree Dutta organized a professional broadcast quality video film based on lectures by the eminent historian of gender and art, Professor Ratnabali Chatterjee. The video has been edited by Madhusree Dutta in Mumbai and in Kolkata and it has come out as one educational lecture on art and gender; first of its kind in the region. The copies are at the library at SWS, JU for use by faculties, researchers and students.

Students' Achievements

NET/ JRF Scholars and other Fellows

The School has always had students with M. Phil and PhD fellowships who have engaged in meaningful research. At present, the School has 4 NET scholars (JRF or SRF), and 5 students who have been awarded the Rajiv Gandhi National Fellowship. These scholarships, especially for students from marginalised sections of the society help in emphasising equity and inclusiveness which has been the focus of the UGC's XII plan.

- Our students actively participate in seminars, workshops and conferences, both national as well as international.
- The M. Phil students and research scholars have publications in edited volumes and journals with ISBN and ISSN numbers respectively.
- Students' research interests cover a wide range of issues from social marginality to empowerment, female subjectivity in films and literature, feminist reading of Ismat Chughtai, women in Khasi tribe, empowerment of Muslim women, gender issues in informal sector, feminist philosophy, etc. they have also participated in workshops on oral history, research methodology, ecofeminism and counter revolution. Many M. Phil students have registered in the School's PhD programme and have also joined as teachers in colleges and Universities after completing their M. Phil programme.

Newsletter:

The School has a series of occasional papers as well as a regular Newsletter published tentatively thrice a year since 1992. Till date we have 34 volumes of the Newsletter published highlighting the Schools' activities, faculty research and teaching, and features by students and faculty members. The journey covered by these thirty-four Newsletters is an exciting one. The different sections of the Newsletter covering the editorial, activity report, project report, library holding, section on articles focusing on specific issues, obituary, book review have greatly facilitated the networking objectives of the school and have acted as a catalyst for generating research and discussion on Women's Studies among faculty and students within and outside Jadavpur University throughout its journey. The School had successfully brought out the Index of the Newsletter from 1992 to 2008 in two phases. The decadal Newsletter

Annual Report 2018-19

published in the year 2000 adequately cover activities and the involvements of the school in the first phase of its existence. The second phase of the Newsletter beginning from September 2000 till date shows a trend towards greater maturity reflecting a more cohesive reporting of the activities of the school. An indexing of women writers' work in different magazines during late nineteenth century and early twentieth century continued to occupy a section of the newsletter for a considerable period of time. The reprint section of the Newsletter is carrying on the tradition, as is the flourishing continuity of our reprint series. The School has the provision of circulating the Newsletters to different women's studies centres all over India and also possesses a mailing list. The Newsletter which records an ever-expanding horizon of action and research has been given a new dimension in 2015 with the achievement of an ISSN number in its 33rd volume. The latest volume (34) of the newsletter, published in March 2017, documents our various activities in 2016.

Annual Report 2018-19

ADVANCED RESEARCH IN PHARMACEUTICAL SCIENCES

(Dr. V. Ravi Chandran Endowment Fund)

[Dept. of Pharmaceutical Technology]

Int. : 2457-2495

Coordinator : Prof. Biswajit Mukherjee

E-mail : vrccps.centre@jadavpuruniversity.in

Centre for Advanced Research in Pharmaceutical Science (Ravi Chandran Endowment Fund, CARPS, Jadavpur University, Kolkata has been working on pioneer research work related to formulation development and drug targeting area. We work on drug targeting both by conventional and non-conventional ways, with a special emphasis on nanosize drug formulation and brain delivery and other biochemical aspects of neuropharmacology, cancer and diabetes.

Besides, the centre provides fellowships to one B. Pharm. Under Graduate student of each class on the merit –cum-means basis every year and also funds a Research Scholar for PhD and conduct various seminar and invited lectures on the related area.

List of Some Selected Publications:

1. Sanchari Bhattacharya, Laboni Mondal, Biswajit Mukherjee, Lopamudra Dutta, Iman Ehsan, Mita C. Debnath, Raghubir H. Gaonkar, Murari M. Pal, Subrata Majumdar (2018). Apigenin loaded nanoparticle delayed development of hepatocellular carcinoma in rats. **Nanomedicine: Nanotechnology, Biology and Medicine. 14**: 1905-1917
2. Lopamudra Dutta, **Biswajit Mukherjee**, Tapas Chakrabarty, Malay Kumar Das, Laboni Mondal, Sanchari Bhattacharya, Raghubir H. Gaonkar, Mita Chatterjee Debnath (2018). Lipid based nanocarriers efficiently deliver highly water soluble drug across the blood brain barrier into brain. **Drug Delivery. 25**:504-516
3. Paramita Paul, Soma Sengupta, **Biswajit Mukherjee**, Tapan K Shaw, Raghubir H. Gaonkar, Mita Chatterjee Debnath (2018). Chitosan coated nanoparticles enhanced lung pharmacokinetic profile of voriconazole upon pulmonary delivery in mice. **Nanomedicine (Lond.) 13(5):501-520.**
4. Ghosh S, **Mukherjee B**, Chaudhuri S, Roy T, Mukherjee A, Sengupta S (2018). Methotrexate Aspasomes Against Rheumatoid Arthritis: Optimized Hydrogel Loaded Liposomal Formulation with In Vivo Evaluation in Wistar Rats. **AAPS Pharm Sci Tech. 19(3):1320-1336.**
5. Tapan Kumar Shaw, Dipika Mandal, Goutam Dey, Murari Mohan Pal, Paramita Paul, Samrat Chakraborty, Asraf Kazi Ali, **Biswajit Mukherjee**, Amal Kumar Bandyopadhyay, and Mahitosh Mandal (2017). Successful delivery of docetaxel to rat brain using experimentally developed nanoliposome: a treatment strategy for brain tumor. **Drug Deliv. 24**: 346-357.
6. Saaikat Ghosh, Laboni Mondal, Samrat Chakraborty and **Biswajit Mukherjee** (2017). Early Stage HIV Management and Reduction of Stavudine-Induced Hepatotoxicity in Rats by Experimentally Developed Biodegradable Nanoparticles. **AAPS Pharm Sci Tech. 18(3):697-709.**

Books/ Book Chapters:

1. **Biswajit Mukherjee**, Paramita Paul, Lopamudra Dutta, Samrat Chakraborty, Moumita Dhara, Laboni Mondal, Soma Sengupta. Pulmonary administration of biodegradable drug nanocarriers for more efficacious treatment for fungal infections in lungs: insights based on recent findings (2017). Multifunctional system for combined delivery, Biosensing and diagnostic. Edited by Alexandru Mihai Grumezescu. Publisher: Elsevier. Chapter 14 Page no. 261-277. ISBN: 978-0-323-52725-5
2. **Biswajit Mukherjee**, Samrat Chakraborty, Laboni Mondal, Ankan Chowdhury, Bhabani sankar Satapathy, Sanchari Bhattacharya. Antisense oligonucleotide-mediated target-specific gene silencing:

Design, delivery strategies and therapeutic (2017). Biotargets and Drug Delivery Approaches. Edited By Maity S and Sen K. Publisher: CRC press. Page no. 297-346. ISBN 13:978-1-4987-2999-4

3. Biswajit Mukherjee, Samrat Chakraborty, Laboni Mondal, Bhabani Sankar Satapathy, Soma Sengupta, Lopamudra Dutta, Ankan Choudhury and Dipika Mandal. Multifunctional drug nanocarriers facilitate more specific entry of therapeutic payload into tumors and control multiple drug resistance in cancer. In: Nanobiomaterials in Cancer therapy. Applications of Nanobiomaterials. Edited by Alexandru Mihai Grumezescu. 2017. Chapter 7, Vol. 7. Publisher: Elsevier. ISBN: 978-0-323-42863-7.

Patent Published:

Mukherjee Biswajit, Sengupta Soma, Paul Paramita. Process and carrier for targeting drugs/diagnostics of peripheral and central nervous system. Application No: 201731033454; Dated: 21.09.2017. (Published on 20.10.2017)

Popular Article:

Dipak Kumar Mal, Iman Ehsan, Biswajit Mukherjee. Materivigilance and Hemovigilance in relation to patient safety. Asian Hospital and Health Care Management, 41, 2018, 11-19.

B. ICMR Emeritus medical, Scientist, Department of Pharmaceutical Technology, Jadavpur University Kolkata:

Prof. (Dr.) Mrinal Kanti Poddar

C. Research Scholars:

Mrs. Tusi Chakraborty, CARPS
Ms. Apala Chakraborty, ICMR

D. Seminar Conducted:

A National Seminar on '**Drug Formulary**' conducted by **Community Development Medical Unit in collaboration with Shramajibi Swasthya Udyog and IAPST held on 25th May 2018** at Dr. H.L. Roy Building, Jadavpur University, Kolkata

Projects:

Prof. A. Samanta and Prof. B. Mukherjee, Fabrication and Characterization of Natural polysaccharide based bioerodible localized spongy scaffold: A new advanced wound care tool. Funded by Defense Research Development Organization, (Ref: No. O/o DG (TM)/81/48222/LSRB-318/SH & DD/2017.

Leena Kumari, Site-specific targeting of biodegradable polymeric nanoparticles for the treatment of lung cancer: an in vitro and in vivo approach. CSIR (Ref.no.-09/096(0928)/2018-EMR-I). 01/05/2018.

Iman Ehsan, Design and development of antibody conjugated biodegradable nanoparticles containing paclitaxel for the treatment of prostate cancer. ICMR (Ref.no.-2017-3968).

Invited Lecture Delivered:

Prof. Biswajit Mukherjee has delivered invited lecture and chaired a session in the 44th European Radiation Research Congress 2018 from 21-25 August 2018 at Pecs, Hungary.

Prof. Biswajit Mukherjee has delivered invited lecture 20th February 2018 at Delhi Institute of Pharmaceutical Sciences and Research, New Delhi, in the 24th Quality Improvement Programme on Current Updates in Pharmaceutical Chemistry

Prof. Biswajit Mukherjee has delivered invited lecture 12th February 2018 at Guru Ghasidas Vishwavidyalaya, Bilaspur, in the National Seminar on Recent trends in drug discovery, development and delivery systems

Annual Report 2017-18

COMPUTER AIDED DESIGN CENTRE [Department of Computer Science & Engg.]

Tel.: 2414-6844

Int. : 2457-2960

Director : Prof. Chiranjib Bhattacharjee

1. A. Courses Offered:

Name of the Course	Duration of the Course	No. of courses Offered	Total no. of students
P.G. Diploma in Applied Remote Sensing and GIS (Geoinformatics)	One year	5	148
Diploma in Multimedia and Animation	One year	3	84
Auto CAD with AutoLISP	11 weeks	7	210
Structural Analysis And Design	10 weeks	2	59
Advanced 3D Modelling	10 weeks	1	12
WebGIS	4 months	1	15
Winter Training Course on AutoCAD for JU students	5 days	1	30
	Total	20	558

1. B. No. of Faculty Members : The Centre is conducting various professional short-term courses with the help of 11 visiting faculties.

2. A. Area of Research Activities (Broad Areas) : CAD and Geoinformatics

3. A. Invited Lectures Delivered: 7 Nos. (*Name of the Teacher–Topic–Type of Participants–Name of the Seminar / Conference / Workshop–Place–Duration*)

Dr. Basudeb Bhatta

1.Remote Sensing Image Classification

2.Global Navigation Satellite System

3.Remote Sensing Techniques for Monitoring and Management of Land-use and Land-cover–JRF and SRF–Workshop on Research Methodology–Presidency University, Kolkata–6-8 Dec, 2017

Dr. Basudeb Bhatta

1.Introduction to Remote Sensing

2.Processing and Interpretation of Remote Sensing Images

3.Applications of Remote Sensing–Civil engineering graduates–Workshop on Advancements in Civil Engineering–Rizvi College of Engineering, Mumbai–8-12 Jan, 2018

Dr. Basudeb Bhatta–GIS in QGIS–M.Phil/Ph.D. Scholars–Workshop on Information Science and Technology–University of Calcutta (College St. Campus), Kolkata–12-14 Mar, 2018

Dr. Basudeb Bhatta–Geosimulation in QGIS–M.Phil/Ph.D. Scholars–Workshop for hands-on training programme in QGIS software–Applied Geospatial Solution, Kolkata–31 Mar –1 Apr, 2018

Mr. Biswajit Giri–An Overview of GIS and QGIS–Under Graduate students–Short term course on Geoinformatics–Bankura Christian College–1st May – 10th May,2017

Mr. Biswajit Giri–Introduction to QGIS–Graduate / Post Graduate students–Workshop on QGIS Software–Loreto College, Kolkata–21st Sep -22nd Sep, 2017

Mr. Biswajit Giri–Hydrological Analysis & Suitable Site Selection analysis–JRF and SRF–Workshop on Research Methodology–Presidency University, Kolkata–6-8 Dec, 2017

C. Seminar/Workshop/Conference/Symposium Organized:

Organized a two-day workshop on QGIS, in collaboration with Department of Geography, Loreto College and Department of Geography, University of Calcutta, on 26-27 April, 2017.

6. Major Achievements :

In the last 33 years, the Centre has trained more than 9500 industry professionals, students and researchers in Computer Aided Design, Geographic Information System, Remote Sensing, Multimedia, and related areas. The Centre has also executed several R&D and Industrial projects since 1987. Recently the Centre is focusing to offer several cutting edge technologies to the industry professionals and higher education students.

CONDENSED MATTER PHYSICS RESEARCH CENTRE

[Department of Physics]

Tel.: 2413-8917

Int. : 2457-2760

Coordinator : Prof. Brajadulal Chattopadhyay

E-mail : cmprc.centre@jadavpuruniversity.in

A. Publications:

1. Bipan Dutta, Biplab Bhattacharjee, and Joydeep Chowdhury* (2018). Physics behind the Barrier to Internal Rotation of an Acetyl Chloride Molecule: A Combined Approach from Density Functional Theory, Car–Parrinello Molecular Dynamics, and Time-Resolved Wavelet Transform Theory., *ACS Omega*, 3, 6794.
2. Sannak Dutta Roy, Manash Ghosh and Joydeep Chowdhury* (2018). Near-Field Response On The Far-Field Wavelength-Scanned Surface Enhanced Raman Spectroscopic Study Of Methylene Blue Adsorbed On Gold Nanocolloidal Particles:, *J. Phys. Chem. C*, 122, 10981.
3. Sumit Kumar Das, Manash Ghosh, Joydeep Chowdhury* (2018). Effects of surface topography on SERS response: Correlating nanoscopy with spectroscopy. *Appl Surf. Sci.*, 439, 1.
4. Joydeep Chowdhury*, Somsubhra Saha, Manash Ghosh(2018). Self-assembly of metal nanocolloids entrapped in Langmuir Blodgett Film templates: Evidence of efficient SERS sensing platforms. *Materials Today: Proceedings*, 5, 10071.
5. Sannak Dutta Roy, Joydeep Chowdhury*(2018). Adsorption of Dyes on nanocolloidal gold surfaces: The key towards understanding the mechanism of SERS. *Materials Today: Proceedings*, 5, 10042.
6. Dutta Roy, Pinaki Sett, Manash Ghosh and Joydeep Chowdhury*(2017). Charge transfer mechanism and the adsorptive stance of Methylene Blue on Gold Nanocolloids: A vis-à-vis aftermath. *J. Raman Spectrosc.*, 48, 38.
7. Anindita Roy, Ramkrishna Sahoo, Joydeep Chowdhury, Tara Shankar Bhattacharya, Ratnesh Agarwal, Tarasankar Pal(2017). Directional growth of Ag nanorod from polymeric silver cyanide: A potential substrate for concentration dependent SERS signal enhancement leading to melamine detection. *Spectrochim Acta Part A*, 183, 402.

8. Pinaky Sett, Shirsendu Datta, Joydeep Chowdhury, Manash Ghosh, Prabal Kumar Mallick(2017). Spectroscopic and Raman excitation proûle studies of 3-benzoylpyridine. *Ind. J. Phys.*, 91, 771.
9. Gopa Dutta Pal, Bipan Dutta, Tapan Ganguly, Joydeep Chowdhury*(2017). Role of gold nanocolloids on the photostability of 2-hydroxy-5-methyl benzaldehyde molecule and evidence of excited state intramolecular proton transfer process aided by DFT, non-adiabatic Ab Initio molecular dynamics simulations. *J. Lumin.*, 188, 378.
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B. Projects - New and Ongoing: (Title–Rs–Duration–Agency)

- 1 Fabrication of highly reproducible SERS active substrates through controlled plasmonics and their applications in ultrasensitive chemical and biological sensing. Sanction Order No.: 03(1437)/18/EMR-II –21.82 Lakh–ongoing–CSIR
- 2 LAB ON CHIPS for trace detections of arsenic, melamine, heavy ions and in one click diagnostic applications using SERS. Sanction Order No.: 202 (Sanc.)/ST/P/S&T/16G-22/2017 –13.58 Lakh –2017-ongoing –Department of Higher Education, Science & Technology and Biotechnology, Govt. of West Bengal
- 3 A Study of Anti-Hyperglycemic properties of *Gymnedenia Orchidis* Lindl of orchidaceae Family –2017-2018–RSSDI
- 4 Studies on the influence of ion beam irradiation coupled with gamma irradiation on the behaviour of high melting thermoplastics and polymer nano-composites PI: Ruma Ray; CI: Sujata Tarafdar & SanatKarmakar–One research fellow +Annual contingency of Rs. 25,000 /--2015-2018–UGC
- 5 Understanding the mechanism of action of homeopathic medicine at the molecular level in nano domains in vivo and in vitro systems PI: Dr. P. Nandy; CI: Dr. S. Das &Dr. A. Kar–2015-2018–CCRH

Annual Report 2017-18

- 6 Studies on the interaction of antimicrobial peptide with phospholipid membranes PI: Sanat Karmakar–43,05,000.00–2016-2019–DBT
- 7 Studies on Heisenberg spin chains with Dzyaloshinskii-Moriya interaction in the presence of fields PI: –Asim Kumar Ghosh–18,75,008.00–2016-2019–DAE BRNS
- 8 0 MeV Li-ion Damage in Fe-Superconductors with Probing by positron Annihilation and Measurement of Bulk Properties and Structure PI: Udayan De–2017–IUAC
- 9 Investigation of heavy surface damage in Ba(Fe,Co)₂As₂ crystals by low energy ion beams PI: Udayan De–2016–IUAC

C. Conferences/Seminar Attended and Invited Lectures:

Invited talk on “Choice of Right laser excitation is important to accomplish maximum SERS enhancement: Correlating Near-Field plasmonic response with the Far-Field SERS Spectra” in the the 90 Years of Raman Effect: Current Status and Future Direction, held on February 27 – March 02, 2018, at Indian Institute of Science (IISc), Bangalore, India.

List of Seminars During May 2017- 2018 (No. –Date–Name of speaker–Affiliation–Topic–Attendance)

- 1 19/05/17–Mr. Rivu Gupta & Ms. Adreaja Mondol–B.Sc, Physics Dept., St. Xaviers College, Kolkata –Revisiting Newton’s law of Cooling using Fractional Calculus–14
- 2 26/05/17–Mr. Sumanta Kundu–S. N. Bose National Institute for Basic Sciences–Percolation : A Simple Model of Phase Transition–12
- 2.a 16/06/2017–CMPRC meeting –16
- 3 10/07/17–Prof. Amartya Kumar Dutta –ISI, Kolkata–Emergence of Algebra in Ancient India –29
- 4 15/09/17–Mr. Soumyodeep Banerjee ASHUTOSH COLLEGE, Kolkata–Evolution of Mud Cracks and Seimites–12
- 5 22/12/17–Prof. Sabyasachi Bhattacharya–Ashoka University, Haryana–Perfectly Reasonable Applications: working with the physical world–38
- 6 06/04/18–Prof. Sudeshna Banerjee–Jadavpur University (Mathematics Dept)–Women and Education in Ancient World–20
- 7 04/05/18–Mr. Subrata Chandra–CMPRC, Jadavpur University–Lifting Hele Shaw Cell Study of Non Newtonian Fluids: Analytical and Simulational Study–12
- 8 23/05/2018–Prof. Amalesh Sirkar–Haldia Institute of Technology, (Haldia, East Midnapur, WB) –Interfacial Phenomena In Liquid-Liquid Systems Due To Mass Transfer Across The Interface Under Static Condition–6
- 9 25/07/2018–1) Prof. Goutam R. Desiraju–2) Prof. Alok Kumar Mukherjee–1) IISc, Bangalore 2) Jadavpur University–1) Crystal engineering: From molecule to crystal 2) 100 years of X-ray power diffraction –300
- 10 24/08/2018–Dr. Abhirup Ghosh–International Centre for Theoretical Sciences, TIFR, Bangalore, India.–Einstein’s legacy: Songs from the stellar graveyard and the 2017 Nobel Prize in Physics 18

DISABILITY STUDIES

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Jt. Coordinators : Dr. Muktipada Sinha
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The year has been really eventful. For the information of our readers the Centre has been mainly running with UGC UPE II Budget since December 2012. Initially we had got the project till March 2017 and was further extended till March 2018 by UGC, and consequently still further extended till March 2019. We are not sure if will get any further extension based on the new rules and regulations of UGC but as we wish to continue our companionship we have applied for other funds and projects and hope to attain them soon. We have applied to the Ministry of Human Resource Development and the Ministry of Social Justice and Empowerment, Govt. of India for Infrastructural Development for Undertaking Various Activities for Persons with Disability under Scheme for Implementation of Persons with Disabilities Act (SIPDA), at Different Buildings of Jadavpur University Main Campus, Kolkata, and to the Government of West Bengal, Department of Higher Education, Science & Technology and Biotechnology, Vigyan Chetana Bhavan, Kolkata for preparing Audio Books for the Disabled: A Comprehensive Collection of Under Graduate and Post Graduate Bengali Syllabi, Jadavpur University. We have also applied to UGC through the University for two projects: "Audio Books for the Disabled: A Comprehensive Collection of Under Graduate and Post Graduate Syllabi of all Departments of Arts Faculty, Jadavpur University", and "Project for Making Buildings Barrier Free for the PWDs in Jadavpur University" as a proposal for granting the status of an "Institution of Eminence" under the category "Existing Government Educational Institutions". We ardently hope and expect to get these projects soon and to continue our services in the field.

Special Support Service

- 1. Audio Book Library:** The primary objective of this project is to provide equal educational opportunities to the persons with disability especially the visually impaired in higher education. The latest technique to provide reading materials to visually impaired students is the 'Audio Book' or 'Talking Book' in electronic format. Earlier we used to record audio books based on the syllabus of the different departments of Jadavpur University. At present we have expanded our area of recording and we are preparing different Bengali and English literature books which can be used by the University and its faculty for academic purposes. Apart from this we are also recording different articles and journals related to Disability Studies. The Centre has so far prepared more than 200 Audio books in the forms of CDs and DVDs.

The Academic Committee of the Centre has resolved to engage Dr. Dipayan Pattanayak, Associate Professor of Philosophy, and Mr. Ishan Chakraborty, Assistant Professor of English as Co-Principal Investigators to oversee the project.

Method: At present one Book-reader (also associated with All India Radio, Kolkata) and one Voice Editor have been appointed on temporary basis for the preparation of audio books. The book readers first record the book in MP3 format through a voice recorder and then the voice editor

makes the necessary corrections in that MP3 track. The corrected tracks are then separated in chapters as per the contents of the book and preserved in our library for lending, after being written in CDs or DVDs.

2. **Basic Computer Course:** The Centre has a MOU with Welfare Society for the Blind, New Alipur, where the visually disabled persons are trained for basic computer operation. The Centre assessed those persons after the completion of their training and provided Certificates, signed by the Jt. Coordinators of the Centre. We strongly believe that computer literacy will equip them with the confidence necessary to face and excel in various professional fields.
3. **Assistive Technological Supports:** We, ourselves installed JAWS software in the Central Library and in the departmental libraries of some departments under Arts Faculty.
4. **Counselling Course:** The Centre has started a one year Post Graduate Diploma course in “Guidance, Psychological Counselling & Family Therapy” (passed by Executive Council of Jadavpur University) on and from 2nd May 2013. A dozen of Resource persons and faculties from different universities and some Psychiatrists as well as Psychological Counselors are appointed for this course. The Academic Committee of the Centre has resolved to super numerate the seats of the 1 year PG Diploma Course in “Guidance, Psychological Counselling and Family Therapy” for this year. Owing to huge demands from senior professionals from various social sectors like nursing colleges, schools and special care homes, the Committee has decided to take 10 additional applicants, thus making the total number of seats to 40 instead of 30 for the current session 2017-18. At present the Centre is successfully running its fifth batch.

Intensive Research Work of the Centre

Two research projects are undergoing at the Centre currently.

1. Ongoing Project of Critical Directory on Disabilities

The main objective of the project is to prepare and maintain a directory that will contain an up-to-date database of the *students with special needs* and the Teaching and Non-teaching Staff of the university. The directory will also contain details of laws implemented for the disabled people and various governmental and nongovernmental organizations working for the impaired persons with an aim to provide guidance. This project will be continued with every new admission in every academic year followed by a publication of a booklet containing the database of the *students and staff with special needs*.

2. Education and Awareness among Persons with Disability in Barasat Areas

The Centre has completed a field survey on the above mentioned topic at two blocks in the Barasat area under the supervision of Dr. Muktipada Sinha & Dr. Manojit Mandal, Jt. Coordinators of the Centre. At present we are preparing the detailed survey report on this project, which will be published very soon.

We are planning to start our next field survey in the Jangalmahal areas in 2018-2019.

3. Smart Phone based Voice Assisted Campus Navigation System

The Centre started a 1 year project on the Development of Smart Phone based Voice Assisted Campus Navigation System to help the Visually Impaired Persons. The objective of this project is to develop an Android operating system based smart phone application which will provide audible directive messages to persons with vision impairment while approaching different areas within Jadavpur

Annual Report 2017-18

University campus. For now the project is going through thorough investigation due to some technical dispute and is expected to be launched very soon for the benefits of our fellow friends.

Seminars and Others:

1. On 7th August 2017 the Centre organized an UGC sponsored International Symposium on “Identity, Border and Nation”. The programme was enlightened by Poetry performance and dialogues by Adeena Karasick, Poet, Artist and Professor Pratt Institute, St. John University, New York and Sri Subodh Sarkar, Poet and Chairperson of Paschimbanga Kabita Academy along with poetry reading by Professor Sanjukta Dasgupta, Former Head, Department of English and currently Dean, Faculty of Arts, Calcutta University and Professor Sharmila Ray, Associate Professor and Head of the Department of History City College, Kolkata under Calcutta University.
2. On 7th December 2017 the Centre Organized a National Seminar on Education, Emotion and Contemporary Global World to Celebrate World Disability Day. The programme was inaugurated by Sri. Biman Banerjee, Hon’ble Speaker, West Bengal Legislative Assembly, and Mr. Craig Hall, Hon’ble U.S. Consul General in Kolkata. We celebrated the day by felicitating Suvro Joarder, Captain of Indian Cricket Team (special) for his remarkable achievement. The programme was followed by pre- launching of JU Guide App (GPS Project) by Sri. Sovan Chatterjee, Hon’ble Mayor, Kolkata Municipal Corporation in presence of all the Honourable dignitaries. This is a development of Smart Phone based voice assisted Campus Navigation System to help visually impaired persons.
3. On 7th February 2018 the Centre organized an UGC Sponsored International Symposium on “Psychology, Identity & Poetry: A Multicultural Perspective”. The programme was enlightened by Poetry performance and dialogue by Murat Nemet Nejat, Poet, translator and Essayist, Bob Holman, Renowned American Poet and Sri Subodh Sarkar, Poet and Chairperson Paschimbanga Kabita Academy, followed by a performance by Professor Rimi B Chatterjee, Department of English, Jadavpur University, Professor Jaydeep Sarangi, bilingual writer, academic, editor, translator, academic administrator and Sri Goutam Dutta .
4. On 21st February 2018 the Centre celebrated “Bhasha Dibas” jointly with Department of Education, Jadavpur University. The programme was inaugurated by Pro Vice Chancellor Prof. Pradip Kumar Ghosh and Prof. Subhasish Biswas, Dean, Faculty of Arts.
5. On 23rd March, 2018, the Centre organized an International Seminar on ”Kanyashree, Life Skills and Disabilities: Empowering the Dis-empowered” in collaboration with Caring Minds, Kolkata. The Seminar was inaugurated by Dr. Sashi Panja, Hon’ble Minister, State for Women & Child Welfare and Social Welfare, in presence of Prof. Pradip Kr. Ghosh, VC, JU (acting), Prof. Chiranjib Bhattacharjee, Registrar, JU (acting), Smt. Minu Budhia, Caring Minds, Kolkata, Md. Shadman, WBRS, Md. Fazle Ramzan Khan, Eastern University, Bangladesh. The Keynote speech was delivered by Sunita Ranjan, Secretary, Indian Association of Life Skills Education.

Publications:

1. International Research Journal, Volume III, ‘Persons with Special Needs and Rehabilitation Management’, (ISSN: 2321-9254), enlisted in UGC list of Journals, 2016.
2. A book on “Higher Education, Universities and Excellence: The Bengal Narrative”, (ISBN: 978-93-83660-39-1).
3. Education and Awareness among the Persons with Disability in the Sunderbans Region: A Survey Report, (ISBN: 978-93-83660-36-0).
4. Newsletter 4th Issue.

IC DESIGN & FABRICATION

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2. A. Area of Research Activities:

- 1] Electronic Devices including Semiconductor Nanodevices : Modeling and Simulation.
- 2] Photonics Devices
- 3] Porous Silicon Formation by Alumina Template
- 4] Single electron & spintronics devices and their applications in VLSI circuits
- 5] Perovskite Solar Cells based on Titanium, Nickel and Cadmium doped BiFeO₃ active material.
- 6] Organic and Inorganic Dyesensitized Solar Cell
- 7] VLSI Circuit Design and RF VLSI
- 8] VLSI interconnect delay optimization.
- 9] CMOS MEMS integration and signal conditioning of gas sensor.
- 10] Porous silicon low pressure sensors
- 11] Study of nanocrystalline silicon, Zinc Oxide TiO₂ and its application on Solar Cells and gas sensors.
- 12] Design and simulation of RF MEMS based capacitive switch.
- 13] Nano-devices and Low power VLSI circuits
- 14] MEMS, NEMS, RF MEMS and Gas Sensors
- 15] Microwave passive device
- 16] Antenna optimization
- 17] Substrate integrated waveguide
- 18] Microwave and millimeter wave antennas
- 19] Dielectric resonator antennas (DRA)
- 20] Antennas for 5G systems
- 21] Antenna Optimization
- 22] Digital watermarking and data security
- 23] Security and Cryptography
- 24] RFID and its applications
- 25] Wireless communication
- 26] Digital signal processing
- 27] Error correcting coding techniques
- 28] Mobile Ad-hoc networks (MANET)
- 29] Wireless sensor networks (WSN)

2. B. Major Research Project:

Prof. Bhaskar Gupta

1. Title of the project: **Antenna System Design for Proximity Sensor**
Role: Principal Investigator
Funding Agency: ARDE, DRDO
Amount (Rs.): 24.725 Lakhs
Status (Project completed on/ongoing): Ongoing
Duration:(2016-2018)
2. Title of the project: **Advanced Materials and Systems (Devices and systems subgroup)**
Role: Principal Investigator
Funding Agency: UGC under UPE II scheme
Amount (Rs.): 26.032 Lakhs
Status (Project completed on/ongoing): Ongoing
Duration: (2016-2018)

Prof. Subir Kumar Sarkar

3. Title of the project: **Cost Effective and Manpower Efficient Real-Time Implementation of RFID Based Surveillance System for Poultry Based Industry in Rural/ Urban Region to Solve the Avian Influenza/Bird Flu Problem**
Role: Principal Investigator
Funding Agency:DST-WB
Amount (Rs.):15.908 lakhs+1 scholar
Status (Project completed on/ongoing): Ongoing
Duration:(2018-2020)
4. Title of the project: **Low Power ASIC-VLSI Implementation of Secure and Authentication Algorithms for Defense Application**
Role: Principal Investigator
Funding Agency: UGC UPE Phase-II
Amount (Rs.): 7.82 lakhs +1 scholar
Status (Project completed on/ongoing): Ongoing
Duration:(2016-2018)
5. Title of the project: **Analytical Modeling and simulation based verification for low dimensional devices suitable for Low Power Application**
Role: Principal Investigator
Funding Agency: UGC UPE Phase-II
Amount (Rs.): 7.32 lakhs + 1 scholar
Status (Project completed on/ongoing): On going
Duration:(2016-2018)
6. Title of the project: **PURSE II**
Role: Co-ordinator
Funding Agency: DST
Amount (Rs.):85 Lakhs
Status (Project completed on/ongoing): On going
Duration: 2015-2018

7. Title of the project: **Analytical Modeling and simulations of SOI/SON MOSFETs: a comparative analysis to get better device for next generation integrated circuits**
Role: Principal Investigator
Funding Agency: UGC MRP-MAJOR-ELEC-2013-19144
Amount (Rs.): 8.325 lakhs + 1 scholar
Status (Project completed on/ongoing): Completed
Duration: (2016-2018)

Dr. Sayan Chatterjee

1. Title of the project: **Design and Development of X band Dual Polarized Waveguide Slotted Array Antenna**
Role: Chief Investigator
Funding Agency: Indian Space Research Organization (ISRO) under RESPOND scheme
Amount (Rs.): 20.86 lakhs
Status (Project completed on/ongoing): Ongoing
Duration: (2017-2019)
2. Title of the project: **Establishment of Special Manpower Development Facility (SMDP- C2SD)**
Role: **Coordinator**
Funding Agency: MeITY
Amount (Rs.): 136 lakhs
Status (Project completed on/ongoing): Ongoing
Duration: (2015-2020)

3. A. Invited Lectures Delivered/Sessions Chaired:

Prof. Bhaskar Gupta

1. Invited Lecture at one day seminar on “Emerging Technology in Telecommunication”, Techno India, Batanagar, April 20, 2017.
2. Invited Lecture at One day national workshop on ”Industry 4.0: Impact on Employment” sponsored by: IASC (Instrumentation Automation Surveillance Sector under Govt. of India), Adamas Institute of Technology, 13th April, 2017.
3. Invited Lecture at IIT Kharagpur (IEEE AP-MTT student chapter), May 03, 2017.
4. Invited lecture on RF MEMS in Tunisia, March 2018.
5. Course instructor at Advanced School of Antennas, Lecture on “Antenna Array Synthesis”, KIIT Bhubaneswar, 22-26 June 2018.
6. Keynote Speaker at “Summer School on Antenna and Microwave Engineering (SUSAME) 2018”, sponsored by TEQIP III, NIT Silchar, 23-27 July 2018.
7. Invited lecture at Antenna Test and Measurement Society, Pune, 2018.

Session Chaired by Prof. Bhaskar Gupta

1. Chaired a Session in IMARC 2017.
2. Chaired a Session in IAW 2017.

Prof. Subir Kumar Sarkar

AI. IEEE Distinguished Lectures by Prof. Subir Kumar Sarkar

AI.1. Prof. Subir Kumar Sarkar delivered an IEEE Distinguished Lecture on “MOSFET Scaling: Basic Concepts and Approaches”, on 23rd February, 2018, in IEEE ED Mini Colloquium (MQ) organized by National Institute of Science & Technology (NIST), Berhampur, Orissa.

AI.2. Prof. Subir Kumar Sarkar delivered an IEEE Distinguished Lecture on “Searching New Possibilities of Nano MOSFET Structures”, on 28th July, 2017, in IEEE EDS Distinguished Lecture organized by Department of Electronics and Communication Engineering, Kalyani Government College, Kalyani, West Bengal

AI.3. Prof. Subir Kumar Sarkar delivered an IEEE Distinguished Lecture on “Tuning the Power Performance in Low Power VLSI Design”, on 26th April, 2017, in IEEE ED Mini Colloquium (MQ) cum National Seminar, organized by Department of Physics & Electronics, University of Jammu, J&K, India

AII. Keynote Speech Delivered by Prof. Subir Kumar Sarkar

(i) In India:

AII.1. Prof. Subir Kumar Sarkar delivered a Keynote speech on “The Energy Revolution in VLSI Design for Gigascale Integration”, in International Conference on Communication Devices and Networking (ICCDN) – 2017, SMIT, Majitar, Sikkim on 03rd June, 2017.

(ii) In Abroad:

AII.2. Prof. Subir Kumar Sarkar delivered a Keynote speech on “Watermarking Schemes for Protection Against Digital Piracy” in 3rd International Conference on Electrical Information and Communication Technology organized by Faculty of Electrical and Electronic Engineering, KUET, Khulna, Bangladesh, 07-09th December 2017

AIII. Invited Speech delivered by Prof. Subir Kumar Sarkar

(i) In India:

AIII.1. Prof. Subir Kumar Sarkar delivered an Invited speech as Honourable Speaker on “Future Challenges and Advanced Innovations in VLSI Design”, on 29th March, 2018, in Technical Talk Program organized by Department of Electronics and Communication Engineering in association with IEEE EDS Kolkata Chapter, Techno India Batanagar, Kolkata.

AIII.2. Prof. Subir Kumar Sarkar delivered an Invited speech as Resource person on “Low Power VLSI Design Challenges, Electronics for Medical Applications” in the Special Winter School (Electronics-Science, Engineering and Technology) organized by HRDC, University of Calcutta, on 16th March, 2018.

AIII.3. Prof. Subir Kumar Sarkar delivered an Invited speech on “Role of University – Industry collaboration for the development of the society” organized by Institute of Engineering and Management, Salt Lake, Kolkata on 06th February 2018

AIII.4. Prof. Subir Kumar Sarkar delivered an invited speech as plenary speaker on “VLSI and IC Layout Design”, in One Day National Workshop on Intellectual property Right for sensitizing and creating IP awareness among various Stakeholders, JIS College of engineering, Kalyani, 25th August, 2017

(ii) In Abroad :

AIII.5. Prof. Subir Kumar Sarkar delivered an Invited speech on “University-Industry Collaboration: Opportunities and Challenges” in workshop organized by Industry-Activity group of IEEE-Bangladesh Section (IEEE-BDS), 07-09th December 2017

AIV. Session Chaired by Prof. Subir Kumar Sarkar

(i) In India:

AIV.1. Prof. Subir Kumar Sarkar chaired the technical session on 03rd June, 2017, in International Conference on Communication Devices and Networking (ICCDN) – 2017, organized by Department of Electronics and Communication Engineering, SMIT, Majitar, Sikkim

AIV.2. Prof. Subir Kumar Sarkar chaired the technical session on 26th April, 2017, in IEEE ED Mini Colloquium (MQ) cum National Seminar, organized by Department of Physics & Electronics, University of Jammu, J&K, India

(ii) In Abroad:

AIV.3. Prof. Subir Kumar Sarkar chaired the technical session on “Circuits, Power Electronics and Drives” on 8th December 2017, in 3rd International Conference on Electrical Information and Communication Technology organized by Faculty of Electrical and Electronic Engineering, KUET, Khulna, Bangladesh, 07-09th December 2017

Prof. Sheli Sinha Chaudhuri

1. **Prof. Sheli Sinha Chaudhuri** Delivered a lecture in the FDP titled “Recent Development in Artificial Intelligence and Robotics”, in NIT Agartala, January 6, 2018

Dr. Sudipta Chattopadhyay

1. Delivered two lectures in “Special Winter School” on “Signals and Systems” organized by the Human Resource Development Centre/ASC, University of Calcutta, during February 26 – March 20, 2018, held at N.R Sen Hall/HRDC class room, Rajabazar Science Campus.

Dr. Sayan Chatterjee

Session Chaired by Dr. Sayan Chatterjee

1. **Dr. Sayan Chatterjee** Chaired a session “**Antennas and Telecommunication Systems**” on 29th November, 2017 in Mediterranean Microwave Symposium 2017 at Marseille, France
2. **Dr. Sayan Chatterjee** Chaired a session “**Technical Session -2**” on 2nd November, 2017 in IEEE Optronix 2017 at UEM, Kolkata, India.
3. **Dr. Sayan Chatterjee** Chaired a session “**Technical Session – A**” on 28th April, 2017 in IEEE IEMENTech-2017 at Science City Auditorium, Kolkata, India.

3. B. Seminar/Workshop/Conference/Symposium Attended:

Prof. Bhaskar Gupta

1. Attended in Mediterranean Microwave Symposium 2017 at Marseille, France from 27th – 30th November, 2017.
2. One day seminar on “Emerging Technology in Telecommunication”, Techno India, Batanagar, April 20, 2017.
3. One day national workshop on “Industry 4.0: Impact on Employment” sponsored by: IASC (Instrumentation Automation Surveillance Sector under Govt. of India), Adamas Institute of Technology, 13th April, 2017.
4. Advanced School of Antennas, Lecture on “Antenna Array Synthesis”, KIIT Bhubaneswar, 22-26 June 2018.
5. Keynote Speaker at “Summer School on Antenna and Microwave Engineering (SUSAME) 2018”, sponsored by TEQIP III, NIT Silchar, 23-27 July 2018.

Prof. Subir Kumar Sarkar

(i) In India:

1. **Prof. Subir Kumar Sarkar** attended as Honourable Speaker in Technical Talk Program organized by Department of Electronics and Communication Engineering in association with IEEE EDS Kolkata Chapter, Techno India Batanagar, Kolkata to deliver invited speech on “Future Challenges and Advanced Innovations in VLSI Design”, on 29th March, 2018.
2. **Prof. Subir Kumar Sarkar** attended as Resource person in the Special Winter School (Electronics-Science, Engineering and Technology) organized by HRDC, University of Calcutta, to deliver invited speech on “Low Power VLSI Design Challenges, Electronics for Medical Applications” on 16th March, 2018.
3. **Prof. Subir Kumar Sarkar** attended as plenary speaker in One Day National Workshop on Intellectual property Right for sensitizing and creating IP awareness among various Stakeholders, JIS College of engineering, Kalyani to deliver lecture on “VLSI and IC Layout Design”, , 25th August, 2017
4. **Prof. Subir Kumar Sarkar** attended as a Keynote speaker in International Conference on Communication Devices and Networking (ICCDN) – 2017, SMIT, Majitar, Sikkim to deliver keynote speech on “The Energy Revolution in VLSI Design for Gigascale Integration”, on 03rd June, 2017.
5. **Prof. Subir Kumar Sarkar** attended as Chairperson of the technical session in International Conference on Communication Devices and Networking (ICCDN) – 2017, organized by Department of Electronics and Communication Engineering, SMIT, Majitar, Sikkim on 03rd June, 2017
6. **Prof. Subir Kumar Sarkar** attended as Chairperson of the technical session in IEEE ED Mini Colloquium (MQ) cum National Seminar, organized by Department of Physics & Electronics, University of Jammu, J&K , India, on 26th April, 2017,

(ii) In Abroad:

1. **Prof. Subir Kumar Sarkar** attended as a Keynote speaker on “Watermarking Schemes for Protection Against Digital Piracy” and chaired the technical session on “Circuits, Power Electronics and Drives” in 3rd International Conference on Electrical Information and Communication Technology organized by Faculty of Electrical and Electronic Engineering, Khulna University of Engineering and Technology (KUET), Khulna, Bangladesh, 07-09th December 2017.
2. **Prof. Subir Kumar Sarkar** attended as invited speaker on “University-Industry Collaboration: Opportunities and Challenges” in workshop organized by Industry-Activity group of IEEE-Bangladesh Section (IEEE-BDS), 07-09th December 2017

Dr. Sudipta Chattopadhyay

1. Participated Workshop on “Initiatives in Outcome Based Education and NBA Accrediation” organized by Jadavpur University under TEQIP Phase-II Program on March 06 – 08, 2017.

Dr. Sayan Chatterjee

1. **Dr. Sayan Chatterjee** attended Workshop on Start-up activities and preparation of action plan orientation session Organized by NPIU and AICTE for TEQIP –III, Zone – West and Central on 8th and 9th January 2018 at MNIT Jaipur.
2. **Dr. Sayan Chatterjee** participated in International Engineering Sourcing Show (IESS VII), organized by EEPC India from 08th to 10th March 2017 at Chennai Trade Centre, Chennai, India. under the aegis of Ministry of Commerce & Industry, Government of India.

3. **Dr. Sayan Chatterjee** attended in Mediterranean Microwave Symposium 2017 at Marseille, France from 27th – 30th November, 2017.
4. **Dr. Sayan Chatterjee** attended 3rd ZoPP Workshop under SMDP-C2SD Programme at IIT Guwahati on 27-28 October, 2017

3. C. Seminar/Workshop/Conference/Symposium Organized:

Prof. Bhaskar Gupta

1. **Prof. Bhaskar Gupta** Organized “Young Scientist Colloquium” in association with The Institution of Engineers (India), West Bengal State Centre ET Division, at Department of ETCE, Jadavpur University on September 20, 2017.

Prof. Subir Kumar Sarkar

1. **Prof. Subir Kumar Sarkar** was a member of the organizing committee being one of the editors of the Proceedings of International Conference on Communication, Devices and Networking (ICCDN 2017), 3rd-4th June, 2017, Sikkim.

Dr. Sudipta Chattopadhyay

1. Organized “IEEE International 5G Summit and 28th GISFI Standardization Series Meeting (GSSM)” as Academic Co-ordinator during March 17 – 18, 2017.
2. Organized the one-day workshop on “Fun of Circuit Building”, held at CAS Building, Dept. of Radio Physics and Electronics, University of Calcutta on April 01, 2017, as Chairperson of IEEE Women in Engineering, Kolkata Section.
3. Organized one-day workshop on “MATLAB: Concepts to Applications”, held at DSP lab, Dept. of ETCE, Jadavpur University, on July 19, 2017, as Chairperson of IEEE Women in Engineering, Kolkata Section.
4. Organized two-day workshop on “FPGA for Digital Circuits and Systems Design” held at VLSI Lab, Dept. of Radio Physics and Electronics, University of Calcutta, on November 16 – 17, 2017 April 01, 2017, as Chairperson of IEEE Women in Engineering, Kolkata Section.
5. Organized one-day workshop on “Application of MATLAB in Signal Processing”, held at DSP lab, Dept. of ETCE, Jadavpur University, on April 06, 2018, as Chairperson of IEEE Women in Engineering, Kolkata Section.

Dr. Sayan Chatterjee

1. **Dr. Sayan Chatterjee** organized as Financial Co-chair of IEEE CALCON 2017 at Kolkata, India, 2-3rd December, 2017
2. **Dr. Sayan Chatterjee** organized DAAD Falling Walls Lab Info seminar on 19th January, 2018 at TEQIP building, Jadavpur University

3. D. Orientation Courses/ Refresher Courses Attended:

Prof. Bhaskar Gupta

1. Advanced School of Antennas, Lecture on “Antenna Array Synthesis”, KIIT Bhubaneswar, 22-26 June 2018.
2. “Summer School on Antenna and Microwave Engineering (SUSAME) 2018”, sponsored by TEQIP III, NIT Silchar, 23-27 July 2018.

4. A. Books/Monographs etc. Published :

Book Chapter :

Prof. Subir Kumar Sarkar

1. Tapas Chakrabarti, Malay Saha, AmbarKhanda and **Subir Kumar Sarkar**, “ Modeling of Lead Free CH₃NH₃SnI₃ based Perovskite Solar Cell using ZnO as ETL” International Conference on Communication, Devices and Networking (**ICCDN-2017**), Sikkim Manipal Institute of Technology (SMIT) Sikkim, India, June 3rd-4th , 2017. Published as book chapter in **Advances in Communication, Devices and Networking in Lecture Notes in Electrical Engineering**, pp-125-131, Vol.462, ISBN 978-981-10-7901-6
2. Pritha Banerjee, AnupSarkar, Dinesh Kumar Dash and **Subir Kumar Sarkar**, “Performance Analysis of High-K Dual Material Tri-gate SON MOSFET”, International Conference on Communication Devices and Networking (**ICCDN**) 2017, Sikkim Manipal Institute of Technology, Majhitar, Sikkim, 3-4th June, 2017. Published as book chapter in **Advances in Communication, Devices and Networking in Lecture Notes in Electrical Engineering**, pp-69-77, Vol.462, ISBN 978-981-10-7901-6
3. Priyanka Saha, Saheli Sarkhel, Dinesh Kumar Dash, SuvamSenapati and **Subir Kumar Sarkar** , “Analytical Modeling and Simulation of Triple Metal Front Gate Stack DG- MOSFET with Graded channel (GC-TMDG MOSFET)”, International Conference on Communication Devices and Networking (ICCDN) 2017, Sikkim Manipal Institute of Technology, Majhitar, Sikkim, 3-4th June, 2017(**Best Paper Awarded**). Published as book chapter in **Advances in Communication, Devices and Networking in Lecture Notes in Electrical Engineering**, pp-97-105, Vol.462, ISBN 978-981-10-7901-6
4. Sreeparna Barua, Anup Dey, Subhashis Roy and **Subir Kumar Sarkar** ,”Comparatively Study on n-ZnO/SiO₂/p-Si and Pd/n-ZnO/SiO₂/p-Si thin film based H₂ sensor fabricated by Sol-gel process” International Conference on Communication Devices and Networking (**ICCDN**), 3-4th June, 2017. Published as book chapter in **Advances in Communication, Devices and Networking in Lecture Notes in Electrical Engineering**, pp-79-85, Vol. 462, ISBN 978-981-10-7901-6
5. Esita Mitra, Dinesh Kumar Dash and **Subir Kumar Sarkar** ,”A 3D Analytical Modelling Of Dual-Metal Tri-Gate Silicon-On- Nothing Tunneling Field Effect Transistor”,International Conference on Communication Devices and Networking (**ICCDN**) 2017, Sikkim Manipal Institute of Technology, Majhitar, Sikkim, 3-4th June, 2017. Published as book chapter in **Advances in Communication, Devices and Networking in Lecture Notes in Electrical Engineering**, pp-115-123, Vol.462, ISBN 978-981-10-7901-6

Dr. Sudipta Chattopadhyay

1. Subhabrata Banerjee, **Sudipta Chattopadhyay**, “A Novel Modified ant Lion Optimizer Algorithm: Extension to Proposed 4D-TC”, Chapter 6, Swarm Intelligence Volume Innovation, New Algorithms and Methods, 2018, IET, ISBN 978-1-78651-629-7, 2018.

Dr. Sayan Chatterjee

1. Das. T. K., **Chatterjee. S.**, “Phase Velocity Compensation in Compact Coupled-Line Bandpass Filter with Square Corrugations,” Book chapter of social Transformation –**A Digital Way in Communications in Computer and Information Science**, Springer Nature, Singapore Pte. Ltd. 2018, CCIS 836, pp. 29–41, January 2018.
2. Moumita Das, PosibaMostafa, Antardipan Pal, **SayanChatterjee**, “ Design of an Energy Efficient, Low Phase Noise Current Starved VCO Using Pseudo-NMOS Logic” International Conference on

Communication, Devices and Networking (**ICCDN-2017**), Sikkim Manipal Institute of Technology (SMIT) Sikkim, India, June 3rd-4th, 2017. Published as book chapter in **Advances in Communication, Devices and Networking in Lecture Notes in Electrical Engineering**, pp-35-42, Vol.462, ISBN 978-981-10-7901-6

4. B. Articles Published in Journals:

Journal

Prof. Bhaskar Gupta

1. **“Approximate Theoretical Investigations on Isosceles Triangular Dielectric Resonator Antennas and Experimental Validation,”** by S. Maity and B. Gupta, in IEEE Transactions on Antennas and Propagation, vol. 66, no. 5, pp. 2640-2643, May 2018.
2. **“Truncated Patch Antenna on Jute Textile for Wireless Power Transmission at 2.45 GHz”**, by Zeouga, K., Osman, L., Gharsallah, A. and Gupta, B, in *International Journal Of Advanced Computer Science And Applications, Volume9(1)*, pp.301-305, 2018
3. **“Transmission Line Model For Analysis Of Microstrip Travelling Wave Antennas With Right Angled Bends”**, by K Patra, S Dhar and B Gupta, International Journal of Electronics and Communications (AEÜ), vol. 87, Pp. 375-386, Feb. 2018.
4. **“Resonant Frequency of 30°–60°–90° Triangular Dielectric Resonator at Fundamental Mode,”** by SudiptaMaity and Bhaskar Gupta, accepted for publication at *AEÜ International Journal of Electronics and Communications*, vol. 83, Pp. 451-461, Jan. 2018.
5. **“Reconfigurable dielectric resonator antenna with multiple polarisation states,”** by S. Dhar, K. Patra, R. Ghatak, B. Gupta and D. R. Poddar, in IET Microwaves, Antennas & Propagation, vol. 12, no. 6, pp. 895-902, 23 5 2018.
6. **“Accurate Formula to Determine Resonant Frequency of Double Sided Printed Dipole Antenna”**, R. P. Ghosh, K Patra, B Gupta and S K Chowdhury, in IETE Journal of Research, vol. 64, No. 3, Pp. 331-336, Aug. 2017.
7. **“Analysis of Arbitrarily Curved Microstrip Lines for Radiated Emission”**, Kaushik Patra, Sayantan Dhar and Bhaskar Gupta, in IEEE Transaction on Electromagnetic Compatibility, vol. 60, No. 3, Pp 572-579, June 2018.
8. **“Radiation Characteristics of an Isosceles 45°-45°-90° Triangular Microstrip Antenna,”** by SudiptaMaity and Bhaskar Gupta, in IETE Journal of Research, vol. 64, no. 1, pp. 139-148, 2018.
9. **“Analysis of Horizontally Inhomogeneous Rectangular Dielectric Resonator Antenna,”** by SudiptaMaity and Bhaskar Gupta, accepted for publication to International Journal of Electronics and Communications (AEÜ) on 4th April, 2017
10. **“Utility of RF MEMS miniature switched capacitors in phase shifting applications”** by Amrita Chakraborty and Bhaskar Gupta, International Journal of Electronics and Communications (AEÜ), Vol. 75, May 2017, Pp. 98-107 (Published online).

Prof. Subir Kumar Sarkar

1. Priyanka Saha, Pritha Banerjee and **Subir Kumar Sarkar**, “2D modeling based comprehensive analysis of short channel effects in DMG strained VSTB FET”, **Superlattices and Microstructures, Elsevier**, doi.10.1016/j.spmi.2018.03.070, vol. 118, pp-16-28, March 2018
2. Pritha Banerjee, Priyanka Saha and **Subir Kumar Sarkar**, “Analytical Modelling and Performance Analysis of Gate Engineered Tri-gate SON MOSFET”, **IET Circuits, Devices & Systems**, DOI: 10.1049/iet-cds.2017.0473, March 2018
3. Pritha Banerjee and **Subir Kumar Sarkar**, “Comprehensive analysis of subthreshold short channel behavior of a Dual-material gate strained Trapezoidal FinFET”, **Superlattices and Microstructures, Elsevier**, doi.org/10.1016/j.spmi.2018.02.034, February 2018

4. AnupDey, Subhashis Roy and **Subir Kumar Sarkar**, “Synthesis, Fabrication and Characterization of ZnO-Based Thin Films Prepared by Sol–Gel Process and H₂ Gas Sensing Performance”, **Journal of Materials Engineering and Performance (JMEP)**, Springer, <https://doi.org/10.1007/s11665-018-3284-z>, March 2018
5. PriyankaSaha, Pritha Banerjee, Dinesh Kumar Dash and **Subir Kumar Sarkar**, “Exploring the short channel characteristics of Asymmetric Junctionless Double Gate Silicon On Nothing MOSFET”, **Journal of Materials Engineering and Performance**, Springer, DOI: 10.1007/s11665-018-3281-2, March 2018.
6. AmanMahajan ,Dinesh Kumar Dash, Pritha Banerjee and **Subir Kumar Sarkar** ,”Analytical Modeling of Triple Metal Hetero Dielectric DG SON TFET”, **Journal of Materials Engineering and Performance**, Springer, vol:27, Issue 3, February 2018.
7. TriptyKumari, PriyankaSaha, Dinesh Kumar Dash and **Subir Kumar Sarkar**, “ Modeling of Dual Gate Material Hetero-dielectric Strained PNP TFET for Improved ON Current”, **Journal of Materials Engineering and Performance**, Springer, vol:27, Issue 3, January 2018.
8. Pritha Banerjee, TriptyKumari and **Subir Kumar Sarkar**, “2-D modeling and analysis of short-channel behavior of a front high-K gate stack triple-material gate SB SON MOSFET”,**Applied Physics A**, Springer, <https://doi.org/10.1007/s00339-018-1567-8>, January, 2018
9. PriyankaSaha, SaheliSarkhel and **Subir Kumar Sarkar**,” Compact 3D Modeling and Performance Analysis of Dual Material Tri-Gate Tunnel Field Effect Transistor”, DOI :10.1080/02564602.2018.1428503, **IETE Technical Review** , Taylor & Francis, January 2018
10. SubhrapratimNath, Avik Kumar Chakravarty and **Subir Kumar Sarkar** ,”Metaheuristic based Simultaneous Routing and Buffer Insertion Algorithm for VLSI Interconnect Delay Optimization”,**Journal of Electronic Science and Technology**, January 2018
11. SubhrapratimNath and **Subir Kumar Sarkar**, “Metaheuristics based routing optimisation, balanced workload distribution and security strategy in IoT environment” **Int. Journal of Advanced Intelligence Paradigms**, Inderscience, January 2018
12. PriyankaSaha, TriptyKumari&**Subir Kumar Sarkar**, “Analytical Modelling and Performance Analysis of Dielectric Pocket-Induced Double-Gate Tunnel Field-Effect Transistor”, **IETE Technical Review**, Taylor & Francis , DOI: 10.1080/02564602.2017.1381049, December 2017
13. Dinesh Kumar Dash, PriyankaSaha and **Subir Kumar Sarkar**, “Analytical modeling of asymmetric hetero-dielectric engineered dual-material DG-TFET”, in **Journal of Computational Electronics**, Springer, DOI 10.1007/s10825-017-1102-8 , November 2017
14. Pritha Banerjee, PriyankaSaha and **Subir Kumar Sarkar**,”Two dimensional analytical modeling of a high-K gate stack triple-material double gate strained silicon-on-nothing MOSFET with a vertical Gaussian doping”, in **Journal of Computational Electronics**, Springer, DOI 10.1007/s10825-017-1089-1, November 2017
15. Pritha Banerjee, AnupSarkar and **Subir Kumar Sarkar**,”Exploring the short channel characteristics and performance analysis of DMDG SON MOSFET”, **Microelectronics Journal**, Elsevier, Volume 67, , Pages 50-56, September 2017
16. AnupDey, BijoyKantha and **Subir Kumar Sarkar**, “Sol–gel grown Pd modified WO₃ thin film based methanol sensor and the effect of annealing temperatures”, **Microsystem Technology**, Springer, Volume 23, number 9, pp-4195-4201, September-2017.
17. SomnathMaiti, ManasRanjanNayak and **Subir Kumar Sarkar**,”Modified Least Significant Bit(LSB) Matching Technique for Robust Information Hiding”,**Journal of Emerging Technologies and Innovative Research**, Volume 4, Issue 09, pp-193-200, September 2017

18. Ranita Saha, Saheli Sarkhel and **Subir Kumar Sarkar**, "Analytical Modeling and Performance Characterization of a Double Gate MOSFET with Dielectric Pockets Incorporating Work Function Engineered Binary Metal Alloy Gate Electrode for Subdued SCEs", **IETE Technical Review**, pp-1-8, doi.org/10.1080/02564602.2017.1339576, August 2017,
19. Saheli Sarkhel, Navjeet Bagga and **Subir Kumar Sarkar**, "A compact analytical model of binary metal alloy silicon-on-nothing (BMASON) tunnel FET with interface trapped charges", in **Journal of Computational Electronics**, Springer, DOI 10.1007/s10825-017-1030-7, July 2017
20. Priyanka Saha, Saheli Sarkhel and **Subir Kumar Sarkar**, "Compact 2D threshold voltage modeling and performance analysis of ternary metal alloy work-function-engineered double-gate MOSFET", in **Journal of Computational Electronics**, Springer, Vol.16.No.3, pp-648-657, June 2017
21. Pritha Banerjee and **Subir Kumar Sarkar**, "3-D analytical modeling of high-k gate stack dual-material tri-gate strained silicon-on-nothing MOSFET with dual-material bottom gate for suppressing short channel effects", in **Journal of Computational Electronics**, Springer, Vol.16.No.3, pp-631-639, May 2017
22. Subhashis Roy, Anup Dey, Bikram Biswas and **Subir Kumar Sarkar**, "Investigation of Pt and Pd modified WO₃ and ZnO based Thin Film Sensors for Ethanol Sensing" **Journal of Materials Engineering and Performance**, Springer, vol:27, Issue 3, 2017.
23. Subhashis Roy, Anup Dey, Bikram Biswas, and **Subir Kumar Sarkar**, "Analytical Modeling of Voltage to Time Conversion Circuit for Gas Sensing System and Some Experimental Studies", **Journal of Nanoelectronics and Optoelectronics**, Vol. 12, pp. 1–8, 2017.
24. Khomdram Jolson Singh, Th. Jayenta Singh, Dhanu Ch., and **Subir Kumar Sarkar**, "A thin layer of Carbon Nano Tube (CNT) as semi-transparent charge collector that improve the performance of the GaAs Solar Cell", **Optik, ELSEVIER**, Vol.135, pp-256-270, April 2017
25. Khomdram Jolson Singh, Dhanu Chettri, Th. Jayenta Singh, and **Subir Kumar Sarkar**, "Heterogeneous Carbon Nano-Tube window layer with higher sheet resistance improve the solar cell performance" (ICEPOE 2017) at Thammasat University, Bangkok, Thailand, April 21-23, 2017, **IOP Series: Materials Science and Engineering** vol.211, doi:10.1088/1757-899X/211/1/012023, April 2017
26. Khomdram Jolson Singh, Dhanu Chettri, Th. Jayenta Singh, and **Subir Kumar Sarkar**, "A Performance Optimization and Analysis of Graphene based Schottky Barrier GaAs Solar Cell" (ICEPOE 2017) at Thammasat University, Bangkok, Thailand, April 21-23, 2017, **IOP Series: Materials Science and Engineering**, vol.211, doi:10.1088/1757-899X/211/1/012024, April 2017

Prof. Sheli Sinha Chaudhuri

1. Swati Chowdhuri, Pranab Banerjee and **Sheli Sinha Chaudhuri**, "Relay Node Selection Algorithm Consuming Minimum Power of MIMO Integrated MANET", *Advances in Computational Design*, Techno Press, 2018, August, vol.3(2), pp.191-200.

Dr. Sudipta Chattopadhyay

1. Abhijit Chandra and **Sudipta Chattopadhyay**, "Novel Minimum Index Floating Point Representation for the Design of Powers-of-two Filter", *International Journal of Electronics Letters*, Taylor & Francis, vol. 5, no. 1, pp. 69-81, 2017.
2. Subhabrata Banerjee and **Sudipta Chattopadhyay**, "Evaluation of System Performance by Adding a Fourth Dimension to Turbo Code", *International Journal of Communication Systems*, Wiley, vol. 31, no. 2, 2018.
3. Prabhat Kumar Panda, **Sudipta Chattopadhyay**, "A Modified PKM Environment for the Security Enhancement of IEEE 102.16E", *Computer Standards and Interfaces*, Elsevier, volume 61, pp. 107-120, 2018.

Dr. Sayan Chatterjee

1. Sourav Das Chowdhury, Atasi Pal, SayanChatterjee, RanjanSen and Mrinmay Pal, “**Diverse mode of operation of an ANDi mode-locked fiber laser employing two nonlinear loop mirrors**”, *Applied Optics*, Vol 57, No 5, pp no 1225-1230, 2018
2. SoumyoChatterjee, SayanChatterjee, Arijitmajumdar, “**Edge Element Controlled Null Steering in Beam Steered Planar Array**” *IEEE Antennas and Wireless Propagation Letters*, Vol16, pp no 2521-2524, 2017.
3. Sourav Das Chowdhury, Atasi pal, Debasis pal, SayanChatterjee, Mukul C. Paul, RanjanSen, Mrinmay pal “**High repetition rate gain-switched 1.94 μ m fiber laser pumped by 1.56 μ m dissipative soliton resonance fiber laser**” *Optics Letters*, Vol 42, No.13/ July 1, 2017, pp no. 2471-2474, Optical Society (OSA) Publications.
4. A Majumder, S Chatterjee, S Chatterjee, SS Chaudhari, DR Poddar, “**Optimization of Small-Signal Model of GaN HEMT by Using Evolutionary Algorithms**”, *IEEE Microwave and Wireless Components Letters*, pp. 362 – 364, Volume: 27, Issue: 4, April 2017.

Dr. Chandrima Mondal

1. **Chandrima Mondal**, AbhijitBiswas, “**Performance Analysis of NanoscaleGeSn MOSFETs for Mixed-Mode Circuit Applications**” *Materials Science in Semiconductor Processing*, Elsevier, vol. 66, pp. 109–116 April 2017
2. Jayanti Paul, **Chandrima Mondal**, and AbhijitBiswas, “Studies of buried oxide properties on nanoscaleGeOI_pMOSFETs for designof a high performance common source amplifier

Conference :

Prof. Bhaskar Gupta

1. Biswas. M., Patra. K., Chatterjee. S. and Gupta. B., “**Slotted Half Hexagonal Patch Antenna for Compact Multiband Operation**,” Proceedings of 17th Mediterranean Microwave Symposium (MMS), 27th to 30th November 2017, Marseille, France.
2. Chatterjee. S., Das. T. K., Gupta. B., “**Harmonic Suppression in In-line Parallel-Coupled MicrostripBandpass Filter by Minkowski Fractals**,” Proceedings of 17th Mediterranean Microwave Symposium (MMS), 27th to 30th November 2017, Marseille, France.
3. Banerjee. A., Chatterjee. S., Gupta. B. and Bandyopadhyay. A. K. “**Theoretical Investigation on Input Characteristics of CPW-Fed Wide Rectangular Monopole Structures**”, *IEEE International Conference on Antenna Innovations & Modern Technologies for Ground, Aircraft and Satellite Applications (iAIM)*, Bangalore, November, 2017,
4. Banerjee. A., Chatterjee. S., Gupta. B. and Bandyopadhyay. A. K., “**Theoretical investigation on input characteristics of CPW fed wide rectangular monopole structures**,” in *IEEE iAIM 2017*, Bangalore.
5. Bhattacharyya. A. and Gupta. B. “**Investigations on effects of finite ground plane on slot antennas using characteristic modes**,” 2017 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, San Diego, CA, 2017, pp. 169-170.

Prof. Subir Kumar Sarkar

1. PriyankaSaha, SaheliSarkhel, Pritha Banerjee and **Subir Kumar Sarkar**, “**3D Modeling based performance analysis of Gate Engineered Trigate SON TFET with SiO₂/HfO₂ stacked gate oxide**” in *IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)*, organized by IEEE Bangalore Section at MSR Hotel and Spa, Bangalore on 16-17th , March 2018
2. SubhrapratimNath, Pinaki Prasad GuhaNeogi, JamunaKanta Sing and **Subir Kumar Sarkar**, “**VLSI Routing Optimization based on modified Constricted PSO with Iterative RLC Delay model**”

- IEEE International Conference on Current Trends towards Converging Technologies, Coimbatore, India. March 1-3, 2018
3. Bikram Biswas, Sutanni Bhowmick, Mandira Biswas, Anup Dey, Subhashis Roy and **Subir Kumar Sarkar**, “**Simulation of Capacitive Multilayered Bio-Sensor for Sensing Biomolecules**”, in International Conference On Electrical, Electronics, Computers, Communication, Mechanical And Computing (**EECCMC- 2018**) at Priyadarshini Engineering College, Chettiyappanur, Vaniyambadi - 635751, Vellore District, Tamil Nadu, India on 28-29th January, 2018
 4. Dinesh Kumar Dash, Priyanka Saha and **Subir Kumar Sarkar**, “**3-D Analytical Modeling of Dual-Metal Front-Gate Stack Tri-Gate SON-TFET with Graded Channel Engineering**”, IEEE Calcutta Conference, **CALCON 2017**, Lalit Great Eastern, Dalhousie Square, Kolkata-69, 2-3rd, December 2017
 5. Pritha Banerjee, Priyanka Saha and **Subir Kumar Sarkar**, “**3-D Analytical Modeling and comprehensive analysis of SCEs of a high-K gate stack dual-material tri-gate Silicon-On-Insulator MOSFET with dual-material bottom gate**”, IEEE Calcutta Conference, **CALCON 2017**, Lalit Great Eastern, Dalhousie Square, Kolkata-69, 2-3rd, Dec 2017
 6. Arpita Ghosh and **Subir Kumar Sarkar**, “**Five Input Majority Gate Design with Single Electron Nano Device**”, International Conference on Communication, Devices and Computing, **ICCDC2017** Haldia, November 2-3, 2017
 7. Bikram Biswas, Sutanni Bhowmick, Mandira Biswas, Anup Dey, Subhashis Roy and **Subir Kumar Sarkar**, “**Simulation of Capacitive Multilayered Bio-Sensor for Sensing Biomolecules**” in IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (**EECCMC**), 2017
 8. Tapas Chakrabarti, Ambar Khanda, Akash Jana and **Subir Kumar Sarkar**, “**Modelling of ZnO based HIT solar cells with Comparative analysis**”, IEEE International Conference on Power, Control, Signals & Instrumentation Engineering (**ICPCSI-2017**), Saveetha Engineering College, Thandalam, Chennai, 21-22 September, 2017
 9. Tapas Chakrabarti, Malay Saha, Ambar Khanda and **Subir Kumar Sarkar**, “**HIT Solar cell using ZnTe as an emitter layer**”, IEEE International Conference on Smart Grids, Power and Advanced Control Engineering (**ICSPACE-2017**), Global Academy of Technology, 17-19 August, 2017. (**Best Paper Awarded**)
 10. Rudrarup Sengupta, Tapas Chakrabarti and **Subir Kumar Sarkar**, “**Analytical Modelling, Simulation, and Comparative Study of Compound Alloy based Tandem Solar Cells – An Efficient Way of Renewable Energy Management**”, International Conference on Smart Grids Power and Advanced Control Engineering (**IEEE-ICSPACE-2017**), Global Academy of Technology, Bengaluru, India, 17th -19th August 2017.

Prof. Sheli Sinha Chaudhuri

1. Sriparna Banerjee and **Sheli Sinha Chaudhuri**, “**A Review on various Speckle Filters used for despeckling SAR images**”, 2nd IEEE International Conference on Computing Methodologies and Communication, Coimbatore, 2018, February, 15-16.
2. Sriparna Banerjee and **Sheli Sinha Chaudhuri**, “**Log sigmoid function based patch independent image haze removal method**”, 8th IEEE International Conference on Computer Communication and Informatics, Coimbatore, 2018, January 4-6.
3. Sriparna Banerjee, Sangita Roy, **Sheli Sinha Chaudhuri**, “**Fuzzy Logic Based Vision Enhancement Using Log Sigmoid Function**”, 2017, IEEE CALCON, Kolkata, December 2-3

4. *Sriparna Banerjee, Sangita Roy, Sheli Sinha Chaudhuri*, “**Effect of patch size and haziness factor on visibility using DCP**”, *IEEE 2nd International Conference for Convergence in Technology (I2CT)*, 2017, Pune, India, April 7-9.
5. *Kyamelia Roy, Saurav Kumar, Soumen Banerjee, Tishya Sarma Sarkar, Sheli Sinha Chaudhuri*, “**Dehazing technique for natural scene image based on color analysis and restoration with road edge detection**”, *1st IEEE International Conference on Electronics, Materials, Engineering and Nano-Technology (IEMENTech)*, Kolkata, 2017, April 28-29.

Dr. Sudipta Chattopadhyay

1. Utpal Kumar Paul, **Sudipta Chattopadhyay**, Prabhat K Panda and Subhabrata Banerjee “**A Java® Platform Tool for Visualizing and Testing of Routing Algorithms for Wireless Sensor Network**”, Presented at IEEE IESC 2017 conference, NIT Meghalaya, April 6 – 7, 2017, pp. 195 – 200.
2. P. K. Panda and S. **Chattopadhyay** “**A Hybrid Security Algorithm for RSA Cryptosystem**”, IEEE International Conference on Advanced Computing and Communication Systems, Jan. 06 – 07, 2017, Coimbatore, INDIA.

Dr. Sayan Chatterjee

1. Debnath.P, Chatterjee.S, “**Ridge Gap Waveguide Transition using Coaxial Probe**”, Proceeding of 6th International Conference on Computing, Communication and Sensor Network(CCSN), Dec 2017, vol.1.
2. Das. T. K., Chatterjee. S., “**Harmonic Suppression in an In-line Chebyshev Bandpass Filter by Asymmetrical Perturbations**,” Proceedings of IEEE MTT-S International Conference IMaRC, December 2017, Ahmedabad, India.
3. **Chatterjee. S.**, Das. T. K., Gupta. B., “**Harmonic Suppression in In-line Parallel-Coupled Microstrip Bandpass Filter by Minkowski Fractals**,” Proceedings of 17th Mediterranean Microwave Symposium (MMS), 27th to 30th November 2017, Marseille, France.
4. Sourav Das Chowdhury, Atasi Pal, Debasis Pal, **Sayan Chatterjee**, Ranjan Sen and Mrinmay Pal, “**Sub 100 ns Tm Gain-switched Fiber Laser Pumped by Rectangular Pulse Er:Yb Fiber Laser and its Effect on Tissue Ablation**” *IEEE Workshop on recent Advances on Photonics, WRAP 2017*, Dec 18-19, Mahindra Ecole Centrale, Hyderabad
5. Amartya Banerjee, **Sayan Chatterjee**, Bhaskar Gupta, Anup Kumar Bandyopadhyay, “**Theoretical Investigation on Input Characteristics of CPW-Fed Wide Rectangular Monopole Structures**”, *IEEE International Conference on Antenna Innovations & Modern Technologies for Ground, Aircraft and Satellite Applications (iAIM)*, Bangalore, November, 2017,
6. P. Debnath and S. **Chatterjee**, “**Substrate integrated waveguide antennas and arrays**,” *Proceedings of 1st IEEE International Conference on Electronics, Material Engineering and Nano Technology, IEMENTech 2017*, Kolkata, Apr 2017, pp. 1-6, ISBN: 978-1-5386-1703-8
7. Archan Jash, Amartya Banerjee and **Sayan Chatterjee**, “**CPW-Fed Small UWB Monopole Antenna for Energy-Harvesting Applications**”, Proceedings of *1st IEEE International Conference on Electronics, Material Engineering and Nano Technology IEMENTech 2017*, Kolkata, 2017, DOI: 978-1-5386-1703-8/17/\$31.00 ©2017 IEEE.
8. Antardipan Pal, Posiba Mostafa, Moumita Das, **Sayan Chatterjee**, “**Low power high speed Frequency Divider for Frequency Synthesizers in 180nm CMOS Technology**”, *Proceedings of 1st IEEE International Conference on Electronics, Material Engineering and Nano Technology, IEMENTech 2017*, 28-29 April 2017, pp.1-4,.

5. Collaborative Programmes:

Prof. Subir Kumar Sarkar

1. **Prof. Subir Kumar Sarkar** has collaborative research activities in the field of Spintronics with Prof. Supriyo Bandyopadhyay of Virginia Commonwealth University, USA.
2. **Prof. Subir Kumar Sarkar** is presently continuing collaborative research activities in nanodevices with Dr. Partha Bhattacharya of **Indian Institute of Engineering Science and Technology, Shibpur (former BESU)**.
3. **Prof. Subir Kumar Sarkar** is presently continuing collaborative research work with Dr. Ashish Kumar De and Prof. B. Maji of **National Institute of Technology, Durgapur**.
4. **Prof. Subir Kumar Sarkar** is presently continuing collaborative research activities with Mr. Pranab Kishore Dutta and Mr. Swanirbhar Majumder of **North Eastern Regional Institute of Science and Technology (NERIST)**.
5. **Prof. Subir Kumar Sarkar** is presently continuing collaborative research activities with Dr. N. B. Singh of **Manipur Institute of Technology**.

6. Major Achievements:

Prof. Bhaskar Gupta

1. **Lifetime Achievement Award** by Institution of Engineers (India), West Bengal, ET Division on Engineers day, 15th Sept. 2017.

Prof. Subir Kumar Sarkar

1. **Prof. Subir Kumar Sarkar** has been selected as **IEEE Electron Device Society Distinguished Lecturer (Region 10)**.
2. A Certificate of Appreciation has been awarded to **Prof. Subir Kumar Sarkar** for serving as a Reviewer in **Journal of Nanophotonics** during the year 2017.
3. **Prof. Subir Kumar Sarkar** was honoured as **Chief Guest** in IEEE ED Mini Colloquium (MQ) cum National Seminar, organized by Department of Physics & Electronics, University of Jammu, J&K, India on 26th April, 2017.
4. **Prof. Subir Kumar Sarkar** has been invited as a **Member of the Technical Program Committee** in 2017 in 3rd International Conference on Electrical Information and Communication Technology organized by Faculty of Electrical and Electronic Engineering, KUET, Khulna, Bangladesh, 07-09th December 2017.
5. **Prof. Subir Kumar Sarkar** has been invited as a **Member of the Technical Program Committee** in 2017 in International Conference On Communication Devices and Networking (ICCDN) 2017, Sikkim Manipal Institute of Technology, Sikkim on 3-4th June, 2017.
6. **Prof. Subir Kumar Sarkar** has been invited several times as one of the expert members in various National Level Accreditation Board.

7. Best Paper Awards :

- Tapas Chakrabarti, PhD scholar under the supervision of **Prof. Subir Kumar Sarkar**, has been awarded **Best Paper Award** for the paper entitled “HIT Solar cell using ZnTe as an emitter layer”, in IEEE International Conference on Smart Grids, Power and Advanced Control Engineering (**ICSPACE-2017**), Global Academy of Technology, 17-19 August, 2017.”
- Priyanka Saha, PhD scholar under the supervision of **Prof. Subir Kumar Sarkar**, has been awarded **Best Paper Award** for the paper entitled, “Analytical Modeling and Simulation of Triple Metal

Annual Report 2017-18

Front Gate Stack DG- MOSFET with Graded channel (GC-TMDG MOSFET)” in International Conference on Communication Devices and Networking (ICCDN) 2017, Sikkim Manipal Institute of Technology, Majhitar, Sikkim, 3-4th June, 2017

8. One Research Scholar has been awarded PhD and four Research Scholars have submitted PhD theses under the guidance of **Prof. Subir Kumar Sarkar** in the duration 2017-2018 with the following details:
 - I. **Dr. Pranab Kishore Dutta with thesis title “Performance Improvement for Future Nanodevices and Explore some of the applications” has been awarded PhD in the year 2017.**
 - II. **Shri. Somnath Maiti with thesis title “Some studies on embedded systems in real time multimedia communication and control applications” has submitted PhD thesis in the year 2018.**
 - III. Mrs. Moutushi Singh with thesis title “**Some studies on Computer Networking and Data Security**” has submitted PhD thesis in the year 2018.
 - IV. **Shri. Khomdram Jolson Singh with thesis title “Modeling Approach and Simulation of High Performance and Cost Efficient Solar Cell” has submitted PhD thesis in the year 2018.**
 - V. Sri. Kousik Naskar with thesis title “**To Study Power Efficient Low Dimensional Devices and VLSI Circuits Suitable for Wireless Mobile Communication**” has submitted PhD thesis in the year 2018.
9. Dr. K. Senthil Kumar of Department of Electronics and Communication, Dr. M.G.R Educational and Research Institute, is currently pursuing Post Doctoral research under the guidance of **Prof. Subir Kumar Sarkar**.

Dr. Sudipta Chattopadhyay

- Holding the position of Chairperson, IEEE WIE, Kolkata Section since 2017.

Dr. Sayan Chatterjee

- Appointed as **Startup Coordinator** of Startup Cell in Jadavpur University in 2018
- Member of **TEQIP –III Internal core committee**, Jadavpur University.
- Member of **Improved Student learning Central committee** under TEQIP-III, Jadavpur University
- Appointed as **Nomination committee member** of IEEE Computer society Kolkata chapter in 2017 for the SLATE -2018.

KNOWLEDGE BASED SYSTEMS

[Department of Electrical Engg.]

Int. : 2457-2825

Co-ordinator: Prof. Smita Sadhu

E-mail : kbs.centre@jadavpuruniversity.in

Area of Research Activities:

Design and research in the areas of estimation and filtering techniques, fault detection and identification of nonlinear hybrid systems, real time computer control systems and safety critical and high consequence software, design review and audit of aero engine control system, aircraft stabilization, railway signaling and interlocking systems.

Major Research Projects:

1. **Robustness Analysis of AFADEC Control Laws Covering Redundancy Management**, sponsored by Gas Turbine Research Establishment, (DRDO, Ministry of Defense), Bengaluru, Rs. 24.78 lakhs. Members involved: Prof. Smita Sadhu (PI), Dr. Gautam Sarkar, Mr. Susanta Ray, Prof. T.K.Ghoshal (Hon. Adv.), Prof. K.Majumdar (Hon. Adv.), Prof. P.N.Basu (Hon. Adv.).
2. **Development and Validation of Algorithm for Estimation and Tracking of High Velocity Manoeuvring Targets** sponsored by Program AD, (DRDO, Ministry of Defense), Hyderabad, Rs. 21.53 lakhs. Members involved: Prof. Smita Sadhu (PI), Dr. Gautam Sarkar, Mr. Susanta Ray, Prof. T.K.Ghoshal (Hon. Adv.), Prof. P.N.Basu (Hon. Adv.).

Articles Published:

International Journals

1. Nilanjan Patra, Smita Sadhu, Tapan Kumar Ghoshal, "Adaptive state estimation for tracking of civilian aircraft," *IET Science, Measurement & Technology*, Volume: 12, Issue: 6, 2018, pp. 777 - 784, DOI: 10.1049/iet-smt.2017.0529
2. Sudeshna Dasgupta, Smita Sadhu, Tapan Kumar Ghoshal, "Designing disturbance observer for non-linear systems – a Hirschorn inverse approach," *IET Science, Measurement & Technology*, Volume: 11, Issue: 2, 2017, pp. 164 - 170, DOI: 10.1049/iet-smt.2016.0105
3. Sayanti Chatterjee, Smita Sadhu, Tapan Kumar Ghoshal, "Improved Estimation and Fault Detection Scheme for a Class of Nonlinear Hybrid Systems using Time Delayed Adaptive Central Difference State Estimator," *IET Signal Processing*, Volume: 11, Issue: 7, 2017, pp. 771 - 779, DOI: 10.1049/iet-spr.2016.0380

International Conferences:

4. Sudeshna Dasgupta, Smita Sadhu, T. K. Ghoshal, A Modified Active Anti-Disturbance Control for a Nonlinear CSTR Model, ASME Dynamic Systems and Control Conference (DSCC-2018), Atlanta, Georgia, USA, September 30 – October 3, 2018.

Interaction with Other Institutions/Organizations

1. Prof Smita Sadhu delivered a talk on "Verification & Validation of Flight Control Law for a Combat Aircraft" at the workshop *Advanced Control Applied to Various Field of Engineering (ACAVFE 2018)* held at Electrical Engineering Department, NIT Durgapur, during August 28-Sept. 01, 2018.
2. Prof. T.K. Ghoshal is Distinguished Visiting Professor, Department of Aerospace Engineering, IIT Kanpur.
3. Prof. T.K. Ghoshal is member of the VTOL UAV Project Team, IIT Kanpur.
4. Prof Smita Sadhu acted as External Examiner for evaluation of M.E. thesis at the Department of Electrical Engineering, IEST, Howrah in April, 2018.
5. Prof Smita Sadhu is an External expert for the Ph.D. Committee of two candidates enrolled at the Department of Electrical Engineering, IEST, Howrah.
6. Prof T.K. Ghoshal delivered a Keynote Lecture at the workshop *Advanced Control Applied to Various Field of Engineering (ACAVFE 2018)* held at Electrical Engineering Department, NIT Durgapur, during August 28-Sept. 01, 2018.
7. Prof T.K. Ghoshal delivered a talk on "Some Interesting Control Applications and Experiments" at the workshop *Advanced Control Applied to Various Field of Engineering (ACAVFE 2018)* held at Electrical Engineering Department, NIT Durgapur, during August 28-Sept. 01, 2018.

Annual Report 2017-18

8. Prof T.K. Ghoshal delivered an Invited Lecture on “Control and Commonsense” at Electrical Engineering Department, NIT Silchar, on 16 May, 2018.
9. Prof. T.K. Ghoshal was Member, Faculty selection committee meeting at NIT Durgapur.
10. Prof. T.K. Ghoshal is a Member of Evaluation Committee for Institute Challenge Grants of IIT Kharagpur.
11. Prof. T.K. Ghoshal delivered a Keynote address on “Fifty Years of Control Applications to Aerospace-Hits, Misses and Lessons Learned” at International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM-2017), IIT Kharagpur, on 29 December 2017.
12. Prof. T.K. Ghoshal delivered a Keynote address on “Aerospace Control and Commonsense -Hits, Misses and Lessons Learned “ at IIT Kanpur on 25 March 2018.
13. Prof. T.K. Ghoshal delivered a Talk on “Trends in State Estimation and Tracking” in *Recent Advances in Control Systems for Aerospace Applications* (RACSAA_2017), at RCI, Hyderabad during 26th to 28th July 2017.
14. Prof. Smita Sadhu acted as reviewer for IEEE Transactions on Aerospace and Electronic Systems, IEEE Transactions on Control Systems Technology, Elsevier Aerospace Science and Technology and many IEEE conferences.

Major Achievements

1. Two doctoral students have been awarded PhD degree in 2018. The candidates have utilized the facilities of CKBS.
2. Three Post Graduate theses have been awarded under the supervision of the Coordinator. The candidates have utilized the facilities of CKBS.

MATHEMATICAL BIOLOGY AND ECOLOGY

[Department of Mathematics]

Tel.: 2414-6716

Int. :2457-2743

Coordinator – Prof. Nandadulal Bairagi

Joint Coordinator – Prof. Dipak Kumar Kesh

E-mail: nbairagi@math.jdvvu.ac.in

1. **Courses offered:** Centre for Mathematical Biology and Ecology, Department of Mathematics, offers Mathematical Biology as a special paper in the Final M.Sc.
2. **Areas of Research Activities (Broad Areas):**
 - (a) Mathematical Ecology
 - (b) Epidemiology
 - (c) Bioeconomic modeling of exploitation of natural resources
 - (d) Marine ecosystems
 - (e) Pest management
 - (f) Physiology

- (g) Systems Biology
- (h) Environment & sustainable development.

3. Major Research Project:

Prof. Nandadulal Bairagi

1. **Title:** Modelling and analysis of stochastic HIV infection with linear and nonlinear incidence.
Funding Authority: CSIR
Duration of the project: 2018-2021
2. **Title:** Emergent dynamics in ecological networks: Spreading of disease and its control study.
Funding Authority: SERB, DST (P.I).
Duration of the project: 2017-2020
3. **Title:** Dynamics preserving discretization technique for nonlinear system of differential equations.
Funding Authority: MATRICS (SERB, DST).
Duration of the project: 2018-2021
4. **Title:** Modelling and analysis of stochastic ecological and eco-epidemiological systems with nonlinearity
Funding Authority: Indo-French Centre for Applied Mathematics (IFCAM)
Duration of the project: 2018-2021

Prof. Priti Kumar Roy

1. **Title:** Exploring uncertainties for production bottlenecks of biodiesel in SCEM: Deterministic and Stochastic studies with dynamic optimization.
Funding Authority: SERB
Duration of the project: March 16 – Till Date.
2. **Title:** Development of Models of Immune-Dependent Disorders and Finding Optimal Strategies for Their Treatment: Analytical and Computational Approaches.
Funding Authority: DST-RFBR

4. Invited Lectures Delivered/Session Chaired:

Prof. Nandadulal Bairagi

1. Invited talk delivered on Dynamical Systems: Theory & Applications (DSTA 2016) organized by Indian Institute of Technology (Indian School of Mines), Dhanbad during May 08-12, 2017.
2. Invited talk delivered in the International Conference “BIMAT 2017” held at Institute of Numerical Mathematics, Russian Academy of Sciences, Moscow, Russia from 30th October - 03rd November 2017.
3. Invited talk delivered in the Indian Science Congress 2018 held at Manipur University, Imphal during 16-20th March 2018.
4. Invited talk delivered in the International Conference on Recent Trends in Mathematical Sciences “ICRTM 2018” held at Department of Applied Mathematics, Maharaja Bir Bikram University, Agartala, Tripura during 24-25 March 2018.

Prof. Priti Kumar Roy

1. Delivered an invited talk “Enumerating the Anti-HIV potential of modern Therapeutics: A mathematical study” at Second Euro International Conference on HIV and AIDS (WCHA 2017), Kottayam, Kerala, India held on 12 -14 May 2017.
2. Resource person of “5 Day National Workshop on Recent Advances in Modelling & Computational Techniques in applied Mathematics”, IEST, Shibpur, India held on 20-24 November 2017.
3. Delivered an invited talk “A mathematical perspective on Production of Biodiesel” at a one-day

interdisciplinary seminar entitled “Applications of Mathematics in Bio-sciences”, Department of Mathematics, Sammilani Mahavidyalaya, Kolkata, India, held on 13th January 2018.

4. Delivered an invited talk “Extinction of Cancer cell: An approximate solution for HPV individuals with therapeutic control” at “Lilac International Conference of Application on Statistics (LICAS 2017)” in activity center of Harbin Institute of Technology, Harbin, P.R.China from June 2nd to 5th, 2017.
5. Delivered an invited talk “Mathematical study of Modern Therapeutics of HIV with Social Awareness” at Department of Mathematics, School of Science, Beijing University of Civil Engineering and Architecture, Beijing, P.R.China, on 6th June, 2017.
6. Delivered an invited talk “Mathematical Modeling for the Prevention of Methanol Poisoning through Ethanol by Impulsive Way” at Department of Mathematics, Beijing Institute of Technology, Beijing, P.R.China, on 8th June, 2017.
7. Delivered a talk “Mathematical Modelling of Methanol Poisoning with Impulsive Dosing of Antidote Therapeutics to Prevent Toxicity” at Peter the Great St. Petersburg Polytechnic University, ICMAS-2017, St. Petersburg-Russia, on 26th July, 2017.
8. Delivered an invited talk “Optimal Control Theoretic Approach in Modelling of HIV and Psoriasis Treatments” at the Optimal Control Department of the Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University, Moscow, Russia, on July 31, 2017.
9. Delivered an invited talk at “Anyang Institute of Technology”, in Anyang, Henan province, China, 28th March, 2018.
10. Delivered an invited talk at “Xinyang Normal University”, in Xinyang City, Henan 464000, P.R. China, 3rd April, 2018.
11. Delivered an invited talk at “Henan Normal University”, in Xinxiang Shi, Henan Sheng, China, 453002, 4th April, 2018.

Seminar/Workshop/Conference/Symposium Attended / Organized:

Centre for Mathematical Biology and Ecology in collaboration with the Biomathematical Society of India organized “**National Conference on Mathematical and Theoretical Biology**” (NCMTB 2018) during 22-23rd March, 2018.

Papers Published in Journals and Books:

Prof. Nandadulal Bairagi

1. Biswas, M., Lu, X., Cao, X. and **Bairagi, N.** “On the dynamic consistency of a delay-induced discrete predator-prey model.” *International Journal of Difference Equations*, 2018 (Accepted).
2. Adak, D and **Bairagi, N.** “Analysis and computation of multi-pathways and multi-delays HIV-1 infection model”, *Applied Mathematical Modelling*, 54, 517-537, 2018.
3. Das, P. N., Kumar, A., **Bairagi, N.** and Chatterjee, S., “Restoring calcium homeostasis in diabetic cardiomyocytes: an investigation through mathematical modeling”, *Molecular BioSystems*, 13, 2056-2068, 2017.
4. Mondal, S., Lahiri, A., **Bairagi, N.** “Analysis of a fractional order eco-epidemiological model with prey infection and type 2 functional response.” *Mathematical Methods in Applied Sciences*, 40(18), 6776-6789, 2017.
5. Mondal, S., Lahiri, A., **Bairagi, N.** “A fractional calculus approach to Rosenzweig-MacArthur predator-prey model and its solution.” *J. Modern Methods in Numerical Mathematics* 8, 66–76, 2017.
6. **Bairagi, N.** and Adak, D., “Dynamics of cytotoxic T-lymphocytes and helper cells in human immunodeficiency virus infection with Hill-type infection rate and sigmoidal CTL expansion”. *Chaos, Solitons & Fractals*, 103, 52-67, 2017.

7. Das, P. N., Mehrotra, P., Mishra, A., **Bairagi, N.** and Chatterjee, S., “Calcium dynamics in cardiac excitatory and non-excitatory cells and the role of gap junction” *Mathematical Biosciences*, 289, 51-68, 2017.
8. Biswas, M. and **Bairagi, N.** “Discretization of an eco-epidemiological model and its dynamic consistency”, *J. Difference Equation and Applications*, 23(5), 860–877, 2017.
9. Saha, P., Biswas, M. and **Bairagi, N.**, “On the dynamic consistency of a discrete predator-prey model.” *Trends in Biomathematics: Modeling, Optimization and Computational Problems ed. By R. P. Mondaini, Springer Verlag*, 2018.

Prof. Priti Kumar Roy

1. Ghosh M K, Basir F A, **Roy Priti Kumar**, Datta S, Nandi S.: “Modelling of Delay Induced control in Biochemical Reaction”, *Commun. Optim. Theory* 2017, Article ID 8, 2017.
2. Ghosh M K, Pal Joydeep, **Roy Priti Kumar**: “How Memory Regulates Drug Resistant Pathogenic Bacteria? A Mathematical Study”, *International Journal of Applied and Computational Mathematics*, DOI 10.1007/s40819-017-0339-z, 2017.
3. Basir F. A, Ezio Venturino and **Roy Priti Kumar**: “Effect of Awareness Program for controlling mosaic disease in *Jatropha curcas* Plantations”. *Mathematical Methods in Applied Sciences*, Volume 40, Issue 7, pp. 2441–2453, 2017.
4. Fahad Al Basir, **Priti Kumar Roy**, “Optimization of Biodiesel Synthesis in a Batch reactor using Maximum Principle”, *WSEAS Transactions on Environment and Development*, 11, pp. 21-31, 2017.
5. Basir F. A., **Roy Priti Kumar**: “Stability Analysis and Optimal Control of a Fractional Order Model for HIV Infection.” *WSEAS Transactions on Mathematics*, Vol.16, pp. 152-162, 2017.
6. Saha S and **Roy Priti Kumar**: “A Comparative Study between Two Systems with and without Awareness Programs in Controlling the Disease HIV/AIDS”, *International Journal of Applied Mathematics and Computer Science*, Vol. 27, No. 2, pp. 337–350, DOI 10.1515/amcs-2017-0024 2017.
7. Chowdhury J., Cao Xianbing, Basir F.A, **Roy Priti Kumar**: “Effect of Mass Transfer and Reaction Kinetics in Transesterification of *Jatropha Curcas* Oil”. *International Journal of Mathematical Models and Methods in Applied Sciences*, Volume 11, pp. 130-138, 2017.
8. Basir F. A., **Roy Priti Kumar**: “Optimization of Biodiesel Production through Enzymatic Transesterification of *Jatropha Curcas* Oil”. *International Journal of Systems, Applications, Engineering and Development*, Volume 11, pp. 21-31, 2017
9. Chakraborty S, Cui Jing-an, Pal J, Basir F. A., **Roy Priti Kumar**: “The Generalization of an n-patch Model for Leishmaniasis”. *Communications in Mathematical Biology and Neuroscience*, Vol (2017), Article ID: 17, 2017.
10. Fahad Al Basir, **Priti Kumar Roy**, “Optimization of Biodiesel Synthesis in a Batch reactor using Maximum Principle”, *WSEAS Transactions on Environment and Development*, 11, pp. 21-31, 2017.
11. Chakraborty S, Pal J, Chowdhury S, **Roy Priti Kumar**. “The Impact of Vaccination to Control Human Papillomavirus Dynamics”. *Industrial Mathematics and Complex Systems*, Springer Proceedings, DOI 10.1007/978-981-10-3758-0_16, 2017.
12. Chowdhury J, Rana S, Bhattacharya S, **Roy Priti Kumar**: ”Role of Bio-Pest Control on Theta Logistic Populations: A Case Study on *Jatropha Curcas* Cultivation System”, *Springer Proceedings*, DOI 10.1007/978-981-10-3758-0_23, 2017.

13. F Al Basir, **PK Roy**, “Dynamics of mosaic disease with roguing and delay in *Jatropha curcas* plantations”, *Journal of Applied Mathematics and Computing*, Springer, 2017.
14. Basir F A, Cao Xianbing, Kumar S, **Roy Priti Kumar**: ”Effect of Glycerol Kinetics and Mass Transfer During Enzymatic Biodiesel Production from *Jatropha* Oil”, *Springer Proceedings*, DOI 10.1007/978-981-10-3758-0_22, 2017
15. Roy A. K., **Roy Priti Kumar**, Grigorieva E.: “Mathematical Insights on Psoriasis Regulation: Role of Th_1 and Th_2 ”, *Mathematical Biosciences and Engineering*, Vol. 15, No. 3, pp. 717-738, doi:10.3934/mbe.2018032, 2018.
16. Ghosh P, Xianbing Cao, Pal J, Chowdhury S, Saha S, Nandi S, **Roy Priti Kumar**: “Mathematical Modeling for the Prevention of Methanol Poisoning through Ethanol by Impulsive Way”, *Differential Equations and Dynamical Systems*, Springer, DOI: 10.1007/s12591-018-0420-z, 2018.
17. **Roy Priti Kumar**, Zhang, Y., Ghosh, P., Pal, J. and Al Basir, F., “Role of antibiotic therapy in bacterial disease: A mathematical study.” *International Journal of Biomathematics*, p.1850038, DOI: 10.1142/S1793524518500389, 2018.
18. Ghosh P, **Roy Priti Kumar**: “Mathematical modelling of methanol poisoning with impulsive dosing of antidote therapeutics to prevent toxicity”, *Mathematical Methods in the Applied Sciences*, <https://doi.org/10.1002/mma.5129>, 2018.
19. Basir F.A., Ezio Venturino, Ray S., **Roy Priti Kumar**, “Impact of farming awareness and delay on the dynamics of mosaic disease in *Jatropha curcas* plantations”, *Computational and Applied Mathematics*, <https://doi.org/10.1007/s40314-018-0675-6>, Springer, 2018.
20. Ghosh K. M, Sardar T, Cao X, **Roy Priti Kumar**: “Mathematical study of a memory induced biochemical system”. *IEEE/CAA Journal of Automatica Sinica*, 2018.
21. Biswas D., Dolai S., Chowdhury J., **Roy Priti Kumar** and Grigorieva E.V., “Cost-effective analysis of control strategies to reduce the prevalence of cutaneous leishmaniasis, based on a mathematical model”, *Mathematical and Computational Application*, 2018.
22. F Al Basir, **PK Roy**, S Ray, “Impact of roguing and insecticides spraying on mosaic disease in *Jatropha curcas* plantation”, *Control and Cybernetics*, *In press*, 2018.
23. Hector P., **Roy Priti Kumar**, Alejandra V. P., Margarita G. B. M. : ”Biological pest control using a model-based robust feedback”, *IET Systems Biology*, 10.1049/iet-syb.2018.5010, 2018.

Prof. Dipak Kesh

1. Maji C., **Kesh D.**, Mukherjee D. (2017), “The Effect of Predator Density Dependent Transmission Rate in an Eco-Epidemic Model”, *Differential Equations and Dynamical Systems*, 1-15, <https://doi.org/10.1007/s12591-016-0342-6>.
2. Maji C., **Kesh D.**, Mukherjee D. (2017) “Persistence and global stability of a Leslie-Gower predator-prey refuge system with a competitor for the prey”, *Communications in Mathematical Biology and Neuroscience*, DOI: 10.28919/cmbn/3382
3. Maji C., Mukherjee D., **Kesh D.** (2018) “The Effect of Predator Density Dependent Transmission Rate in an Eco-Epidemic Model”, *Journal of Biological Physics*, Mar; 44(1):17-36.

Dr. Santosh Biswas

1. K.P. Das, S. Samanta, **S. Biswas**, A.S. Alshomrani, J. Chattopadhyay: “A strategy for a disease-free system - an eco-epidemiological model based study”, *Journal of Applied Mathematics and Computing* (2017), 55(2), 563-590.

Major Achievements:**Prof. Nandadulal Bairagi**

1. Elected **Sectional President**, Mathematical Sciences (Including Statistics), **106th Indian Science Congress**.
2. Received NBHM full grant for attending International Congress of Mathematicians, 2018.
3. One of our papers (Dynamics of cytotoxic T-lymphocytes and helper cells in human immunodeficiency virus infection with Hill-type infection rate and sigmoidal CTL expansion) was selected by the Journal Editor of Chaos, Solitons & Fractals and was highlighted in the Journal Webpage.

Prof. Priti Kumar Roy

Open Arms Travel Grant Awardee in Asia-Pacific Region, **ICM 2018** by IMPA and the Brazilian Mathematical Society.

MICROPROCESSOR APPLICATION FOR TRAINING EDUCATION AND RESEARCH

[Department of Computer Science and Engineering]

Phone : 2414-6766

Int. : 2457-2367/2407

Coordinator : Prof. Mita Nasipuri

E-mail : mater.centre@jadavpuruniversity.in

1. A. Courses Offered:

Name of the Course (short term)	Duration of the course	No. of students
1 Introduction to Linux and C Programming	88hrs	30
2 Python Programming	40hrs	30
3 Android App Development	40hrs	30

1. B. Number of Faculty Members:

Professor – 06

Associate Professor - 02

Assistant Professor - 01

2. A. Area of Research Activities (Broad Areas):

AI, Pattern Recognition & Image Processing, High Performance Computing, IoT, Soft Computing, Artificial Neural Networks, Evolutionary Computation, Bio-Medical Image Processing, Multimedia Technology Development, OCR of Handwritten Bengali Text, Bioinformatics, Face Processing, Machine Learning, Deep learning.

2. B. Sponsored Projects Carried Out/Ongoing (2017-18):

1. Dr. Debotosh Bhattacharjee (P.I.), Prof. Mita Nasipuri (Co-P.I.), “*Development of object detection techniques from degraded complex video sequences due to dynamic variations of scenes by different atmospheric conditions for security and surveillance*”, Funding by DRDO, duration 2 years 6 months (2018-20), Grant: INR 18.19 Lacs.
2. Dr. Subhadip Basu (P.I.), Prof. Mita Nasipuri (Co-P.I.), “*Development of some analytical tools for analysis of large-scale protein-protein interaction networks*”, Funding by DBT, duration 2017-20, Grant: INR 48.22 Lacs.
3. Dr. Subhadip Basu (P.I.), Prof. Mita Nasipuri (Co-P.I.), Dr. Debotosh Bhattacharjee (Co-P.I.), Dr. Ram Sarkar (Co-P.I.), Dr. Nibaran Das (Co-P.I.), “*Design of a Multimodal Biometric System for*

Various Security and Forensic applications”, Funding by UGC-UPE II, duration 2015-2019, Grant: INR 13.7 Lacs.

4. Dr. Subhadip Basu (P.I.), “*Development of a new morphological operator for multi-scale opening of conjoined objects*”, Funding by UGC Research Award, 2016-2018, Grant: INR 3 Lacs + approx. 24 Lacs for 2 year salary component.
 5. Dr. Ram Sarkar (P.I.), Prof. Subhadip Basu (Co-P.I.), Dr. Ayatullah Faukh Mollah (Co-P.I.), “*Multilingual Text Analytics for Camera-based Handheld Devices*”, Funding by DST, Govt. of India, duration 2017-2020, Rs. 25,96,440/-.
 6. Prof. Mita Nasipuri (P.I.), Prof. Mahantapas Kundu (Co-P.I.), Dr. Debotosh Bhattacharjee (Co-P.I.), Dr. Subhadip Basu (Co-P.I.), Dr. Ram Sarkar (Co-P.I.), Dr. Nibaran Das (Co-P.I.), “*Multispectral Image Analysis for Various Security and Medical Applications*”, funding by DST PURSE-II, Govt. of India, duration 2015-2018, Rs.37 Lacs , .
 7. Dr. Nibaran Das (P.I.), Prof. Mita Nasipuri (Co-P.I.) “*Development of knowledge graph from images using Deep learning*”, Extra Mural Research Project, (PI), funding by SERB, Govt. of India, duration 2016-2019, Amount: Rs. 33 Lacs
3. **A. Invited Lectures Delivered by Faculty Members Associated with the Centre:**
- Tutorial lecture by **Prof. Debotosh Bhattacharjee** on “Human Face Recognition” at Computer Society of India Convention 2018, University of Calcutta, Kolkata on 19th January 2018.
 - Invited Talk by **Prof. Debotosh Bhattacharjee** on “Ensemble Classifiers” at RCCIT, Kolkata, 26th July 2017.
 - Invited Talk by **Prof. Debotosh Bhattacharjee** on “Machine Learning and Data Science” at Future Institute of Engineering and Management, Kolkata, 5th May 2017.
 - Invited Talk by **Prof. Debotosh Bhattacharjee** on “Machine Learning Techniques” at Techno India Batanagar College, 11th April 2017, Kolkata. .
 - Invited lecture by **Prof. Nandini Mukherjee** on “IoT-enabled Remote Healthcare Delivery: Opportunities and Challenges” in a one-day seminar organised by S.A. Jaipuria College on 11th January 2018.
 - Keynote speech by **Prof. Nandini Mukherjee** in the International Conference on Intelligent Communication and Computational Techniques 2017 (ICCT17) organised by Manipal University, Jaipur on “IoT-enabled Remote Healthcare: Opportunities and Challenges” on 22nd December 2017
 - Invited lecture by **Prof. Nandini Mukherjee** on “Routing in Wireless Sensor Networks” and “IPv6-based Wireless Sensor Networks” in a faculty development program organised by IIT (ISM), Dhanbad on 19th December 2017
 - Invited lecture by **Prof. Nandini Mukherjee** in a one week workshop on “Practical Perspective towards Big Data in Cloud”” organised by Department of Information Technology, Jadavpur University on 12th July 2017
 - Invited lecture by **Prof. Nandini Mukherjee** in a workshop on “IoT and Remote Healthcare” organised by KIIT University on 6th and 7th April 2017
 - Invited lecture by **Prof. Nandini Mukherjee** in a two day workshop on “Working with Git, gitHub and Open Source Software Tools” organised by Department of Information Technology, Jadavpur University on 31st March 2017
 - Invited lecture by **Prof. Susmita Ghosh** on “Evolutionary Computation and its Applications” in ISTE-AICTE sponsored Induction Program on “Machine Learning and Soft Computing”, Seemanta Engineering College, Bhubaneswar, July 2018

Annual Report 2017-18

- Invited lecture by **Prof. Susmita Ghosh** on “*Introduction to Machine Learning*”, “*Neuro Computing: An Introduction*”, and “*Kohonen’s Self Organizing Feature Map Neural Network*” on a lecture series entitled “Learning Systems and Neural Learning” at IDRBT, Hyderabad on June 2018.
- Invited lecture by **Prof. Susmita Ghosh** on “*Evolutionary Computation and its Applications*” at Faculty Development Program organized by NIT Warangal at GITAM University, Hyderabad on June 2018.
- Invited lecture by **Prof. Susmita Ghosh** on “*Kohonen’s Self Organizing Feature Map Neural Network*” at Siksha O Anusandhan University, ITER, Bhubaneswar on May 2018.
- Invited lecture by **Prof. Susmita Ghosh** on “*Evolutionary Computation and its Applications*” in a National Workshop on “Data Analytics and Machine Learning” at GMR Institute of Technology, Rajam, Andhra Pradesh on April 2018.
- Invited lecture by **Prof. Susmita Ghosh** on “*Evolutionary Computation and its Applications*” in a National Workshop on “Soft Computing and its application in Real life problem” at NIT Agartala on April 2018.
- Invited lecture by **Prof. Susmita Ghosh** on “Artificial Intelligence: Search Strategies”, Department of Petroleum Engineering, University of Stavanger, Norway, September 24, 2017
- Invited lecture by **Prof. Susmita Ghosh** on “Dimensionality Reduction of Hyperspectral Images”, Computer Science Department, Yonsei University, South Korea, July 12, 2017
- Invited lecture by **Prof. Susmita Ghosh** on “Evolutionary Computing and Applications” in a Seminar entitled “Recent Trends in ML and Evolutionary Computing” at CSE Department Bharati Vidyapeeth’s College of Engineering, at New Delhi, May 2017.
- Invited lecture by **Prof. Susmita Ghosh** on “Genetic Algorithms and Their Applications” in a National Conference titled “Machine Learning and Data Science in Internet of Things” at Fakir Mohan University, Balasore, March 2017.
- Invited lecture by **Prof. Susmita Ghosh** on “*Genetic Algorithms and Their Applications*” in a
- Invited lecture by **Prof. Subhadip Basu** at Hannover Medical School, Germany, July 19, 2017.
- Invited lecture by **Prof. Subhadip Basu** at *Technology Awareness Programme*, jointly conducted by of Engineering and Management (IEM), Kolkata., 8th September 2017.
- Invited lecture by **Dr. Sarbani Roy** on “*Convergence of IoT and Cloud*”, in a workshop on Role of Computing on Healthcare, sponsored by ITRA, organized by School of Computer Engineering, KIIT University, Bhubaneswar, 23rd June 2017.
- Invited lecture by **Dr. Sarbani Roy** on “*IoT meets Big Data*”, in 2-week summer school on IoT and Data Science, jointly organized by Jadavpur University and University of Calcutta, 27th June 2017.
- Invited lecture by **Dr. Sarbani Roy** on “*Overview of CPS and its uses in societal applications*”, in an Inter-disciplinary Refreshers Course on Understanding ICT for Professional Development in Education, 21st December 2017.
- Invited lecture by **Dr. Nibaran Das** on “*Usage of Deep Learning for handwritten character recognition system*” on 24th March 2018 at second International Conference on Computing & Communication (IC3-2018), organized by SMIT, Sikkim.

B. Seminar/Workshop/Conference/Symposium Attended

- **Prof. Debotosh Bhattacharjee** attended Computer Society of India Convention 2018, University of Calcutta, Kolkata.
- **Prof. Nandini Mukherjee** Served as a panelist on “Data Analytics on IoT: Applications, Impacts and Vulnerabilities” in the 19th International Conference on Distributed Computing and Networking (ICDCN 2018) held in BHU, Varanasi.
- **Prof. Susmita Ghosh** chaired a session at the 7th International Conference on Machine Intelligence (PReMI), Kolkata, December 2017
- **Prof. Susmita Ghosh** visited University of Stavanger, Norway to attend a joint Seminar/ Workshop, September 23-27, 2017
- **Prof. Subhadip Basu** attended 7th International Conference on Pattern Recognition and Machine Intelligence, PReMI-2017 to be held on December 05 - 08, 2017, Kolkata, India.
- **Dr. Sarbani Roy** attended 19th International Conference on Distributed Computing and Networking ICDCN 2018 and Workshops at, BHU, Varanasi, January 4-7 2018
- **Dr. Nibaran Das** attended and chaired a session at the second International Conference on Computing & Communication (IC3-2018), organized by SMIT, Sikkim during March 23-24, 2018

3. C. Seminar/Workshop/Conference/Symposium Organized:

Prof Mita Nasipuri and Prof. Subhadip Basu acted as Joint Coordinators on MHRD Sponsored one-week GIAN course on “*Human Genomics: Computational Methods and Applications*”, held at CSE Dept, JU during Dec. 11-16, 2017

4. B. Book Chapters:

1. P. K. Sing, S. Das, **R. Sarkar, M. Nasipuri**, “A Two-stage Approach to Handwritten Indic Script Identification”, in Hybrid Intelligence for Image Analysis and Understanding, Siddhartha Bhattacharyya et al. (eds.), pp. 47-77, by John Wiley, UK, Aug 2017.
2. B. K. Ray, S. Khatua, **S. Roy**, A Game Theoretic Model for Cloud Federation, book chapter for Cloud Computing for Optimization: Foundations, Applications, and Challenges, Springer, 2018.
3. C. Chowdhury, **S. Roy**, Mobile Crowd-Sensing for Smart Cities, book chapter for Smart Cities: Foundations, Principles and Applications (Wiley), June 2017.

E. Articles Published in Journals:

1. S. Chatterjee, P. Banerjee, **M. Nasipuri**, “Optimized Flexible Power Selection for Opportunistic Underlay Cognitive Radio Networks”, Wireless Personal Communications, Volume 96, Issue 1, pp 1193–1213, September 2017
2. H. Roy, **D. Bhattacharjee**, “A ZigZag Pattern of Local Extremum Logarithm Difference for Illumination-Invariant and Heterogeneous Face Recognition,” Transactions on Computational Science XXXI, 1-19, 2018
3. H. Roy, **D. Bhattacharjee**, A novel local wavelet energy mesh pattern (LWEMeP) for heterogeneous face recognition,” Image and Vision Computing, Elsevier, 72, 1-13, 2018 .
4. A. Bera, **D. Bhattacharjee, M. Nasipuri**, “Finger contour profile based hand biometric recognition”, Multimedia Tools and Applications, Springer, vol. 76, issue 20, pp. 21451-21479, 2017.
5. A. Kar, S. Sarkar, **D. Bhattacharjee**, “Local Centre of Mass Face for face recognition under varying illumination”, Multimedia Tools and Applications, Springer, Vol. 76, Issue 18, pp. 19211-19240, 2017.

6. P. Saha, **D. Bhattacharjee**, B. K. De, **M. Nasipuri**, “Facial component-based blended facial expressions generation from static neutral face images”, *Multimedia Tools and Applications*, Springer, pp. 1-30, 2017. 2017.
7. A. Hasnat, S. Halder, **D. Bhattacharjee**, **M. Nasipuri**, “A Novel Approach for Colorization of a Grayscale Image using Soft Computing Techniques”, *International Journal of Multimedia Data Engineering and Management (IJMDEM)*, IGI Global, Vol. 8, Issue 4, pp. 19-43, 2017.
8. A. Seal, **D. Bhattacharjee**, **M. Nasipuri**, D. Rodríguez Esparragón, E. Menasalvas, C. Gonzalo Martin, “PET CT image fusion using random forest and à trous wavelet transform”, *International journal for numerical methods in biomedical engineering*, Volume34, Issue 3, March 2018.
9. P. Ghosh, **D. Bhattacharjee**, **M. Nasipuri**, “Automatic System for Plasmodium Species Identification from Microscopic Images of Blood-Smear Samples”, *Journal of Healthcare Informatics Research*, Volume 1, Issue 2, pp 231–259, 2017.
10. S. Maity, A. Chakrabarti, **D. Bhattacharjee**, “Robust Human Action Recognition Using AREI Features and Trajectory Analysis from Silhouette Image Sequence”, *IETE Journal of Research*, Taylor & Francis, pp. 1-14, 2017.
11. H. Roy, **D. Bhattacharjee**, “A novel quaternary pattern of local maximum quotient for heterogeneous face recognition,” *Pattern Recognition Letters*, <https://doi.org/10.1016/j.patrec.2017.09.029>, 2017.
12. A. Bera, **D. Bhattacharjee**, “Human Identification Using Selected Features from Finger Geometric Profiles,” *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, Vol. PP, Issue 99, 2017.
13. M. K. Bhowmik, U. R. Gogoi, G. Majumdar, **D. Bhattacharjee**, D. Datta, A. K. Ghosh, “Designing of Ground Truth Annotated DBT-TU-JU Breast Thermogram Database towards Early Abnormality Prediction,” *IEEE Journal of Biomedical and Health Informatics*, DOI: 10.1109/JBHI.2017.2740500, 2017.
14. A. Seal, **D. Bhattacharjee**, **M. Nasipuri**, “Predictive and probabilistic model for cancer detection using computer tomography images”, *Multimedia Tools and Applications Journal*, Springer, 77(3), 3991-4010, 2018.
15. A. Seal, **D. Bhattacharjee**, **M. Nasipuri**, Consuelo Gonzalo-Martin and Ernestina Menasalvas, “Fusion of Visible and Thermal images using A Directed Search method for Face Recognition”, *International Journal of Pattern Recognition and Artificial Intelligence*, World Scientific Publishing Company, Vol. 31, No. 04, 1756005, 2017.
16. S. Maity, A. Chakrabarti, **D. Bhattacharjee**, “A Novel Approach for Human Action Recognition from Silhouette Images,” *IETE Journal of Research* 63(2), 160-171, 2017.
17. A. Hasnat, D. Barman, S. Halder, **D. Bhattacharjee**, “Modified Vector Quantization Algorithm to Overcome the Blocking Artefact Problem of Vector Quantization Algorithm”, *Journal of Intelligent and Fuzzy Systems*, IOS Press, Vol. 32, Issue 5, pp. 3711-3727, 2017. 2017.
18. A. Hasnat, S. Halder, **D. Bhattacharjee**, **M. Nasipuri**, “A Proposed Grayscale Face Image Colorization System using Particle Swarm Optimization”, *International Journal of Virtual and Augmented Reality (IJVAR)*, IGI publication, Vol. 1, Issue 2, 2017.
19. H. Roy, D. Bhattacharjee, “Face sketch-photo recognition using local gradient checksum: LGCS,” *Int. J. Mach. Learn. & Cyber. Issue 5/2017*, pp. 1-13, Springer, 2017.
20. S. Bhowmik, S. Malakar, R. Sarkar, S. Basu, **M. Kundu**, **M. Nasipuri**, “Off-line Bangla handwritten word recognition: a holistic approach,” *Neural Computing and Applications*, 1-16, in press.
21. A. Banerjee, S. Basu, **S. Basu**, **M. Nasipuri**, “ARTEM: a new system for human authentication using finger vein images”, *Multimedia Tools and Applications*, 77(5), 5857-5884, 2018.
22. **S. Basu**, P. K. Saha, M. Roszkowska, M. Magnowska, E. Baczynska, N. Das, D. Plewczynski, J. Wlodarczyk, “Quantitative 3-D morphometric analysis of individual dendritic spines,” *Scientific Reports*, 8: 354, 2018.

23. R. Roy, **S. Ghosh** and A. Ghosh, “Speckle De-noising of Clinical Ultrasound Images based on Fuzzy Spel Conformity in its Adjacency”, *Applied Soft Computing*, 2018.
24. A. Datta, **S. Ghosh** and A. Ghosh, “Unsupervised Band Extraction of Hyperspectral Images using Clustering and kernel Principal Component Analysis”, *International Journal of Remote Sensing*, vol. 38, issue 3, pp. 850-873, 2017.
25. A. Mondal, **S. Ghosh** and A. Ghosh, “Partially Camouflaged Object Tracking using Modified Probabilistic Neural Network and Fuzzy Energy based Active Contour”, *International Journal of Computer Vision*, Springer, vol. 122(1), pp. 116-148, 2017.
26. B. N Subudhi, **S. Ghosh**, P. K. Nanda, and A Ghosh, “Moving Object Detection using Spatio-temporal Multilayer Compound Markov Random Field and Histogram Thresholding based Change Detection”, *Multimedia Tools and Applications*, vol.76, no.11, pp. 13511-13543, 2017.
27. A. Datta, **S. Ghosh** and A. Ghosh, “Supervised Feature Extraction of Hyperspectral Images using Partitioned Maximum Margin Criterion”, *IEEE Journal of Geoscience and Remote Sensing Letters*, vol. 14, no. 1, pp. 82-86, 2017.
28. A. K. Halder, P. Dutta, M. Kundu, S. Basu, M. Nasipuri, “Review of computational methods for virus-host protein interaction prediction: a case study on novel Ebola-Human interactions”, *Briefings in Functional Genomics*, <https://doi.org/10.1093/bfpg/elx026>.
29. S. Saha, K. Sengupta, **S. Basu, M. Nasipuri**, P. Chatterjee, “Analysis of Protein Targets in Pathogen-Host Interaction in Infectious Diseases: A Case Study on Plasmodium falciparum and Homo sapiens Interaction Network”, *Briefings in Functional Genomics*, <https://doi.org/10.1093/bfpg/elx024>.
30. M. H. Mahalat, A. F. Mollah, **S. Basu, M. Nasipuri**, “Design of Novel Post-Processing Algorithms for Handwritten Arabic Numerals Classification”, *International Journal of Applied Pattern Recognition*, vol. 4(4), pp. 342–357.
31. A. Banerjee, P. Das, O. Mekkerdchoo, C. B, Georges Srzednicki, **M. Nasipuri, S. Basu**, “A soft computing tool for species classification and prediction of glucomannan content in Amorphophallus genus”, *Engineering in Life Sciences*, Volume17, Issue12, Pages 1254-1263, December 2017.
32. P. Dutta, A. K. Halder, **S. Basu, M. Kundu**, “A survey on Ebola genome and current trends in computational research on the Ebola virus”, *Briefings in Functional Genomics*, <https://doi.org/10.1093/bfpg/elx020>.
33. I. Guha, N. Das, P. Rakshit, **M. Nasipuri**, P. K. Saha, **S. Basu**, “A semiautomatic approach for segmentation of carotid vasculature from patients’ CTA images”, *Innovations in Systems and Software Engineering*, Springer Volume 13, Issue 4, pp 243–250.
34. P. K. Singh, R. Sarkar, N. Das, **S. Basu, M. Kundu, M. Nasipuri**, “Benchmark databases of handwritten Bangla-Roman and Devanagari-Roman mixed-script document images”, *Multimedia Tools and Applications*, Springer, Volume 77, Issue 7, pp 8441–8473, 2017.
35. S. Sen, A. Bhattacharyya, P. K. Sing, **R. Sarkar**, K. Roy, D. Doermann, “Application of Structural and Topological Features to Recognize Online Handwritten Bangla Characters”, *ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)*, vol. 17, issue 3, article no. 20, February 2018.
36. S. Sen, S. Chowdhury, M. Mitra, F. Schwenker, **R. Sarkar**, K. Roy, “A Novel Segmentation Technique for Online Handwritten Bangla Words”, *Pattern Recognition Letters*, Elsevier, <https://doi.org/10.1016/j.patrec.2018.02.008>, 2018.
37. S. K. Ghosal, J. K. Mandal, **R. Sarkar**, “High payload image steganography based on Laplacian of Gaussian (LoG) edge detector”, *Multimedia Tools Applications*, Springer, <https://doi.org/10.1007/s11042-018-6126-y>, 2018
38. S. Bhowmik, **R. Sarkar, M. Nasipuri**, D. Doermann, “Text and Non-text Separation in Offline Document Images: a Survey”, *International Journal on Document Analysis and Recognition (IJ DAR)*, Springer, <https://doi.org/10.1007/s10032-018-0296-z>, 2018,
39. S. Saha, S. K. Ghosal, A. Chakraborty, S. Dhargupta, **R. Sarkar**, J. K. Mandal, “Improved Exploiting

- Modification Direction based Steganography using Dynamic Weightage Array”, *Electronics Letters, IET*, DOI: 10.1049/el.2017.3336, 2018
40. S. Sahoo, S. K. Nandi, S. Barua, P. Priyam, S. Bhowmik, S. Malakar, **R. Sarkar**, “Handwritten Bangla Word Recognition using Negative Refraction based Shape Transformation”, *Special Issue on Ambient Advancements in Intelligent Computational Sciences for Journal of Intelligent & Fuzzy Systems- Applications in Engineering and Technology*, IOS Press, DOI: 10.3233/JIFS-169712, 2018
 41. S. K. Bera, R. Kar, S. Saha, A. Chakrabarty, S. Lahiri, S. Malakar, **R. Sarkar**, “A One-Pass Approach for Slope and Slant Estimation of Tri-Script Handwritten Words”, *Journal of Intelligent Systems*, De Gruyter, DOI: <https://doi.org/10.1515/jisys-2018-0105>, 2018.
 42. S. Malakar, M. Ghosh, **R. Sarkar**, M. Nasipuri, “Development of a Two-Stage Segmentation based Word Searching Method for Handwritten Document Images”, *Journal of Intelligent Systems*, De Gruyter, DOI: <https://doi.org/10.1515/jisys-2017-0384>.
 43. A. Mukhopadhyay, P. K. Singh, **R. Sarkar**, M. Nasipuri, “Handwritten Indic Script Recognition based on the Dempster-Shafer Theory of Evidence”, *Journal of Intelligent Systems*, De Gruyter, 2018, **DOI**: <https://doi.org/10.1515/jisys-2017-0431>.
 44. R. Zeenat, S. Roy, N. Mukherjee. “Multi-criteria Routing in a Partitioned Wireless Sensor Network.” *Wireless Personal Communications* 94, no. 4 (2017): 3415-3449. 2017.
 45. S. Roy, P. Dey, D. Kundu, “Social Network Analysis of Cricket Community Using a Composite Distributed Framework: From Implementation Viewpoint”, in *IEEE Transactions on Computational Social Systems*, vol. 5, no. 1, pp. 64-81, March 2018.
 46. T. Maitra, S. Roy, “Research Challenges in BAN Due to the Mixed WSN Features: Some Perspectives and Future Directions”, in *IEEE Sensors Journal*, Vol. 17, no. 17, pp. 5759-5766, September 2017.
 47. R. Sarkhel, N. Das, A. K. Saha, M. Nasipuri, “An improved Harmony Search Algorithm embedded with a novel piecewise opposition based learning algorithm,” *Eng. Appl. Artif. Intell.*, vol. 67, pp. 317–330, 2018 .
 48. S. Ghosh, **N. Das**, T. Gonçalves, P. Quaresma, **M. Kundu**, “The journey of graph kernels through two decades,” *Comput. Sci. Rev.*, vol. 27, pp. 88–111, Feb. 2018
 49. S. Choudhuri, **N. Das**, R. Sarkhel, **M. Nasipuri**, “Object Localization on Natural Scenes: A Survey,” *Int. J. Pattern Recognit. Artif. Intell.*, vol. 32, no. 2, p. 1855001(39 pages), 2018.
 50. Sk Md Obaidullah, C. Halder, K. C. Santosh, **N. Das**, K. Roy, “Automatic Line-Level Script Identification From Handwritten Document Images - A Region-Wise Classification Framework For Indian Subcontinent”, in *Malaysian Journal of Computer Science (MJCS)*, vol. 31, no. 1, pp. 63-84, 2018.
 51. Sk Md Obaidullah, C. Halder, K. C. Santosh, **N. Das**, K. Roy, “PHDIndic_11:Page-level handwritten document image dataset of 11 official Indic scripts for script identification”, in *Multimedia Tools and Applications (MTAP)*, 77(2), pp. 1643-1678 (2018) Springer, doi:10.1007/s11042-017-4373-y, 2017.
 52. R. Sarkhel, **N. Das**, A. Das, M. Kundu, M. Nasipuri, “A multi-scale deep quad tree based feature extraction method for the recognition of isolated handwritten characters of popular indic scripts,” *Pattern Recognition.*, vol. 71, pp. 78–93, Nov. 2017.
 53. S. Roy, **N. Das**, M. Kundu, M. Nasipuri: Handwritten isolated Bangla compound character recognition: A new benchmark using a novel deep learning approach. *Pattern Recognition Letters* 90: 15-21, 2017.
 54. Sk Md Obaidullah, K. C. Santosh, C. Halder, **N. Das**, K. Roy, “Word-level Multi-script Indic Document Image Dataset and Baseline Results on Script Identification” *International Journal of Computer Vision and Image Processing (IJCVIP)*, IGI Global, 2017, vol. 7, no. 2, pp. 81-94.

E. Articles Published in International Conferences:

1. A. Raychaudhuri, S. Maity, A. Chakrabarti, **D. Bhattacharjee**, “Moving object detection in video under dynamic background condition using block-based statistical features”, International Conference on Computational Intelligence, Communications, and Business Analytics, 2017, 371-383.
2. S.S. Bhowmick, I. Saha, L. Rato, **D. Bhattacharjee**, “Integrated Classifier: A Tool for Microarray Analysis”, International Conference on Computational Intelligence, Communications, and Business Analytics, 2017, 30-43.
3. U. R. Gogoi, M. K. Bhowmik, A. K. Ghosh, **D. Bhattacharjee**, G. Majumdar, “Discriminative feature selection for breast abnormality detection and accurate classification of thermograms”, International Conference on Innovations in Electronics, Signal Processing and Communication (IESC), 2017, 39-44.
4. P. Dutta, **D. Bhattacharjee**, “Face Detection Using Rough Set Based Clustering Technique and Skin Tone Segmentation”, International Asia Conference on Informatics in Control, Automation and Robotics, 2017, 64-67,
5. M. Ghosh, **D. Bhattacharjee**, “Human Identification by Gait Using Fourier Descriptor and Angle-Based Pseudo Anatomical Landmark Model”, International Conference on Next Generation Computing Technologies, 2017, 704-721.
6. A. Seal, **D. Bhattacharjee**, **Mita Nasipuri**, **D. K. Basu**, “Thermal Human Face Recognition for Biometric Security System”, Computer Vision: Concepts, Methodologies, Tools, and Applications, 1838-1863, 2018.
7. A. Bera, **D. Bhattacharjee**, **M. Nasipuri**, Hand Biometric Verification with Hand Image-Based CAPTCHA, Advanced Computing and Systems for Security, 3-18, 2018.
8. H. Roy, **D. Bhattacharjee**, “Heterogeneous Face Matching Using ZigZag Pattern of Local Extremum Logarithm Difference: ZZPLELD”, Advanced Computing and Systems for Security, 121-135, 2018.
9. **S. Basu**, P. Saha, E. Baczynska, N. Das, I. Saha, P. Rakshit, M. Roszkowska, J. Wlodarczyk, “Segmentation and assessment of structural plasticity of hippocampal dendritic spines from 3D confocal light microscopy”, in SPIE Medical Imaging, 2018.
10. B Barai, D Das, **N Das**, **S Basu**, **M Nasipuri**, Closed-Set Text-Independent Automatic Speaker Recognition System Using VQ/GMM, Intelligent Engineering Informatics 337-346, 2018.
11. K. Sengupta, S. Saha, P. Chatterjee, **M. Kundu**, **M. Nasipuri**, **S. Basu**, Ranked Ontology Based Protein Function Prediction by Analysis of Protein–Protein Interactions, Information and Decision Sciences, 419-427, 2018
12. P. Rakshit, N. Das, **M. Nasipuri**, **S. Basu**, Hemodynamic Analysis on Human Cerebrovascular Phantoms with and Without Aneurysm, Proceedings of the International Conference on Computing and Communication Systems, 2018
13. P. Rakshit, N. Das, **M. Nasipuri**, **S. Basu**, A Qualitative Hemodynamic Analysis on Human Cerebrovascular Phantom, Progress in Advanced Computing and Intelligent Engineering, 219-229, 2018.
14. I. Guha, N. Das, P. Rakshit, **M Nasipuri**, PK Saha, **S Basu**, Design of Cerebrovascular Phantoms Using Fuzzy Distance Transform-based Geodesic Paths, Progress in Intelligent Computing Techniques: Theory, Practice, and Applications, 2018
15. S. S. Bandyopadhyay, A. K. Halder, P. Chatterjee, **M. Nasipuri**, **S. Basu**, “HdK-Means: Hadoop Based Parallel K-Means Clustering for Big Data”, accepted for publication in proceedings of IEEE CALCON 2017, Kolkata, India.
16. N. Das, P. Rakshit, **M. Nasipuri**, and **S. Basu**, “3-D Digital flows in cerebrovascular phantoms,” in 9th International conference on Pattern Recognition [ICAPR-2017], 2017.

17. B. Sriwastava, **S. Basu**, U. Maulik, "A quasi-clique mining algorithm for analysis of the human protein-protein interaction network", accepted for publication in proceedings of 7th International Conference on Pattern Recognition and Machine Intelligence, PReMI-2017 to be held on December 05 - 08, 2017, Kolkata, India
18. A. K. Halder, P. Dutta, **M. Kundu**, **M. Nasipuri**, **S. Basu**, "Prediction of Thyroid Cancer genes using an ensemble of Post Translational Modification, Semantic and Structural similarity based clustering results", accepted for publication in proceedings of 7th International Conference on Pattern Recognition and Machine Intelligence, PReMI-2017 to be held on December 05 - 08, 2017, Kolkata, India.
19. B. Barai, D. Das, **N. Das**, **S. Basu**, **M. Nasipuri**, An ASR system using MFCC and VQ/GMM with emphasis on environmental dependency, Calcutta Conference (CALCON), 2017 IEEE, 362-366.
20. S. Paul, H. Nasser, **M. Nasipuri**, P. Ngo, **S. Basu**, I. Debled-Rennesson, "A Statistical-Topological Feature Combination for Recognition of Isolated Hand Gestures from Kinect Based Depth Images", IWCIA-2017, Plovdiv, Bulgaria
21. P. Dutta, **S. Basu**, **M. Kundu**, "A new hybrid semantic similarity measure using information content and topological features of the Gene Ontology graph", 2017 International Conference on Computer Communication and Informatics.
22. R. Das, S. Mondal, **N. Mukherjee**, "MoRe-care: Mobile-assisted remote healthcare service delivery," 2018 10th International Conference on Communication Systems & Networks (COMSNETS), Bengaluru, 2018, pp. 677-681.
23. A. Mandal, S. Bose, **N. Mukherjee**, "Impact of Mobility on Community Sensing with Environment Sensors." In Signal-Image Technology & Internet-Based Systems (SITIS), 2017 13th International Conference on, pp. 396-401. IEEE, 2017.
24. P. S. Sen, S. Banerjee, **N. Mukherjee**, "Ontology-driven Approach to Health Data Management for Remote Healthcare Delivery". In Proceedings of the 7th ACM Workshop on ACM Mobile Health 2017 (MobileHealth' 17). ACM, New York, NY, USA, Article 2, 6 pages. 2017
25. A. Gupta, **N. Mukherjee**. "Can the Challenges of IOT be Overcome by Virtual Sensors." In Internet of Things (iThings) and IEEE Green Computing and Communications (GreenCom) and IEEE Cyber, Physical and Social Computing (CPSCom) and IEEE Smart Data (SmartData), 2017 IEEE International Conference on, pp. 584-590. IEEE, 2017.
26. U. Sen, M. Sarkar, **N. Mukherjee**, "A Heuristic-Based Resource Allocation Approach for Parallel Execution of Interacting Tasks." In 2017 IEEE 7th International Advance Computing Conference (IACC), pp. 764-771. IEEE, 2017.
27. A. Gupta, S. Sarkar, **N. Mukherjee**, "On uncertainty determination in eHealth sensors." In Sensors Applications Symposium (SAS), 2017 IEEE, pp. 1-6. IEEE, 2017.
28. S. Mondal, **N. Mukherjee**, "A framework for ICT-based primary healthcare delivery for children." In Communication Systems and Networks (COMSNETS), 2017 9th International Conference on, pp. 525-529. IEEE, 2017.
29. P. Subba, **S. Ghosh**, and R. Roy, "Partitioned-Based Clustering Approaches for Single Document Extractive Text Summarization", In fifth international conference on Mining Intelligence and Knowledge Exploration (MIKE 2017), pp. 297-307, Springer (LNAI 10682).
30. R. Roy, **S. Ghosh**, S. B. Cho, and A. Ghosh, "Despeckling with Structure Preservation in Clinical Ultrasound Images using Historical Edge Information Weighted Regularizer", In fifth international conference on Mining Intelligence and Knowledge Exploration (MIKE 2017), pp. 144-155 Springer (LNAI 10682).

31. S. Ghosh, J. Dutta, **S. Roy**, “SenseDcity: a participatory sensing based approach”, in Proceedings of the Workshop Program of the 19th International Conference on Distributed Computing and Networking (Workshops ICDCN '18), ACM, New York, NY, USA, Article 16, 2018.
32. B. Bose, J. Dutta, S. Ghosh, P. Pramanick, **S. Roy**, “Smartphone based system for real-time aggressive driving detection and marking rash driving-prone areas”, in Proceedings of the Workshop Program of the 19th International Conference on Distributed Computing and Networking (Workshops ICDCN '18). ACM, New York, NY, USA, Article 27, 2018.
33. T. Maitra, **S. Roy**, “RSSI-Based Posture Identification for Repeated and Continuous Motions in Body Area Network”, in Bhateja V., Coello Coello C., Satapathy S., Pattnaik P. (eds) Intelligent Engineering Informatics, Advances in Intelligent Systems and Computing, vol 695, Springer, 2018.
34. J. Dutta, P. Pramanick, **S. Roy**, “Energy-Efficient GPS Usage in Location-Based Applications”, in: Satapathy S., Tavares J., Bhateja V., Mohanty J. (eds) Information and Decision Sciences, Advances in Intelligent Systems and Computing, vol 701, Springer, 2018.
35. P. Dey, A. Chatterjee, **S. Roy**, “Knowledge based community detection in online social network”, 10th International Conference on Communication Systems & Networks (COMSNETS), Bengaluru, pp. 637-642, 2018.
36. P. Dey, **S. Roy**, “Ego Based Community Detection in Online Social Network”, In: Negi A., Bhatnagar R., Parida L. (eds) Distributed Computing and Internet Technology. ICDCIT 2018.
37. J. Dutta, **S. Roy**, “IoT-fog-cloud based architecture for smart city: Prototype of a smart building,” 2017 7th International Conference on Cloud Computing, Data Science & Engineering Confluence, Noida, 2017, pp. 237-242. doi: 10.1109/CONFLUENCE.2017.7943156
38. P. Dey, S. Pyne, **S. Roy**, “Information spreading in Online Social Networks: A case study on Twitter network”, in Mobihoc '17 The Eighteenth ACM International Symposium on Mobile Ad Hoc Networking and Computing, 2017.

5. Collaborative Programmes:

Major International Collaborators:

1. University of Iowa, USA
2. University of Warsaw, Poland
3. Nencki Institute of Experimental Biology, Poland
4. University of Lorraine. France
5. Hannover Medical School, Germany
6. University of Evora, Portugal

6. Major Achievements:

A. Special Achievement Award:

- Prof. Subhadip Basu received DAAD Fellowship from Germany
- Prof. Subhadip Basu received Honorary Research Scientist position at Department of Electrical and Computer Engineering, University of Iowa, USA.
- Prof. Subhadip Basu received Research Award from UGC, Govt. of India

NUCLEAR AND PARTICLE PHYSICS RESEARCH CENTRE

[Department of Physics]

Int. : 2457-2352

Coordinator : Prof. Argha Deb

E-mail : nppr.centre@jadavpuruniversity.in

1. B. Number of Faculty Members :4 (four)

2. A. Area of Research Activities :

- High energy hadronic and leptonic interactions
- Relativistic and ultra-relativistic heavy ion interactions
- Quark gluon plasma
- Environmental radioactivity
- Radon Physics
- Hadron structure
- Beyond Standard Model
- Supersymmetry

2. B. Major Research Projects:

Project Title	Funding Agency
(Ongoing)	
1. Real Time Radon Monitoring for Seismic Surveillance	UGC (UPE-II)
2. Study on QGP and Its Properties Using Correlation and Fluctuation Phenomena in Ultra- relativistic Heavy Ion Collisions	DST, WB

2. B. Seminar/Workshop/Conference/Symposium Attended:

- i. 6th International Conference on Ecotoxicology and Environmental Sciences (ICEES-2018), 19-21 February, 2018
- ii. Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018
- iii. 25th West Bengal State Science and Technology Congress, 2018. Science City Auditorium, Kolkata. 4-5 March 2018.

4. B. Articles Published in Journals:

- i. M. Mondal, S. Biswas Ghosh, D. Ghosh, A. Deb, Forward–backward multiplicity correlations in ring like and jet like events in ^{16}O –AgBr interactions at 60 AGeV, Published in Phys. Part. Nucl. Lett. 14 (2017) 459-464.
- ii. Deb A., Gazi M., Bhoumik G., Naskar A., Barman C., Exposure to underground radon in and around Kolkata Municipal Corporation area: an exhaustive study. Journal of Radioanalytical and Nuclear Chemistry, 311 (2017) pp. 375-384, DOI: 10.1007/s10967-016-5046-4
- iii. Saha R., Deb A., Ghosh D., Study of phase transition and its dependence on target excitation using fractal properties of pionization process. Canadian Journal of Physics, 95 (2017) pp. 699-710, DOI: 10.1139/cjp-2016-0548
- iv. Chowdhury S., Deb A., Nurujjaman M., Barman C., Identification of pre-seismic anomalies of soil radon-222 signal using Hilbert–Huang transform. Natural Hazards 87 (2017), pp. 1587-1606, DOI: 10.1007/s11069-017-2835-1

- v. A. Naskar, M. Gazi, C. Barman, S. Chowdhury, M. Mondal, D. Ghosh, B. Singha, A. Deb, Estimation of underground water radon danger in Bakreswar and Tantloi Geothermal Region, India, *Journal of Radioanalytical and Nuclear Chemistry*. 315(2018) 273-283. <https://doi.org/10.1007/s10967-017-5668-1>
 - vi. Mitali Mondal, Arindam Mondal, Joyati Mondal, Kanchan Kumar Patra, Argha Deb and Dipak Ghosh, Evidence of Centrality Dependent Fractal Behavior in High Energy Heavy Ion Interactions: Hint of two Different Sources, *Chaos, Solitons & Fractals*, (In press, 2018)
 - vii. S. B. Ghosh, M. Mondal, A. Mondal, D. Ghosh, and A. Deb, Chaotic Multiparticle Production in Ring and Jet Structured Events in Heavy Ion Interaction: A Study in Multidimensional Phase Space, *Phys. Part. Nucl. Lett.* 15 (2018) 499–505.
 - viii. Bhoumik, G., Bhattacharyya, S., Deb, A., Ghosh, D., Evidence of forward-backward multiplicity correlation at SPS energy, *Int. J. Mod. Phys. E* 27(2018), 1850029.
 - ix. Das, B., Deb, A., Chowdhury, S, Radiological impact of some common foods of Southern Part of West Bengal, India, *Radiation Protection Dosimetry*, 179(2018), pp. 169-178
- C. Papers Presented in Conference:**
- i. **S. Chowdhury, C. Barman, A. Deb, D. Ghose, B. Sinha.** Soil Radon Exhalation Study in Bakreswar-Tantloi Geothermal Region of West Bengal and Jharkhand, India. 6th International Conference on Ecotoxicology and Environmental Sciences (ICEES-2018). Netaji Subhas Institute of Technology, New Delhi. 19-21 February, 2018.
 - ii. **Javed Akhter, Arindam Kumar Naskar, Saheli Chowdhury, Mitali Mondal, Argha Deb, Lalu Das,** Study Of Air Quality Under Future Emission Scenarios, Conference on Ecotoxicology and Environmental Sciences (ICEES-2018). Netaji Subhas Institute of Technology, New Delhi. 19-21 February, 2018.
 - iii. **Arindam Kumar Naskar, Javed Akhter, Saheli Chowdhury, Mitali Mondal, Argha Deb, Lalu Das,** Risk Assessment Of Radon In Drinking Water In & Around Susunia Hill Area, West Bengal, Conference on Ecotoxicology and Environmental Sciences (ICEES-2018). Netaji Subhas Institute of Technology, New Delhi. 19-21 February, 2018.
 - iv. **S. Chowdhury, A. Deb, C. Barman, D. Ghose, B. Sinha.** Study of Radon Exhalation from soil in Bakreswar Thermal Spring Region of West Bengal, India. 25th West Bengal State Science and Technology Congress, 2018. Science City Auditorium, Kolkata. 4-5 March 2018.
 - v. **S. Chowdhury, A. Deb, C. Barman, D. Ghose, B. Sinha.** Soil radon mapping of Bakreswar Geothermal Region of West Bengal. Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018.
 - vi. **Arindam Kumar Naskar, Javed Akhter, Mitali Mondal, Argha Deb,** The Influence of Meteorological Parameters on Radon Levels in Soil Gas, Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018.
 - vii. **Joyati Mondal, Mitali Mondal, Arindam Mondal, Soma Biswas Ghosh & Argha Deb,** Erratic Fluctuations in p-Pb Collisions at LHC Energy: A Monte Carlo Study , Recent Trend in Frontier Research in Physics (RTFRP-2018). Jadavpur University, Kolkata. 6 March, 2018.
- 5. Collaborative Programmes:**
- I. Jadavpur – N.I.T. Sikkim Collaboration
 - II. Jadavpur – Diphu Govt College Collaboration
 - III. Jadavpur - Bose Institute Collaboration

PLASMA STUDIES

[Department of Instrumentation Science]

Phone: 2414-6321

Int.: 2457- 2379/2378

Co-ordinator: Prof Anup Bandyopadhyay

E-mail: ps.centre@jadavpuruniversity.in

1. B. Number of Faculty Members:

No permanent Faculty Member.

Teachers, Researchers of participating

Departments, other Institutes, Colleges.

Participate in the activities of the Centre.

C. Participating Departments : Instrumentation Science, J.U.

Mathematics, J.U.

Physics, J.U.

D. Collaborating Institutes:

Collaborative Institute (International):

i) Universita Degli Studi de Milano-Bicocca (Italy)

ii) Centre Lasers Intenseset Application, University Bordeaux, France.

iii) University of North Carolina, Charlette (USA).

iv) Beijing Agricultural University(China)

Collaborative Institute (India):

i) Tata Institute of Fundamental Research (Mumbai).

ii) Saha Institute of Nuclear Physics (SINP), Kolkata, Plasma Division.

iii) Institute for Plasma Research, Gandhinagar.

iv) Indian Statistical Institute, Kolkata, Physics & Mathematics Unit.

v) University of Calcutta, Department of Applied Mathematics

2. A. Area of Research Activities (Jointly with Dept. of Instrumentation Science, Physics & Mathematics, JU)

i) Basic Plasma Physics : Linear & Non-linear wave processes.

ii) Laser Plasma interaction: Inertial confinement fusion (ICF) related collaborative theoretical & experimental programme.

iii) High Energy Density Plasma: Fluid Dynamics, Interfacial Fluid Instabilities applicable to ICF target and Astrophysics.

iv) Dusty Plasma.

v) Astrophysical Plasma.

2. B. Major Ongoing Research Project (Jointly with Dept. of Instrumentation Science & Mathematics, JU (Name of the Teacher–Title of the Project–Funding Agency)

Prof. M. Khan (PI) Prof. R. Bhar(Co-PI) Prof N.Chakrabarti (Co-PI) Prof Samiran Ghosh (Co-PI) Dr.Sachindranath Das(Co-PI) Time Dependent Nonlinear Structure in Plasmas in the Frame Work of Lagrangian Fluid Description CSIR, Govt. of India, Duration: 2017- 20

Prof. M. Khan (Co-PI) Prof. R. Bhar (PI) Prof.R.K.Roychaudhury (Co-PI), ACNCP & ISI(Ex), Kolkata Prof.Anup Bandyopadhyay Structural Properties and Astrophysical Application of Quantum Plasma SERB, Govt. of India, Duration: 2017-20

2. **C. Seminar/Workshop/Conference/Symposium Organized:***(Name of the Teacher, Name of, the Paper presented (if any) Name of the Seminar, Place, Duration)*

(Name of the Teacher acted as co-ordinator /Convener–Sponsored by–Name of Workshop/ Training Programme–Organized by–Duration)

Convener:Prof R. BharProf.Anup Bandyopadhyay–Centre for Plasma Studies, JU & CSIR Project –National Seminar on Nonlinear Processes in Physical and Biological Systems–Centre for Plasma Studies, Dept. Of Mathematics,JU, and ACNCP, Kolkata–March 16,2018

Convener:Prof R. BharProf.Anup Bandyopadhyay–Family members of Prof Gupta, Centre for Plasma studies and ACNCP, Kolkata–M. R. Gupta Memorial First National Seminar –Centre for Plasma Studies, JU, and ACNCP, Kolkata–August 4, 2017

3. **A. Invited Lecture Delivered/Charing a Session:** *(Name of the Teacher–Type of Seminar/ Workshop/Conference–Organizer/Place–Duration–No of days/Week)*

Prof M. Khan–Visiting Laboratories and delivered Lecture on Fluid Instabilities in Inertial Fusion Target–Space Research Division, University of Michigan, USA–October 15 – 16, 2017–2 days

Prof R.Bhar–National Workshop on ‘**Electron Microscopy and its Applications in Material Science and Biological Sciences**’.–Department of Instrumentation Science, Jadavpur University January 29-30, 2018–2 days

List of Publications in Referred Journals During 2017-18:

1. Nonlinear wave breaking in self-gravitating viscoelastic quantum fluid, **Aniruddha Mitra**, Rajkumar Roychoudhury, Radhaballav Bhar, **Manoranjan Khan**, Physics Letters A 381 (2017) 639–645.
2. Superfluid Boson–Fermion Mixture: Structure Formation and Collective Periodic Motion, **A. Mitra**, Journal of Low Temperature Physics 190.1-2 (2018): 90-99.
3. Modulational instability of ion acoustic waves in a multi-species collisionless unmagnetized plasma consisting of nonthermal and isothermal electrons, Sandip Dalui, **Anup Bandyopadhyay**, and K. P. Das, Phys. Plasmas (2017)24, 042305.
4. Existence and stability of alternative dust ion acoustic solitary waves in a dusty plasma consisting of nonthermal electrons having vortex-like velocity distribution, Sankirtan Sardar, **Anup Bandyopadhyay**, and K. P. Das, , **Phys. Plasmas** **24**, **063705** (2017).
5. Modulational instability of ion acoustic waves in a multi-species collisionless magnetized plasma consisting of nonthermal and isothermal electrons, Sandip Dalui, **Anup Bandyopadhyay**, and K. P. Das, **Phys. Plasmas** **24**, **102310** (2017).
6. Ion acoustic solitons, double layers and supersolitons in a collisionless unmagnetized plasma consisting of nonthermal electrons and isothermal positrons, A Paul and **A Bandyopadhyay**, **Indian J Phys.** **92**, **1187** (2018).
7. Chemical synthesis of nanoparticles of nickel telluride and cobalt telluride and its electrochemical applications for determination of uric acid and adenine, Susmita Pradhanan, Rashmita Das, Sudip Biswas, Dipak K Das, **Radhaballabh Bhar**, Rajib Bandyopadhyay, Panchanan Pramanik, Electrochimica Acta (2017) 238,185 - 193.
8. An efficient electrode for simultaneous determination of guanine and adenine using nano-sized lead telluride with graphene. S Pradhan, S Biswas, D.K. Das, **R. Bhar**, R Bandyopadhyay, P Pramanik, New, Journal of Chemistry, (2018), 42 (1), 564-573.
9. Control of interfacial layer growth during deposition of high ϵ oxide thin films in reactive RF-sputtering system., A.Rakshit, A.Bose, D.Biswas, M.Roy, **R. Bhar**, S.Chakraborty. Applied Surface Science(2017), 423,957 – 960.

QUALITY MANAGEMENT SYSTEM

[Department of Mechanical Engg.]

Int. : 2457-2488/2256/2582

Coordinator : Prof Sadhan Kumar Ghosh

E-mail : qms.centre@jadavpuruniversity.in

Major Research Project: (Departmental / Individual, Name of the Project/Funding agency).

International Research Projects (Funded) Ongoing - Prof Sadhan K Ghosh as Principal Investigator

- 1. European Union : Horizon 2020 Research projects from European commission (July 2018 – June 2022)** PI from Jadavpur University, Project Entitled, “ India H2O bio-mimetic and phyto-techNologies DesIgned for low-cost purific Action and recycling of water - Approved will be started soon. Project has 20 participating organizations fro eight countries- India, UK, Denmark, Singapore, Spain, Netherlands and Israel. Prof Sadhan K Ghosh is as Principal Investigator at Jadavpur University.
- 2. Asian Productivity Organisation (APO), Japan and China Productivity Council, Taiwan** (May 2016 – continued) : **Research Project**, “Green Productivity for the Base of the Pyramid for Sustainable Development in APO Member Countries”. Lead Partner : National Taipei University of Technology, Taiwan; Partners : India, represented by Jadavpur University; Central Institute for Economic Management, Vietnam; National Environment Board, Thailand Ministry of Natural Resources and Environment; PT Aicón Global Indonesia, Indonesia; Malaysia Productivity Corporation (MPC), Malaysia; William Davidson Institute at the University of Michigan; USA; Funding Agencies : APO, Japan and CPC, Taiwan – 30,000 USD.

Collaborative International Research Projects (Non-Funded) Ongoing - Prof Sadhan K Ghosh as Principal Investigator

- 1. UNCRD, ISWMAW, CRIC (Consortium of researchers in international collaboration) Research Project :** International Collaborative Research Project on, “Global Status of implementation of Circular Economy” (2018-2021), participated by experts as country leaders from thirty four countries. Prof Sadhan K Ghosh is the Project Leader. Prticipating countries : India, Austria, Australia, Bangladesh, Brazil , Canada, China, Egypt, Ecuador, Germany, Indonesia, Israel, Italy, Japan, Kenya, Lebanon, Lao DPR, Malaysia, ,Mauritius , New Zealand, , Norway, Nigeria, Netherlands, Rep. of Korea, Rep. of South Africa, Russian Federation, Serbia , Samoan Islands, Soudi Arabia, Sri Lanka, Thailand, UNCRD; Japan, USA , U and Vietnam.
- 2. International Collaborative Research Project (2018-2019) on E-waste Management :** “E-waste management in the Asia and the Pacific Countries” - Project Leader : Prof. Sadhan K Ghosh, Other participating University: Tsinhua University, China; University of Malaya, Malaysia, Kyonggi University, S. Korea, Griffith University, Australia and Center for Material Cycles and Waste Management Research, Japan.
- 3. India & Italy :** Collaborative Research Project on “Sustainable Development Goals – Realisation in Global Perspective” (June 2016 – December 2019) : Partners : Jadavpur University, India; LAR⁵ Laboratory – Dipartimento di Ingegneria, University of Perugia, Perugia, Consortium of Researchers in International Collaboration (CRIC) and International Society of Waste Management, **Air and Water (ISWMAW).**

Invited Lectures Delivered / Session Chaired (2018-19)

Lectures delivered in foreign Countries by Prof. Sadhan K. Ghosh

Foreign Countries

1. Japan : Invited by the UNCRD/UN DESA, delivered the speech on the inputs on 3R in India on June 24-25, 2017 in Tokyo in the UNCRD meeting.
2. USA, The Opening Plenary Speech in Annapolis, Maryland, Washington DC : on “Zero Waste, Zero Landfill”, in the Thirty Third International Conference on Solid Waste Technology and Management, by Widener University, USA held during March 19-22, 2018.
3. **China, Tsinghua University, China** : Plenary Speech on “Bio Waste Management in India, SBM and Legislative Support” in International Conference on Waste Management and Technologies” in Beijing, during March 22-24, 2018.
4. **Indonesia** : Conducted Seminar on Sustainable Development during March 26-27, 2018 at the Walisongo, Islam University in Semarang invited by Walisongo, University in Semarang, Indonesia.
5. **Indonesia** : Conducted workshop on “*Writing Research Articles*” on March 28, 2018 at the Walisongo, Islam University in Semarang invited by Walisongo, University in Semarang, Indonesia for the teachers and research scholars.

In India

6. **Ranchi**: Delivered speech on “*SWM Rules 2016 and its implementation*” at the Community Hall, Ranchi, invited by the CPCB & NPT, Govt of India, organised by CPCB & MoHUA, Govt of India in May 2017.
7. **Bhubaneswar** : Delivered speech on “*SWM Rules 2016 and its implementation*” at the Bhubaneswar, invited by the CPCB & NPT, Govt of India, organised by CPCB & MoHUA, Govt of India in August 2017.
8. **Bhubaneswar, August 2017** : Delivered Keynote speech on “*Smart City- Sustainable Urban Management, SWM Rules 2016 and its implementation*” at the Mayfair Hotel, Bhubaneswar, invited and organised by by the University of Heidelberg University, Germany & Consul General of Germany at Delhi.
9. **Kolkata , ATI** : April 12, 2017 : Invited speaker for the Workshop for C&D Waste Management and its implementation at municipal level at the ATI, Salt Lake organised by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH..
10. **Kolkata, JU** : April 11, 2017 : Speaker for “*Entrepreneurs on C&D Waste Processing and Utilization*: at Jadavpur University organised by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and CQMS, JU and ISWMAW.
11. **Hyderabad** : Spoke in the inaugural and valedictory programme of the 7th IconSWM held at PJTS Agricultural University, Hyderabad, Telangana during December 15-17, 2017.

Session Chaired: (*Description–Date–Venue*)

Chaired the Technical Session in the Thirty Second International Conference on Solid Waste Technology and Management, Philadelphia, Widener University, USA held during March, –2018 March 2018 –Annapolis, Maryland, Washington DC USA

Chaired the 7th International Conference on Solid Waste Management, 7th IconSWM held at PJTS Agricultural University, Hyderabad, Telangana during December 15-17, 2017. –December 15-17, 2017–PJTS Agricultural University, Hyderabad, Telangana

Chaired Technical Session in the China, Basel Convention Regional Centre for Asia and the Pacific, Beijing, March 2018–March 2018–Tsinghua University, China

Chaired Technical session in 6th International Conference on SWM held at Jadavpur University, by

the CQMS, JU, IISc Bangalore, IIT Kgp, TERI & International Society of Waste Management, Air and Water (ISWMAW) –on 25th November 2015 –Gandhi Bhaban, Jadavpur University

Chaired the Technical Session in the 32nd International Conference on Solid Waste Technology and Management, Philadelphia, Widener University, USA held during March 19-22, 2017.–March 21, 2016–The Warwick Hotel, Philadelphia, USA

Chaired the CRIC meeting (Consortium of Researchers in International Collaboration) attended by 21 countries at USA.–March , 2018–Annapolis, Maryland, Washington DC USA

Conference Attended by Prof Sadhan K Ghosh

1. Thirty Second International Conference on Solid Waste Technology and Management, Philadelphia, Widener University, USA held during March, 2018, AT **Annapolis, Maryland, Washington DC**
2. 13th International Conference on Waste Management and Technology at Beijing, China during mARCH 22-24, 2018 by Basel Convention Regional Centre for Asia and the Pacific, Tshinhua University, Beijing.
3. 7th International Conference on Solid Waste Management, 7th IconSWM 2016 at PJTS Agricultural University, Hyderabad, Telangana, India, by International Society of Waste Management, Air and Water (ISWMAW), CQMS, Jadavpur University, TERI, IIT Kgp., IISc Bangalore and KWSA, JSMCWM.
4. 3R Forum on Asia Pacific organized by UNCRD and Govt of Australia, during November 2-4, 2016 at Adelaide Convention Centre, Adelaide, SA, Australia.

Seminar / Conference / Symposium Organized by Prof Sadhan K Ghosh

1. 7th International Conference on Solid Waste Management, 7th IconSWM 2016 at PJTS Agricultural University, Hyderabad, Telangana, India, by International Society of Waste Management, Air and Water (ISWMAW), CQMS, Jadavpur University, TERI, IIT Kgp., IISc Bangalore and KWSA, JSMCWM.
2. C&D Waste Management, Processing and Utilization: at Jadavpur University organised by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and CQMS, JU and ISWMAW on April 11, 2017.
3. WED (World Environment Day) Celebration Workshop On 5th June 2017 :.Introducing the segregated collection system at Jadavpur University. Inaugurated the 3Bin System for waste Segregation in Jadavpur University.
4. Indo - Taiwan Workshop on 12th August by CQMS, JU and Fu Jen Catholic University.

Publications by Prof Sadhan K Ghosh

Published in International Journal During 2017-18

1. Francesco Di Maria, Federico Sisani, Stefano Contini, **Sadhan K. Ghosh**, (2018). Impact of different schemes for treating landfill leachate, Waste Management 71 (2018) 255–266.
2. Anaya Ghosh, Biswajit Debnath, **Sadhan Kumar Ghosh**, Bimal Das, Jyoti Prakas Sarkar (March 2018) , Sustainability analysis of organic fraction of municipal solid waste conversion techniques for efficient resource recovery in India through case studies, Journal of Material Cycles and Waste Management (2018) 20:1969–1985; <https://doi.org/10.1007/s10163-018-0721-x>Received: 17 June 2017 / Accepted: 23 February 2018 / Published online: 9 March 2018 (**Impact Factor: 1.604**).
3. Dasgupta, Raktim & Mukhopadhyay, Arup & **Ghosh, Sadhan**. (2017). Reduction of lead time through curtailment of cycle time of a supplier-a case example. International Journal of Engineering Trends and Technology. Vol. 54. 233-251. 10.14445/22315381/IJETT-V54P233.

4. Debnath, B., Chowdhury, R., **Ghosh, S. K.** (2018). Sustainability of metal recovery from e-waste. *Frontiers in Environmental Science and Engineering*, 12(6):2. (DOI: 11007/s11783-018-1044-9) (**Impact Factor: 1.716**) [Online publication awaited].

Conference Proceeding 2017-18

1. **Sadhan Kumar Ghosh, (2018)**, Zero Waste and Zero Landfill, Proceedings of the 33rd International Conference on Solid Waste Technology and Management, Widener University, Annapolis, USA, March 11-14, 2018.
2. Debnath, B., Banerji., A., Chowdhury., R. & **Ghosh, S.K.** (2018). *Kinetic Studies on FR-4 type Waste Printed Circuit Board (PCB) Pyrolysis*. Recycle 2018, 2nd International Conference on Waste Management. IIT Guwahati, India, 22-24 February, 2018.
3. Debnath, B., **B.**, Chowdhury., R. & **Ghosh, S.K.** (2018). *Recycling of WEEE Polymers: Issues, Challenges and Opportunities*. International Conference on Advanced Polymeric Materials (APM 2018), pp. 196, CIPET, Bhubaneswar, India, 2-4 February, 2018.
4. Debnath, **B. Ghosh, S.K.** (2018). *Sustainable utilization of Polymeric Materials recovered from E-waste*. International Conference on Current Trends in Materials Science and Engineering (CTMSE 2018), pp. 101, Hyderabad, India, 19-20 January, 2018.
5. Debnath, B., Chowdhury., R. & **Ghosh, S.K.** (2017). *Studies on sustainable material recovery via Pyrolysis of WEEE*. Indian Chemical Engineering Congress (Chemcon 2017) pp. 31-33, Haldia, India, 27-30 December, 2017.
6. **Sadhan K. Ghosh**, F. Di maria (2017), A comparative study of issues, challenges and strategies of bio-waste management in India and Italy, Sardinia_2017, 16th International Waste Management and Landfills Symposium, S. Margharita De Pula (CA), Italy, October 206, 2017.
7. Debnath, **B. B.**, Ghosh., A. & **Ghosh, S.K.** (2017). *Sustainability of MSW treatment technologies in India*. Indian Chemical Engineering Congress (Chemcon 2017) pp. 10-12, Haldia, India, 27-30 December, 2017.
8. Debnath, B., Chowdhury., R. & **Ghosh, S.K.** (2017). *Supply Chain Analysis for Metal Recovery from E-Waste (MREW) Facility focusing on Pyrolysis as a pre-treatment process*. 7th International Conference on Solid Waste Management (7thIconSWM), pp. 1125 – 1131, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)
9. Debnath, B., **Ghosh, S.K.** (2017). *A Generalised Discussion on Hydrogen Generation from Biorefinery Waste Streams from the Perspective of Sustainability*. 7th International Conference on Solid Waste Management (7thIconSWM), pp. 244, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)
10. Debnath, B., Alghazo, J.M., Latif., G., Roychoudhuri, R., & **Ghosh, S.K.** (2017). *An analysis of Data Security and potential threat from IT assets for Middle Card players, Institutions and Individuals*. 7th International Conference on Solid Waste Management (7thIconSWM), 1057-1070, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)
11. Debnath, B., Ghosh, A., Prathima., B., Birawat, K., & **Ghosh, S.K.** (2017). *Status of Composting for OFMSW treatment in Karnataka and West Bengal: Case Studies and Sustainability*. 7th International Conference on Solid Waste Management (7thIconSWM), 1432-1442, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)
12. Dutta, N., Ghosh, A., Debnath, B., & **Ghosh, S.K.** (2017). *Climate Change in Hilly Regions of India: Issues and Challenges in Waste Management*. 7th International Conference on Solid Waste Management (7thIconSWM), 1443-1452, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)
13. Debnath B., Roychoudhuri., R., and **Ghosh S. K.**, *Risk Assessment of E-waste Recycling with a focus on ISO 9000 Standard*. 7th International Conference on Solid Waste Management

- (7thIconSWM), 1175-1182, Hyderabad, India, 15-17 December, 2017. (**Publication in Springer Book Chapter Awaited**)
14. Debnath, B., & **Ghosh, S.K.** (2017). *Sustainability of Energy generation from Biorefinery Waste*. International Conference on Energy Options for Tomorrow: Technology to Sustainability (ICEOT 2017), Eco Vista, Kolkata, India, 17-19 April, 2017, pp.164-176.
 15. Baidya, R., Saha, I., Bhattacharya, T., **Ghosh, S. K.**, (2018), Supply chain robustness of waste transportation in Kolkata using DBMS and Image sensing. Innovative Digitization Techniques towards Mission Digital India – (IDT-MDI, 2018), 12th-13th January 2018.
 16. Mukherjee, T., Baidya, R., **Ghosh, S. K.**, (2018), Model for Prediction of MSW Generation in India Using Artificial Neural Network (ANN), Innovative Digitization Techniques towards Mission Digital India – (IDT-MDI, 2018), 12th-13th January 2018.
 17. Baidya, R., **Ghosh, S. K.**, & Parlikar, U. V. (2017). Blast Furnace Flue Dust Co-processing in Cement Kiln – A Pilot Study, IconSWM – 2017, Hyderabad, 15 – 17, December. . (Publication in Springer Book Chapter Awaited)
 18. Baidya, R., Bhattacharya, T., Kumar, G., **Ghosh, S.K.**, Decentralised Utilization of Urban Biomass Waste and Solar Energy for Cooling System – A Proposed Model, IconSWM – 2017, Hyderabad, 15 – 17, December. . (Publication in Springer Book Chapter Awaited)
 19. Dutta, K., Baidya, R., **Ghosh, S.K.**, (2017) NDT Process Selection in Petrochemical Construction Site through Strategic Application of the Analytical Hierarchy Process, International Conference on Energy Options for Tomorrow: Technology to Sustainability (ICEOT 2017), 17 – 19 April 2017, Kolkata, India, pp 100-106.
 20. Mukherjee, T., Baidya, R., **Ghosh, S. K.**, (2018) Model for Prediction of MSW Generation in India Using Artificial Neural Network (ANN). The 33rd International Conference on Solid Waste Technology and Management, USA, March 11-14, 2018.
 21. Ipsita Saha, Amit Kundu, **Sadhan Kumar Ghosh** ” Exploring the rationale between ERP and EPR in Asian Countries using cloud based Approach” Accepted and invited for oral presentation at 7th International Conference on Solid Waste Management at PJTSAU, Hyderabad, Telenganaon 15th -17th December, 2017 (**Publication in Springer Book Chapter Awaited**).
 22. Ipsita Saha, Amit Kundu, **Sadhan Kumar Ghosh** ”Organizational Perspective of Critical Success factor to establish ERP as a Sustainable Solution” at 11th ISDSI International Conference at Indian Institute of Management Tiruchirappalli on December 28 – 30, 2017.
 23. Ipsita Saha, AmitKundu, **Sadhan Kumar Ghosh**”Cloud Computing Based Sustainable Approach towards E-waste Management in India” Accepted and invited for oral presentation at International Conference on Waste Management “RECYCLE-20183 at Indian Institute of Technology Guwahati, Guwahati, India on 22-24 February, 2018.
 24. Ipsita Saha, Amit Kundu, **Sadhan Kumar Ghosh** ”Exploring the rationale between ERP and EPR in Asian Countries using cloud based Approach” is selected for the book chapter publication being published by Springer with book title: “Sustainable Waste Management : Policies and Case Studies”, 7th IconSWM – ISWMAW 2017, Volume 1

Books as Editor

Edited volume /Int. Journal as Chief Editor / Editor / Associate Editor by Prof Sadhan K Ghosh In Progress:

1. **Chief Editor** : Proceedings of 7th IconSWM I in Two Volumes, in December 2017

Annual Report 2017-18

2. **Associate Editor, Special issue** of International Journal of Materials Cycle and Waste Management, Member Technical Committee of 4th 3RINCs, April 2017.
3. **Appointed the Editor** of the Book, “Waste Management and Resource Efficiency”, Proceedings of 6th IconSWM 2016, in publication due in Sept 2018; Springer Publication, ISBN 978-981-10-7290-1;
4. **Appointed the Editor** of the book volume : Sustainable waste management: Policies & Case Studies : Proceedings of 7th IconSWM 2017, Due in Dec 2018, Springer Publication.
5. **Appointed the Editor** of the book volume :Waste Water Recycling and Management: Proceedings of 7th IconSWM 2017, Due in Dec 2018, Springer Publication.
6. **Appointed the Editor** of the book volume : Waste Valorisation and Recycling Technology : Proceedings of 7th IconSWM 2017, Due in Dec 2018, Springer Publication.

Outstanding Achievement of Prof Sadhan Kumar Ghosh in 2017-18:

1. **European Union : Horizon 2020 Research projects from European commission (July 2018 – June 2022)** : Received the Horizon 2020 Project Entitled, “ India H₂O bio-mimetic and phyto-techNologies DesIghned for low-cost purfic Action and recycling of water - Approved will be started soon. Project has 20 participating organizations fro eight countries- India, UK, Denmark, Singapore, Spain, Netherlands and Israel. Prof Sadhan K Ghosh is as Principal Investigator at Jadavpur University.
2. **International Expert of UNCRD** (United Nations Centre for Regional Development) : Consultant of UNCRD/ DESA for preparation of the country document on the “3R status in India” for publication of the book SUPPORTED BY iejs, and Ministry of Environment, Japan.
3. **Invited & delivered the Opening Plenary Speech in Philadelphia, USA in 32nd** International Conference on Solid Waste Technology and Management, on “3R and Circular Economy in Waste Management”, by Widener University, USA held during March , 2018.
4. **Selected as the Chairman**, 8th International Conference on Sustainable Waste Management, 8th IconSWM 2018 to be held at Acharya Nagarjuna University, Vijayawada, India to be held during November 22-24, 2018 organised by the Government of Andhra Pradesh, ISWMAW, IISc, CRIC, CQMS JU, KSWA , TERI, APPCB and JSMCWM.

SIR C.V.RAMAN CENTRE FOR PHYSICS AND MUSIC

[Department of Physics]

Int. : 2457-2352

Coordinator : Prof Argha Deb

E-mail : cvrcpm.centre@jadavpuruniversity.in

1. B. Number of Faculty Members : 1 (one)

2. A. Area of Research Activities:

- Effect of music and noise on autonomous nervous system
- A neuro-physical study on Music cognition and the brain
- Study of the melodic, rhythmic and emotional characteristics of music
- Studies of stochastic, chaotic and fractal behavior of speech and music signals
- Study on the phonetic quality and articulation patterns in Indian music visa-a-vi speech

- Study on the alankars in Indian classical music, namely, Taan, Meend, etc.
- Study on the Musical scales, consonance and dissonance, shrutis and the intervals used in the Indian classical music performance
- Study on Nasality in speech and music, the acoustic and perceptual cues of nasality, the degree of nasality and effect of nasality
- Study on the improvisation in different forms of Indian music
- Study on the Rhythm, tempo and styles in Indian music
- Analysis of different nuances of Indian music for finding out the features for estimating the physical correlates of musical terminologies
- Feature extraction and study on the Timbre and prosodic characteristics of vocal and instrumental music.
- Modeling of emotion based on Hilbert space.
- Music, meditation and consciousness.

2. B. Major Research Projects :

Department of Science and Technology, Govt. of West Bengal sanctioned a R & D project “**Neuro-cognitive physics approach to study music induced emotion using bio-sensors**”.

Principal Investigator: Prof. Dipak Ghosh, Emeritus Professor, Sir C.V. Raman Centre for Physics and Music, Jadavpur University

Co-Principal Investigator: Prof. Kumardeb Banerjee, Professor, Department of Instrumentation and Electronics Engineering, Jadavpur University

Project Duration: 2 years

3. A. Invited Lectures Delivered/ Session Chaired:

- Invited lectures were delivered by Prof. Dipak Ghosh, Emeritus Professor of the Centre in and around Kolkata on Emotions in music and its processing in the brain.

3. B. Seminar/Workshop/Conference/Symposium Attended:

1. Shankha Sanyal, Research Fellow of the Centre presented a Paper in *National Symposium on Acoustics (NSA - 2017), October 28-30, 2017, Aligarh Muslim University, Aligarh, India*
2. Archi Banerjee, Research Fellow of the Centre presented a Paper in *West Bengal State Science and Technology Congress, December 14,15 2017, Kalyani University*
3. Shankha Sanyal, Archi Banerjee, Souparno Roy, Kaushik Banerjee, Anirban Patranabis, Madhuparna Gangopadhyay, members of the Centre presented 8 papers in the *International Symposium FRSM-2017* held at NIT, Rourkela Orissa during 15-16 December, 2017

3. C. Seminar/Workshop/Conference/Symposium Organized:

International Symposium on “Frontiers of Research on Speech Music: FRSM-2017” with special theme “*Computing, Signal Processing and Communication Technology in Speech and Music*” **was organised** jointly with NIT, Rourkela Orissa during 15-16 December, 2017 at National Institute of Technology, Rourkela, Orissa. The symposium was attended by many scientists and academicians. The proceeding of the symposium was published (CD version). The research scholars of the centre presented papers in the symposium. Local media gave sufficient coverage about the symposium.

4. A. Books/Monographs etc. Published :1

A book entitled ‘Musicality of Human Brain through Fractal Analytics’ authored by Dipak Ghosh,

Ranjan Sengupta, Shankha Sanyal and Archi Banerjee was published by *Springer Nature Singapore Pte Ltd. 2018; ISBN: 978-981-10-6511-8; https://doi.org/10.1007/978-981-10-6511-8*

4. B. Papers Published During the Period :

a) Conference:

1. Sayan Nag, Sayan Biswas, Sourya Sengupta, Shankha Sanyal, Archi Banerjee, Ranjan Sengupta, and Dipak Ghosh **Can Musical Emotion Be Quantified With Neural Jitter Or Shimmer? A Novel EEG Based Study With Hindustani Classical Music**, *Proc. of IEEE "International Conference on Signal Processing & Integrated Networks"*, *SPIN 2017* (pp. 358-363). *IEEE; doi: 10.1109/SPIN.2017.8049974*
2. Sourya Sengupta, Sayan Biswas, Sayan Nag, Shankha Sanyal, Archi Banerjee, Ranjan Sengupta, and Dipak Ghosh. **Emotion Specification from Musical Stimuli: An EEG Study with AFA and DFA**, *Proc. of IEEE "International Conference on Signal Processing & Integrated Networks"*, *SPIN 2017* (pp. 596-600). *IEEE; doi: 10.1109/SPIN.2017.8050019*
3. Uddalok Sarkar, Soumyadeep Pal, Sayan Nag, Shankha Sanyal, Archi Banerjee, Souparno Roy, Ranjan Sengupta² and Dipak Ghosh **A Simultaneous EEG and EMG study to quantify emotions from Hindustani Classical Music**, *Proc. of National Symposium on Acoustics (NSA - 2017), October 28-30, 2017, Aligarh Muslim University, Aligarh, India*
4. Sayan Nag, Shankha Sanyal, Archi Banerjee, Ranjan Sengupta and Dipak Ghosh **Sonification of Acoustical Stimuli Induced EEG Signals: A Cross Correlation Study bridging Physics, Music And Brain**, *Proc. of the West Bengal State Science and Technology Congress, December 14-15, 2017, Kalyani University*
5. Sayan Nag, Shankha Sanyal, Archi Banerjee, Ranjan Sengupta and Dipak Ghosh, **Music Of Brain And Music On Brain: A Novel EEG Sonification Approach**, *Proc. of International Symposium FRSM-2017, December 15-16,, 2017, NIT, Rourkela, India*
6. Archi Banerjee, Shankha Sanyal, Ranjan Sengupta and Dipak Ghosh, **A Nonlinear Study on The Timbre Dependence of Emotion**, *Proc. of International Symposium FRSM-2017, December 15-16, 2017, NIT, Rourkela, India*
7. Anirban Patranabis, Kaushik Banerjee, Ranjan Sengupta and Dipak Ghosh, **Distinguishing Styles of Maestros of Hindustani classical music from melodic contour**, *Proc. of International Symposium FRSM-2017, December 15-16, 2017, NIT, Rourkela, India*
8. Kaushik Banerjee, Anirban Patranabis, Ranjan Sengupta and Dipak Ghosh, **Features for style Identification of Hindustani musicians**, *Proc. of International Symposium FRSM-2017, December 15-16, 2017, NIT, Rourkela, India*
9. Anuradha Roy, Souparno Roy and Dipak Ghosh, **Neuro-Aesthetic study on the Association of 'rasa's and colors in human brain in perspective of Indian classical Dance: Do emotions need a new governing paradigm?**, *Proc. of International Symposium FRSM-2017, December 15-16, 2017, NIT, Rourkela, India*

b) arxiv preprint:

10. Budhaditya Ghosh, Sourya Sengupta, Sayan Nag, Sayan Biswas and Shankha Sanyal, **Comparative Analysis of Non-linear Behaviour with Power Spectral Intensity Response Between Normal and Epileptic EEG Signals**, *bioRxiv* (2017): 173518.

6. Major Achievements :

- Prof. Dipak Ghosh, Emeritus Professor of the Centre was awarded the prestigious Tagore Research Scholarship by Ministry of Culture, Govt. of India

SRI AUROBINDO STUDIES

[Department of Philosophy]

Int. : 2457-2358/2638

Coordinator : Prof Aparajita Mukhapadhyay

E-mail : sas.centre@jadavpuruniversity.in

The Department of Philosophy, Jadavpur University has set up a Centre for Sri Aurobindo Studies under the UGC program of **Epoch Making Social Thinkers of India** in the year 2005. Centre has received the UGC approval and financial assistance from 2005 to XII Plan period. From its inception the aim of the Centre was to explore the philosophical, spiritual thought of Sri Aurobindo to understand the tradition of India and to salvage its necessity in present social scenario. Apart from his participation in National movement, his spiritual activities helped him to transcend the boundary of the nation. His spirituality shows the way to widen our outlooks by rejecting all types of morbid impositions. Centre focuses upon Sri Aurobindo's modern outlook, his catholic, comprehensive but analytic approach, his secular but outright nationalist outlook, his practical, humanistic attitude.

To celebrate the auspicious occasion of Sri Aurobindo's birth ceremony every year we organize Sri Aurobindo Memorial lecture. The **Thirty Fourth Sri Aurobindo Memorial lecture** has taken place on 29th August 2017. Professor Indrani Sanyal, Former Professor of Philosophy, Jadavpur University and the first coordinator of the Centre delivered lecture on 'Was Sri Aurobindo an author of history or himself a creation of history?'

Centre conducts a **weekly study group** to discuss the philosophy of Sri Aurobindo. Its aim is to spread the interest of the students and scholars about Sri Aurobindo's thought. Our faculty, teachers from different colleges and universities, students and research scholars participate in this group. Dr Soumitra Basu, Department of Philosophy, Jadavpur University is now taking classes in this group.

STUDY OF RELIGION AND SOCIETY

[Department of Sociology]

Int. : 2457-2555

Jt. Coordinators: Dr. Piyali Sur

Dr. Manojit Mandal

Academic Advisor :Prof. Ruby Sain

1. A. Courses Offered:

ONE YEAR PG DIPLOMA COURSE IN SOCIETY, RELIGION AND SOCIAL WORK (Evening) at Centre for the Study of Religion and Society.

2. A. Area of the Research Activities.:

Sociology of Religion.

Religion & Health / Aging/ Gender/ Media/ Ecology Etc.

2. B. Major Research Project :

Completed Project on 'COMPARATIVE STUDY OF RELIGIONS', funded by MHRD through UGC under NME-ICT.

ARTICLES PUBLISHED IN JOURNALS & BOOKS

1. Contemporary Social Problems in India-Vol-II by Prof.Ruby Sain in January 2018.
2. Higher Education, Universities and Excellence: The Bengal Narrative by Dr. Manojit Mandal in December 2017.

5. Collaborative Programmes:

Completed Global Project on Religion among Young People in collaboration with Prof .Peter Nynas, Department of Religious Studies, funded by University of Abo Academy, Finland, 2013-2018.

TRANSLATION OF INDIAN LITERATURES (CENTIL)

[Department of Comparative Literature]

Int. : 2457-2223

Coordinator: Dr. Sayantan Dasgupta

Jt. Cordinator : Shradhanjali Tamang

E-mail : til.centre@jadavpuruniversity.in

1. A. Courses Offered:

‘Translation as a Skill’ session 2017-18, Six month certificate course, 20 students were enrolled, Course Coordinator: Shradhanjali Tamang.

1. B. Number of Faculty Members: 2

2. A. Area of Research Activity: Translation of Indian literatures

2. B. Major Research Projects: (Departmental/Individual, Name of the Project/Funding Agency)
Project Anuvad (UGC UPE 2: CR&SS). Principal Investigator: Sayantan Dasgupta

3. A. Invited Lectures Delivered / Sessions Chaired: (*Name of the Teacher, Type of Participants, name of the Seminar/Conference etc, Place, Duration*)

Sayantan Dasgupta:

1. “Travelling with Tintin” on November 15, 2017. UGC-HRDC, Jadavpur University, and Department of Comparative Literature, Jadavpur University, “Winter School on Literature and the Other Arts” (6 Nov to 25 Nov, 2017).
2. Resource Person for CAS Phase III Workshop on “Comparative Literature: Tracing Journals in India and the World” (23-24 March, 2018).
3. Chaired a session at the International Conference on 150 Years of Solitude: Narratives on Canada’s Conflicts and Reconciliations, Centre for Canadian Studies, Jadavpur University, 9-11 January, 2018.
4. “Comparative Literature in India”. Invited paper at National Seminar on “Indian Comparative Literature”, Presidency University, February 7, 2018.
5. Keynote Lecture at “Stylistics and Translation” workshop at Adamas University, 20 February, 2018.
6. Invited talks and presentations at the Workshop on Humanities in India at the University of East Anglia, UK, March 28 and 29, 2018.

Shradhanjali Tamang

1. Lecture on ‘Translation: Concepts, Necessities and Challenges’ at Meet the Authors Program, Department of Nepali Language and Literature, Sikkim Central University, April, 2017.
 2. Discussant for the film screening of ‘Whale Rider’ with Dr. Peter Keegan, Te Puna Wananga Faculty of Education and Social Work University of Auckland, Centre for Canadian Studies, Dept of Comparative Literature, August, 2017.
- 3. B. Seminar/ Workshop/Conference/Symposium Attended: (Name of the Teacher, Name of the Paper Presented, Name of the Seminar, Place, Duration)**

Shradhanjali Tamang

1. Participated as a resource person in National-level ‘Workshop for Literary Translation’, organized by Salesian College Sonada in collaboration with Centre for Translation of Indian Literatures (CENTIL), Jadavpur University, June 27-29, 2017.
2. Participated as a resource person in state-level ‘Literary Translation Workshop on Contemporary Indian Bhasha Literature’, organized by Centre for Translation of Indian Literatures (CENTIL), Jadavpur University in collaboration with Department of English, Shri Shikshayatan College, Kolkata, August 25, 2017.
3. Participated as a Language resource person in the workshop on ‘Contemporary Indian Nepali-Language writing’, organized by the Centre for Translation of Indian Literatures (CENTIL), Jadavpur University, September 14, 2017.
4. Participated as a Language resource person in a seven day ‘Chandrika workshop II’, organized by Project Anuvad (UGC UPE Phase 2) and the Centre for Translation of Indian Literatures (CENTIL), Jadavpur University, January 15-21, 2018.

3. C. Seminar/ Workshop/Conference/Symposium Organized: (Name of the Teacher, Name of the Paper Presented, if any, Name of the Seminar, Place, Duration)

1. Sayantan Dasgupta. “National-Level Workshop for Literary Translation 2017”. Organised by CENTIL, Project Anuvad (UGC UPE2: CR&SS), and Salesian College. Siliguri: June 27 to 29, 2017.
2. Sayantan Dasgupta. Coordinator, Two-day Translation Workshop on “Translating Rabindranath’s Essays on Sahitya” (*Adhunik Sahitya*). Project Anuvad (UGC UPE2: CR&SS) in collaboration with Centre for Comparative Literature, Visva-Bharati. March 16 and 17, 2018.
3. Sayantan Dasgupta. Coordinator. Debrupa bal Memorial National Students’ Seminar 2018. March 20 and 21, 2018.
4. Sayantan Dasgupta. Coordinator. “Literary Translation: An Orientation Workshop”. CAS Phase 3, Department of Comparative Literature, Jadavpur University, March 28, 2018.
5. “Literary Translation Workshop on Contemporary Indian Bhasha Literatures”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS with Shri Shikshayatan College, Kolkata, August 25, 2017.
6. CAS III Workshop on “Comparative Literatures: Texts, Contexts and Concepts”, CAS III with CENTIL, August 29-31, 2017.
7. Workshop on “Contemporary Indian Nepali-Language Writings”, organized by the CENTIL under Project Anuvad, UGC-UPE 2: CR&SS on September 14, 2017 (for publication in *Bhashabandhan*).
8. “Writing Places” Project, CENTIL with Writers’ Centre Norwich and BCLT, University of East Anglia, October 2 to December 11, 2017
9. “Translation: An Orientation Workshop for Nepali-Speaking Students of Jadavpur University”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, November 3, 2017.
10. “Chandrika Preliminary Translation Workshop”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, November 28, 2017 – December 20, 2017.

11. International Workshop on “Latin American and South Asian Cross Cultural Transactions: From Text to Performance”, CSLALC with CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, January 11, 2018.
12. “Chandrika Translation Workshop II”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, January 15, 2018 – January 21, 2018.
13. Translation Workshop on “Gandhi in Bangla Literature”, CENTIL under Project Anuvad, UGC-UPE 2: CR&SS, March 9, 2018.

3. D. Orientation Courses/ Refresher Courses Attended: (Name of the Teachers, Title of the Course, Duration, Place)

Shradhanjali Tamang

1. Attended the GIAN (Global Initiative of Academic Networks) course on ‘Radical Aesthetics in Third World Cinema: The Case of Latin America (176025F01)’ organized by Department of Film Studies, Jadavpur University, 8-15 December, 2017.

4. A. Books/Monographs etc. Published: (Name of the Teacher, name of the book, Name of the Publisher)

1. Sayantan Dasgupta ed. (with Tapati Mukhopadhyay) April 2017. *Khristo (Christ): An Annotated Anthology (2nd edition)*. Kolkata: Granthan Vibhaga, Visva-Bharati.
2. Sayantan Dasgupta ed. (with Nilanjana Bhattacharya). April 2017. *Pracin Sahitya by Rabindranath Tagore: Annotated English Translation and Critical Essays*. Kolkata: Granthan Vibhaga, Visva-Bharati.
3. *Khristo* in Nepali Translation published by Salesian College, Siliguri.

4. B. Articles Published in Journals: (Including National/International & Peer-Reviewed Journals) (Name of the Teacher, Name of the Articles, name of the Journal, date of Publication, Volume)

Sayantan Dasgupta

1. “Comparative Literature in India” in Dorothy Figueira and Chandra Mohan eds., *Literary Culture and Translation: New Aspects of Comparative Literature*. Primus, 2017.
2. “Locating Krishnabhavini Das: From Bengal to England via France” in *Comparatism as a Critical Approach* Volume 5 (Anne Tomiche ed.), Paris. 2017.

Shradhanjali Tamang

1. Translated short story ‘Kakakuli ko Shahar’ (with Rupak Ghosh) in *Bhashabandhan*, Barnani Prakashan, Kolkata, Vol 16, 1-2 (January-June) 2018.

5. Collaborative Programmes:

With Salesian College, Siliguri, Shri Shikshayatan College, Kolkata, University of East Anglia, UK.

6. Major Achievements:

Sayantan Dasgupta: Member, English Advisory Board, Sahitya Akademi, from 22 March, 2018.

Sayantan Dasgupta: External Member of Board of Studies, Centre for Comparative Literature, Visva-Bharati (from August 2017).

Sayantan Dasgupta: Elected Secretary, Comparative Literature Association of India.

Annual Report 2017-18

WELDING TECHNOLOGY
[Department of Metallurgical & Material Engg.]
Int. : 2457-2171
Coordinator: Dr. A.K. Pramanick
E-mail : wtc.centre@jadavpuruniversity.in

Brief Profile:

Year of establishment: 2002

Department to which the Centre is attached: Metallurgical & Material Engineering

Coordinator : Prof. A.K.Pramanick

Annual Budget: Rs. 12,000.00(University Budgetary grant; excludes project funds and earnings)

Major Objectives: To strengthen the understanding & cooperating in promoting the development of Welding Technology.

Major Activities:

To conduct training programme for fresher and experience personnel engaged in welding.

To conduct long term and short term academic courses on welding technology

To undertake industry oriented research projects

To offer consultancy services for assessment and solution of industrial problem

Faculty Profile:

There is no sanctioned post. The coordinator's profile is given below;

Name : A.K. Pramanick

Last degree : PhD

Designation : Professor

Research Interest : Physical Metallurgy, Composites and Joining of Materials

/Specialization

Contact details : akshay99.ju@gmail.com

A. SRF under state fellowship: One

B. Paper Published

Publications:

- Tapan Sarkar, Tapan Kumar Pal, Akshay Kumar Pramanick, **Response of Austempering heat treatment in weld metal, HAZ and base metal of ADI weldments**, International Welding Congress 2017, on 7th to 9th Dec 2017
- Tapan Sarkar, Tapan Kumar Pal, Akshay Kumar Pramanick, **Effect of Cerium content in Austempered Ductile Iron (ADI) Weld metal**, 1st International Conference on Mechanical Engineering, Jadavpur University (INCOM 2018), on 4-6th January 2018, Kolkata, Published in Proceeding

PhD (Engineering)

1. **PhD Submission: 1**

2. **Ph. D Ongoing: 5**

Project:

Annual Report 2017-18

To develop procedure for joining for next generation high temperature material to be used for supercritical/ultra super critical power plant by Friction Stir Welding

Time: 2015-2018

Cost: Rs. 5, 85, 89289/-

Administrative Committee Meeting :

1. Project Review Committee (PRC) meeting for the R&D project entitled “To develop procedure for joining for next generation high temperature material to be used for supercritical/ultra super critical power plant by Friction Stir Welding” funded by Ministry of steel was held on 18.08.2017 at Welding Technology Centre, Jadavpur University.
2. Administrative Committee Meeting for the Collaborative research project on, “To Develop procedure for joining next generation high temperature material to be used for supercritical/ultra super critical power plant by Friction Stir Welding” was held on 06.02.2018

ADULT, CONTINUING EDUCATION AND EXTENSION

Phone : +91-33-2414-6236

Int. : 2457-2290

Fax: +91-33-2412-7583

H.O.D. : Prof. Dr. Tandra Mitra

E-mail : hodadultcontinuing@jadavpuruniversity.in

1. (A) Courses Offered: Details of the Courses offered during the period from 1 April 2018 to 31 March 2019 may be found in the Annexure 'A' attached herewith.

1. (B) Number of Faculty Members: Three (3)

2. (A) Area of Research Activities: Adult Education, Continuing Education, Communication, Engineering

3. (A) Santwan Chattopadhyay has chaired session in National Seminar on Facets of Development Communication in Rabindra Bharati University, 31st January – February, 2018.

3. (B) Seminar/Workshop/Conference/Symposium Attended:

Santwan Chattopadhyay has presented in **International Seminar.**

1. Reaching Out Beyond the Four Walls of University' in Non - Formal Education in University System and Women Empowerment organized by DACEE JU, 16 May 2017.
2. Notion of Privacy Versus Media Freedom in Privacy Vis-a-vis Media Freedom and Different Facets of Reporting organized by DACEE JU and Press Club Kolkata, 7 & 8 September 2017.
3. Overlapping Personal and Social Space in Public Sphere" in Social Networking :Tool for Constructing Virtual Commentary organized by Asutosh College, Kolkata, 12 November 2017
4. News Portals- latest Trend in Bengali Journalism in Bengali Journalism Post Globalization Era, organized by University of Burdwan 10 November 2017

Santwan Chattopadhyay has attended National Seminar

1. Synergy of Formal and Non-Formal Modes in Higher Education in India : Road Ahead organized by DACEE JU and WBCuTA, 19 November 2017

4. (B) Articles Published in Journals:

1. **A Sen, Santwan Chattopadhyay, Dr, P.S. Chakraborty - Blurring the Line Between personal and public domains in mediated Communication**, Global Media Journal (Indian Edition), ISSN 2249-5835, Vol 7, No. 2 & Vol 8, No. 1, June 2017 **Smartphones, Convergence and reaching Out : Case Study of Rural Bengal**, Global Media Journal - Indian Edition, ISSN 2249-5835, 8(2), Pp1-12., December 2017.
2. **Santwan Chattopadhyay, Dr. P. S. Chakraborty, - :Lifestyle Improvement of Rural Women Through University – Panchayat Collaboration**, BR International Journal of Culture Media & Trends, ISBN 2457-0966, Vol 1, No. 1 Pp-77-81. January 2018.

3. **Santwan Chattopadhyay, Prof. S.N. Bera - Municipal Public Relations : Increasing Importance Experience of Kolkata Municipal Corporation**, IISRR -International Journal of Research, ISSN 2394-885X, PP 36-49, December 2017 .
5. **Collaborative Programmes:** Courses organised in collaboration with different organisations have been shown in Annexure 'A'.

Annexure : 'A'

COURSES OFFERED FOR THE SESSION 2017 – 2018 :

GRADUATE LEVEL COURSES :

Title of the Course	Duration	Course Fee	Eligibility
B.Ed. in Special Education (Multiple Disabilities) (<u>With Indian Institute of Cerebral Palsy</u>)	2 Year	Rs.80,000/- +Rs.360/-	Graduate in any discipline
B.Ed. in Special Education (Mental Retardation) (<u>With Manovikash Kendra</u>)	2 Year	Rs.80,000/- +Rs.360/-	Graduate in any discipline

POST – GRADUATE DIPLOMA LEVEL COURSES :

Title of the Course	Duration	Course Fee	Eligibility
Post Graduate Diploma in Mass Communication	1 Year	Rs.20,000/-	Graduate in any discipline
M.A. in Journalism and Mass Communication	2 Year	Rs.40,000/-	Honours Graduate in any discipline with 50% marks

DIPLOMA LEVEL COURSES:

Title of the Course	Duration	Course Fee	Eligibility
Diploma in Electrical Technician (With Aurobindo Engineering Institute)	2 Years	Rs.32,000/-	Madhyamik or equivalent
Diploma in Automobile Engineering (With Aurobindo Engineering Institute)	2 Years	Rs.32,000/-	Madhyamik or equivalent

CERTIFICATE LEVEL COURSES :

Title of the Course	Duration	Course Fee	Eligibility
Technician Training Course in Air- Conditioning and Refrigeration (<u>In collaboration with St. Thomas Technical Training Centre</u>)	1 year	Rs.500/- per month	Passed Class VIII standard

Annual Report 2017-18

Computer Hardware <u>(In collaboration with St. Thomas Technical Training Centre)</u>	6 Months	Rs.4500/-	Class X appeared.
Advance Certificate Course in Civil Construction(With Aurobindo Engineering Institute)	1 Years	Rs.22,000/-	Madhyamik or equivalent
Advance Certificate Course in Air-Conditioning and Refrigeration (With Aurobindo Engineering Institute)	1 Years	Rs.22,000/-	Madhyamik or equivalent
Basic Networking <u>(With St. Thomas Technical Training Centre)</u>	16 Weeks	Rs.3500/	Class X appeared and knowledge of Computer Hardware.
Vocational course on 'Industrial Practices' (With TMC Institute of Learning)	24 Weeks	Rs.6000/	Madhyamik or equivalent / Class VIII passed with 5 years experience in related industry.
Caregivers for persons with disabilities(With IICP)	8 Weeks	Rs.1000/	Class VIII passed
Manuscriptology & Paleography Sanskrit Dept. J.U.	24 Weeks	Rs.5500/-	Graduate with working knowledge of Sanskrit

COURSES FOR THE PERSONS WITH SPECIAL NEEDS :

Title of the Course	Duration	Course Fee	Eligibility
Caregivers for persons with disabilities (With IICP)	8 Weeks	Rs.1000/-	Passed Class VIII Passed
Web Designing & Publising (With IICP)	24 Weeks	Rs.3500/-	Madhyamik or equivalent. Presons with physical and multiple disabilities, hearing impairment and persons without disabilities from economically weaker sections who have working knowledge in English
Office Management (With IICP)	16 Weeks	Rs.2100/-	Madhyamik or equivalent. Presons with physical and multiple disabilities, hearing impairment and persons without disabilities from economically weaker sections who have working knowledge in English

Annual Report 2017-18

Database Management(With IICP)	8 Weeks	Rs.1200/-	Madhyamik or equivalent. Presons with physical and multiple disabilities, hearing impairment and persons without disabilities from economically weaker sections who have working knowledge in English
Desk Top Publising(With IICP)	24 Weeks	Rs.2600/-	Madhyamik or equivalent. Presons with physical and multiple disabilities, hearing impairment and persons without disabilities from economically weaker sections who have working knowledge in English
Basic Management of Cerebral Palsy(With IICP)	4 Weeks	Rs.2000/-	Qualified Medical Professionals (Medical practitioners, therapists and rehabilitation professionals.)

EXTENSION & FIELD OUTREACH PROGRAMMES :

Title of the Course	Duration	Course Fee	Target Group
Sewing and Tailoring <u>(Kalikapur I No. Gram Panchyat)</u>	6 Months	Nil	Rural underprivileged women
Sewing and Tailoring <u>(Kalikapur II No. Gram Panchyat)</u>	6 Months	Nil	Rural underprivileged women
Sewing and Tailoring <u>(Pratapnagar Gram Panchyat)</u>	6 Months	Nil	Rural underprivileged women
Sewing – Basic <u>(Emmanuel Ministries)</u>	6 Months	Nil	Street Children
Sewing – Advanced <u>(Emmanuel Ministries)</u>	6 Months	Nil	Street Children

D. SPECIAL PROGRAMME

GLOBAL CHANGE PROGRAMME

Telefax : 2414-6382
Int. : 2457 - 2389
Coordinator. : Professor Joyashree Roy
E-mail : jadavpur.gcp@gmail.com
<http://www.juglobalchangeprogram.org>

The Global Change Programme at Jadavpur University (GCP-JU) marks the beginning of a multidisciplinary and comprehensive approach in India at the University level to address the issues of global change and related issues like climate change. GCP-JU comprising theoretical, empirical and action research projects as well as outreach activities seeks to have a direct impact on policy implementation and global change related negotiations at the local, national and international levels. Specifically, GCP-JU has been providing research inputs to The Intergovernmental Panel on Climate Change (IPCC), Millennium Assessment Report (2005), Stern Review Report (2006), and Global Energy Assessment of IIASA (International Institute for Applied Systems Analysis) at the international level. The research centre has also worked with Ministry of Environment and Forest towards preparation of NATCOM (National Communication) for United Nations Framework Convention on Climate Change (UNFCCC) and helps in capacity building within India and many developing countries. At the state level, GCP - JU is involved in the preparation of comprehensive report to ascertain the climate change impact, vulnerability and mitigation potential within the state of West Bengal.

GCP-JU provides an ideal platform to researchers, working professionals, governmental and non- governmental organizations to research, network and collaborate on various local, national and international global change issues. GCP-JU collaborates with various governmental and non- governmental organizations to organize state level, national and international seminars, meetings and workshops which stimulate intellectual dialogue and facilitate policy making.

Primary Aim is Capacity Building Through

- Targeted research
- Short training programmes
- Outreach activities
- Information dissemination

Internship at GCP-JU:

Graduate / undergraduate students from Jadavpur University and various parts of India as well as from other countries worked as interns and worked with researchers associated with various ongoing projects. During April 2017 and March 2018 four interns have worked at GCP-JU.

Visiting Fellows:

Individual researchers, doctoral fellows, faculty members of various academic institutions as well as working professionals have the opportunity to conduct a part of their research or project in collaboration with GCP-JU. The visiting scholars/ working professionals can avail GCP-JU resources to facilitate their work and share their understanding of global change issues with the researchers at GCP-JU through workshops, seminars and group discussions.

Post-Doctoral Research:

Through various project activities Post Doctoral fellowship is helping advanced fellows to pursue research on frontier areas. Kuheli Mukhopadhyay has worked in the capacity of part time Post Doctoral Fellow in the NATCOM III project “Assessment of economic cost of impact of heat Stress on labour productivity and adaptation in selected building and transport sector” during the period July 2017-December 2017.

Activities from April 2017 to March 2018:

1. Workshop on “Circular Economy” held on July 25, 2017: This workshop formed a part of a Chatham House project supported by the Rockefeller Foundation which aims to identify policy priorities and entry points for mainstreaming ‘circular economy’ approaches in emerging and developing economies.
2. Workshop on bridging the industry and academia and a special book publication held on December 27, 2017 at Bengal Chamber of Commerce and Industries

Lecture Sessions/Meetings Organized at/by GCP:

1. 2017, September 14, Seminar on “A Sustainable Way of Life for Mitigating the Effects of Climate Change” delivered by Sri Sudipta Ray from Social Organization for Integrated Living (SOIL)
2. 2017, August 8, Interactive Session on ”Issues on Climate Change and the future of Climate protection movements” by Shri Binayak Ray, Visiting Fellow Australian National University, Canberra, Australia.

Presentations by Interns:

- July 14, 2017, Ms. Mallika Bhowmick, M.A student of Economics at Hyderabad Central University , presented on “Uncertainties Threaten Natural Gas Future”
- July 14, 2017, Ms. Uttama Deb, M.A student of Economics at Hyderabad Central University , presented on “ Natural Gas in India: Policies and Perspectives”
- July 14, 2017, Mr. Swagat Ghosal, B.Sc student of Geography at Jadavpur University, presented on “Trend Analysis of Temperature for the month of June: Evidence from Kolkata and Delhi”.
- July 14, 2017, Mr. Sambit Shome, B.Sc student of Agriculture at Lovely Professional University, presented on “Soilless Culture in Practise”

Research Projects (Completed / Ongoing):

- University Grants Commission (UGC) funded research project “Road Map for Decarbonization of Indian Energy System: Exploring Innovative Solutions” under Indo-Norwegian Cooperation Programme (INCP)-ongoing
- University Grants Commission (UGC) funded research project under University of Potential Excellence - II (UPE - II) on “National Adaptation Strategy formulation for reduction of climate induced risk to labour productivity”-ongoing
- UTFORSK funded project “Sustainable Energy and Environment Solutions: Technology and Policy” - ongoing
- Ministry of Environment, Forests and Climate Change (UNFCCC) funded project “Assessment of economic cost of impact of heat Stress on labour productivity and adaptation in selected building and transport sector”-completed

Publications: (2017- 18)

In Peer Reviewed Journals:

- V. Gupta, B. Basak, K. Ghosh, B. Roy (2018). "Universal Control Algorithm for Automatic Current Regulated LED Driver". *International Journal of Power Electronics*. Accepted on February 21, 2018.
- J. Roy, D. Chakravarty, S. Dasgupta, D Chakraborty, S. Pal, D. Ghosh. (2018) "Where is the hope? Blending modern urban lifestyle with cultural practices in India", *Current Opinion in Environmental Sustainability* 2018, 31:96–103, <https://doi.org/10.1016/j.cosust.2018.01.010>.
- P. Sen, A. Debsarkar and D. Pal, (2018) 'Hexavalent Chromium Tolerance of Bacterial Strains Isolated from Tannery Effluent Contaminated Soil' *International Journal of Innovative Research & Studies*, 2018, Volume 8, Issue IV, DOI: 16.10086/IJIRS.
- S. Sahoo, A. Dhar, A. Debsarkar and A. Kar, (2018) 'Impact of water demand on hydrological regime under climate and LULC change scenarios' *Environmental Earth Sciences*, Springer-Verlag GmbH Germany, Part of Springer Nature, 77:341, <https://doi.org/10.1007/s12665-018-7531-2>
- A. Ray, S. De, M. Assadi (2018): "Cost Optimization of a Polygeneration Using Renewable Resources". *Springer Proceedings in Energy* (Accepted).
- A. Ray and S. De. (2018): "Polygeneration Using Renewable Resources: Cost Optimization Using Linear Programming", *Process Integration and Optimization for Sustainability* (Springer), (<https://doi.org/10.1007/s41660-018-0053-2>) (Article in press).
- A. Ray, K. Jana, M. Assadi, S. De, (2018): "Distributed polygeneration using local resources for an Indian village: multi-objective optimization using metaheuristic algorithm". *Clean Technologies and Environmental Policy* (Springer) (doi:10.1007/s10098-018-1562-y) (Article in press).
- K. Ghosh, S. Bardhan and S. Roy, (2017) 'An Assessment of the Annual Carbon Sequestration Potential of Urban and Peri-urban Water Bodies and Wetlands', *International Advanced Research Journal in Science, Engineering and Technology (IARJSET)*, Volume 4, Issue 7, ISSN: 2394-1588, e-ISSN 2393-8021, pp. 86-93, DOI 10.17148/IARJSET.2017.4714.
- D. Dasgupta, A. Debsarkar, T. Hazra, B.K. Bala, A. Gangopadhyay and D. Chatterjee, (2017) 'Scenario of future e-waste generation and recycle-reuse-landfill-based disposal pattern in India: a system dynamics approach' *Environment, Development and Sustainability* (Springer Publication), Volume 19, Issue 3, pp-1473–1487, DOI 10.1007/s10668-016-9815-6.
- S. Banerjee, A. Debsarkar and S. Datta, (2017) 'Removal of Basic Dyes from Aqueous Solution by Adsorption Using Rice Husk Ash-A Fixed Bed Column Study' *International Journal of Advanced Engineering, Management and Science (IJAEMS)*, Volume 3, Issue 4, <https://dx.doi.org/10.24001/ijaems.3.4.7>.
- S. Banerjee, A. Debsarkar and S. Datta, (2017) 'Adsorption of Methylene blue and Malachite Green in Aqueous Solution using Jack Fruit Leaf Ash as Low Cost Adsorbent' *International Journal of Environment, Agriculture and Biotechnology (IJEAB)*, Volume 2, Issue 3, <http://dx.doi.org/10.22161/ijeab/2.3.45>.
- S. Biswas and A. Debsarkar, (2017) 'Supportive Urban Water Management-A Case Study of Barasat Municipality, West Bengal' Volume XLIX, Issue 2, pp-72-78

Annual Report 2017-18

- R. B. Jackson, C. LeQueire, R.M Andrew, J.G Canadell, G.P Peters, J.Roy and L Wu (2017), “Warning signs for stabilizing global CO₂ emissions”, *Environ. Res. Lett.* 12 (2017) 110202, <https://doi.org/10.1088/1748-9326/aa9662>.
- R. Raven, B. Ghosh, A. Wiecek, A. Stirling, D. Ghosh, S. Jolly, E. Karjantimapon, S. Prabudhanitisarn, J. Roy, S. Sangawongse, F. Sengers, (2017), “Unpacking sustainabilities in diverse transition contexts: Solar photovoltaic and urban mobility experiments in India and Thailand”, *Sustainability Science*, (2017) 12:579–596. DOI 10.1007/s11625-017-0438-0 <https://link.springer.com/article/10.1007/s11625-017-0438-0>.
- C. Delaire, A. Das, S. Amrose, A. Gadgil, J. Roy, I. Ray (2017), “Determinants of the use of alternatives to arsenic-contaminated shallow groundwater: an exploratory study in rural West Bengal, India”, *Journal of Water and Health*, Accepted on 04 Apr 2017.
- B. Gupta Bakshi, B Roy (2017), “Wattage-independent dynamic conductance model of compact fluorescent lamps: Validation and application in high-frequency operation”. *Lighting Research & Technology*.

Conference Papers:

- P. Sen, D. Pal and A. Debsarkar (2018) ‘Remediation of Chromium: An Overview of Chemical and Microbial Processes and Mechanisms’ Research Conclave, 2018, IIT-Guwahati
- A. Roy, I. Mookherjee, S. Sit, A. Dutta and A. Debsarkar (2017) ‘Investigation on arsenic leaching from sludge embedded concrete for different size ranges using TCLP’, National Conference on Sustainable Advanced Technologies for Environmental Management, Department of Civil Engineering, Indian Institute of Engineering Science and Technology, Shibpur, June (28-30), 2017
- A. Roy, S. Chakraborty, A. Dutta and A. Debsarkar (2017) ‘Diurnal trends and seasonal variation of few criteria air pollutants (suspended particulate matters, gaseous and heavy metal) in the ambient air of Jadavpur, Kolkata’, National Conference on Sustainable Advanced Technologies for Environmental Management, Department of Civil Engineering, Indian Institute of Engineering Science and Technology, Shibpur, June (28-30), 2017.
- P. Sen, D. Pal and A. Debsarkar (2017) ‘The quest for mechanistic insights for bioaccumulation of hexavalent chromium: a white route for bioremediation’ LERIG organised by CLRI in Chennai, 2017.
- B. Gupta Bakshi, B. Roy (2017) “Application of developed wattage independent CFL model for design and evaluation of voltage dimmable electronic ballast”. *2017 IEEE Calcutta Conference (CALCON)*. December 2-3, 2017. 205-209.
- V. Gupta, B. Basak, K. Ghosh, B. Roy (2017). “Stability Analysis of a Universal LED Driver”. *2017 IEEE Calcutta Conference (CALCON)*. December 2-3, 2017. 279-283.
- P. K Maiti, A. D Singh, B. Roy (2017). “Design and development of daylight responsive RF light controller”. *2017 IEEE Calcutta Conference (CALCON)*. December 2-3, 2017. 309-313.
- V. Gupta, K. Ghosh, B. Roy (2017). “Design Topology Based Comparative Study on Electric and Photometric Parameters of Commercially Available LED Lamp Systems”. *2017 2nd International Conference for Convergence in Technology (I2CT)*; Siddhant College of Engineering, Pune, India. Apr 7-9, 2017.

Authored/Edited Books:

- S.De, S. Bandyopadhyay, M. Assadi, D.A Mukherjee, Sustainable Energy Technology and Policies- A Transformational Journey (Vol 1); book doi: 10.1007/978-981-10-7188-1 (Springer)
- S.De, S. Bandyopadhyay, M. Assadi, D.A Mukherjee, Sustainable Energy Technology and Policies- A Transformational Journey (Vol 2); book doi: 10.1007/978-981-10-8343-8 (Springer)
- A. Gautam, S.De, A. Dhar, J.GGupta, A. Pandey, Sustainable Energy and Transportation Technologies and Policy; book doi: 10.1007/978-981-10-8343-8

Articles in Edited Volumes/Book Chapters:

- A. Safari, N. Das, S. Jafari, O. Langhelle, J. Roy, & M. Assadi,(2018). Role of Gas-Fuelled Solutions in Support of Future Sustainable Energy World: Part II: Case Studies. In Sustainable Energy Technology and Policies: A Transformational Journey, Vol 2 (pp. https://doi.org/10.1007/978-981-10-8393-8_2, Print ISBN: 978-981-10-8392-1, Electronic ISBN: 978-981-10-8393-8). Singapore: Springer.
- A. Ray and S. De, (2018); ‘Distributed Polygeneration Using Solar Energy: A Future Sustainable Energy System for India’, Applications of Solar Energy, Editors: HimangshuTyagi,Avinash Kumar Agarwal, Prodyut R Chakraborty and SatvasheelPowar ISBN 978-981-10-7205-5, Springer.
- K. Jana, S. De, (2017): ‘Distributed energy solution for India: Exploring the possibilities’ In: Sustainable Energy Technologies and Policy. Eds. S. De, S. Bandyopadhyay, M. Assadi, D.A. Mukherjee. Springer. (DOI: 10.1007/978-981-10-7188-1_6)
- K. Jana, P. Mahanta, and S. De, (2017): Role of biomass for sustainable energy solution in India. In: Sustainable Energy and Transportation: Technologies and Policy. Eds. A. Gautam, A. Dhar, JG Gupta, S. De. Springer. (DOI: 10.1007/978-981-10-7509-4_12).
- S. Paul and S. Bardhan, (2017) ‘Biodiversity Accounting of Cities: A case study of Kolkata, India’,Sustainable Development and Planning IX, ISBN: 978-1-78466-231-8, eISBN: 978-1-78466-232-5 and Volume 226 of WIT Transactions on Ecology and the Environment, ISSN: 1746-448X, e-ISSN: 1743-3541, pp. 815-826, DOI:10.2495/SDP170711.
- N. Das, &J. Roy, (2017). “Making Indian Power Sector Low Carbon: Opportunities and Policy Challenges”. In S. D. AnirudhGautam, Sustainable Energy and Transportation (pp. 163-183, https://doi.org/10.1007/978-981-10-7509-4_10, Print ISBN: 978-981-10-7508-7, Online ISBN: 978-981-10-7509-4). Singapore: Springer.
- J.Roy, S. Dasgupta, D. Ghosh,D. Chakravarty,N. Das, D. Chakraborty and S. De (2017),Governing National Actions for Global Climate Stabilisation : Examples from India,Chapter 9 in, Climate Governance In South Asia,(eds) BaruaAnamika, Vishal Narain, SumitVij, CRC Press-Taylor and Francis Group. (accepted for publication).
- M. Caine, J. Lloyd, M. Luke, L. Margonelli,T. Moss, T. Nordhaus, R. Pielkejr.,M.Roman, J. Roy, D. Sarewitz,M. Shellenberger, K. Singh, A. Trembath (2017), Our High Energy Planet, in,The Rightful Place of Science: Climate Pragmatism (eds.) Lloyd J, Sarewitz D, T Nordhaus, A Trembath, Consortium for Science Policy & Outcome at Arizona State University, Tempe,AZ and Washington DC. ISBN 9780692897959.

JADAVPUR UNIVERSITY PRESS
(Publications)

Int. : 2457-2951
Director : Professor Abhijit Gupta
E-mail : pressju@gmail.com

BOOKS PUBLISHED IN THE CURRENT YEAR

1. Sukanta Chaudhuri, *Chandalika: Prakritir Abhisar*. ISBN 978-93-83660-43-8, Rs 50.
2. H. Dutta, *Lieut. Suresh Biswas: His Life and Adventures*. ISBN 978-93-83660-33-9, Rs 300.
3. INCOM 2018: Proceedings of the First International Conference on Mechanical Engineering. Eds. Achintya Mukhopadhyay, Prasanta Sahoo and Swanendu Sen. ISBN 978-93-83660-38-4. Print and CD. *Not for sale*.
4. Samir Saha, *Samaj, bijnan o Halden*. ISBN 978-93-83660-34-6, Rs 100.
5. Rui Zink, *Shesher sedin*. Translated by Rita Ray from the Portuguese and published with financial assistance from the Camoes-Instituto da Cooperacao e da Lingua, I.P. ISBN 978-93-83660-37-7, Rs 300.
6. *E-Learning and Higher Education in India and Italy: Research Study and Analysis*. Eds. Supriya Chaudhuri, Sritama Chaudhuri and Andrea Reggiani. ISBN 978-93-83660-36-0. *Not for sale*.
7. A new edition of the brochure for Jadavpur University has also been compiled, designed and published in this period

FORTHCOMING TITLES IN 2018-19

- Hariprabha Takeda, *The Journey of a Bengali Woman to Japan and other essays*, trans. Somdatta Mandal
- J. H Broomfield, *Elite Conflict in a Plural Society*. Fiftieth Anniversary Edition.
- Humphry House, *I Spy with My Little Eye*. Eds. Sajni Mukherji and Sujaan Mukherjee.
- Subrata Sinha, *Adhnikatar kabyatattva and Sudhindranath Dutta*.
- Ursula le Guin, *Irasindhur ek jadukar*, trans. Sudeshna Datta Chaudhuri
- Various hands, *Tagore Graphic Anthology* (with HarperCollins)
- D. N. Bandyopadhyay, *Evolving India: Phanerozoic Eon; A Book on Stratigraphy*
- Proceedings of international conference of the Civil Engineering Department, JU
- *Lamp in the Lotus: A History of Jadavpur University*

EVENTS

1. In July 2017, the Development Editor of the JUP met faculty and students at the School of Languages and Culture Studies, Tokyo University of Foreign Studies, Tokyo, Japan, to introduce them to the books published by the JUP and discuss university publishing. Since Bangla is one of the languages taught at this School, there was particular interest in the

Annual Report 2017-18

Murakami translation, as well as future Japan-Bengal contact and possible directions in the publishing of translations.

2. In November 2017 JUP was invited to conduct a training workshop to update the skills of the Publication Division, The Asiatic Society. The focus of this module (16, 17, 22-24 Nov) was prepublication processes in soft copy, and book design on Adobe PageMaker. The topics covered in soft-copy pre-publication procedures included handling MS Word in editing mode, functions of MS Word relevant to editing copy, processes and possible troubleshooting with basic soft-copy editing, and citation in a contemporary format.
3. Launch of *Sesher sedin*: At 'Ebong Baithak' in January 2018. The author of the original volume, Rui Zink, travelled from Portugal to attend the event.
4. Participated in the Kolkata Book Fair 2018, provided a space to retail JUP and NCE Bengal books. JUP employees staffed the stall for the entire period of the book fair, representing Jadavpur University in one of the largest book fairs in the world today.
5. Participated in the NCE bookfair, February 2018. JUP employees staffed the stall representing Jadavpur University
6. Set up and staffed a stall of JUP books for the University Convocation, 24 December 2017

RIGHTS ACQUISITION

Over the last two years, JUP has acquired translation rights to some of most well-known world writers for translation into Bengali, and English. Some of these works have already been published while others are in production. The authors/works whose rights have been acquired are as follows:

1. Haruki Murakami, bestselling Japanese novelist, for *Kafka on the Shore*, from Curtis Brown
2. Ursula le Guin (1929-2018), renowned Canadian novelist, winner of several Hugo, Lotus, Nebula awards in science fiction, for *A Wizard of Earthsea*, from Curtis Brown
3. Czeslaw Milosz (1911-2004), Polish poet and winner of the Nobel Prize in literature in 1980, 'Poems', from Andrew Wylie
4. Rui Zink, contemporary Portuguese author, for *Apocalypse Nau*, and short stories, from author
5. Syed Mujtaba Ali (1904-74), Bengali author, for *Chachakahini*, from heirs
6. Humphry House (1908-55), scholar and intellectual, for *I Spy with My Little Eye*, from heirs
7. Hansda Showvendra Shekhar, contemporary writer, for *The Adivasi will Not Dance*, from Speaking Tiger publishers

BACKLIST

1. Dante Alighieri, *Norok (L'Inferno)*. Translated from the Italian into Bengali by Alpana Ghosh under the general editorship of Sukanta Chaudhuri, and third in the Italio-Bangla Anubad series.
2. Haruki Murakami, *Samudratate Kafka II (Umibe no Kafuka)*. Second volume, translated from the Japanese into Bengali by Abhijit Mukherjee.
3. Rui Zink, *Ek dojon Rui Zink*, collection of short stories. Translated from the Portuguese into Bengali by Rita Ray.
4. Haruki Murakami, *Samudratate Kafka I (Umibe no Kafuka)*. Translated from the Japanese

Annual Report 2017-18

- into Bengali by Abhijit Mukherjee. ISBN: 978-93-83660-25-4. Bengali. 382 pages. 2016. Rs 300.
5. Sayantan Dasgupta and Kabita Lama, eds., *Call of the Hills: A Coursebook of Indian Nepali Literature in Translation*. ISBN 978-93-83660-06-3. English. 250 pages. 2016. Rs 250.
 6. Sangeeta Dutta and Subhoranjan Dasgupta, eds., *Tagore: The World as His Nest*. ISBN: 978-93-83660-14-8. English. 222 pages. 2016. Rs. 650.
 7. *Journal of the Moving Image* 13. ISSN: 2230-9160. English. Academic journal of the Department of Film Studies, Jadavpur University.
 8. *Tamang Selo: A Coursebook of Indian Nepali Literature in Translation*. ISBN: 978-93-83660-05-6 Nepali/English. 201 pp. 2015. Rs 200. -
 9. Pulin Behari Das, *Astracharchaa: Pulin Behari das Rachanasamgraha*; eds. Deeptanil Ray and Nikhilesh Bhattacharya. ISBN: 978-93-83660-13-1. 516 pages. Rs 700. 2015.
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 11. P.B. Shelley, *Kaaler joyjatra*. trans. Malini Bhattacharya. A translation of P. B. Shelley's *The Triumph of Life*. ISBN: 978-93-83660-04-9. 95 pages. Rs 150. 2015.
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 13. Amiya Bandhyopadhyay, *Khanasmriti*. ISBN: 978-81-927525-8-7. 170 pages. Rs 150. 2014.
 14. Tushar Kanti Sarkar, Shefali Maitra and Indrani Sanyal, eds., *Wittgenstein: jagat, bhasa o chintan*. ISBN 978-81-86954-96-6. Rs 350. 2013.
 15. Madhabendranath Mitra, Amita Chatterjee and Prayas Sarkar, eds., *Manodarshan: sarirbad o tar bikalpa*. ISBN 978-81-86954-98-0. Rs 300. 2013.
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 18. Amlan Das Gupta, eds. and trans., *Henry Sargent's Aeneid of 1810*. ISBN 978-81-86954-92-8. Rs 200. 2013.
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 21. *Essays on Half-tone Photography* by Upendrakishore Raychowdhury. ISBN 978-81-927525-5-6. Rs 300. 2014.
 22. Bidhusekhar Shastri Bhattacharya, *Rabidrasanglapkanika o onannyo rochona*. ISBN 81-86954-66-X. 210 pp. Rs 170. 2011.
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Annual Report 2017-18

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26. Madhujā Mukherjee, ed., *Aural Films Oral Cultures: Essays on Cinema from the Early Sound Era*. ISBN 978-81-86854-81-2. 216 pp. Rs 450. 2012 [Distributed by Orient Blackswan]
27. Gangadhar Kar Nyayacharya, *Tarkabhasha*, Vol. I; 398 pp.; ISBN 978-93-80336-67-1; Rs 450. 2012 [Distributed by Mahabodhi Society]
28. Sumitra Mukherjee and Sujata Roychoudhury, *Aspects of Interpersonal Communication* (Self-Empowerment Series, general editor: Soumitra Basu). ISBN 978-81-86954-82-9. 133 pp. Rs 100. 2012.
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NATIONAL SERVICE SCHEME (N.S.S.)

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The motto of the National Service Scheme is 'NOT ME BUT YOU'. It is in the line of this motto, the NSS unit of J.U., under the co-ordinatorship of the Dr. Anupam Debsarkar does various activities of the body emphasizing on community and student welfare and to develop a sustainable sensitivity in the student-volunteers towards their fellow beings, particularly the underprivileged and the challenged. The activities are categorized into two parts - **Regular activities** and **Special Camps**. The NSS activities of Jadavpur University on & from **1st April, 2017** to **31st March, 2018** are mentioned below:

A. Major Achievements (2017-2018)

i) National Integration Camp, Vishwakarma Government Engineering Collage, Chandkheda, Ahmadabad

NSS Student volunteers from Jadavpur University viz, Sandeep Kumar (Department of Chemical Engineering, B.E.-III), Anand Kumar (Department of Chemical Engineering, B.E.-III), Aamir Ashraf Khan (Department of Chemical Engineering, B.E.-III) participated in the National Integration Camp at Vishwakarma Government Engineering Collage, Chandkheda, Ahmadabad, over the period of 12th to 28th August, 2017.

ii) Republic Day Camp, Red Road, Kolkata

NSS student volunteers from Jadavpur University viz. was Mr. Surajit Sarkar (Department of Physical Education M.PED-I), Miss.Tinni Mondal (Sociology, UG-I) were selected for Republic day Camp, Red Road, Kolkata from 5st to 27th January, 2018.

iii) National Youth Festival, Goutam Buddha University, Noida, Delhi

NSS student volunteers from Jadavpur University viz. Mr. Ranajit Jana (Department of Education, B.ED), Mr. Shyamapada Manna (Sanskrit, PG-I), Miss. Subhadra Dutta (Sanskrit, PG-I), participated in the National Youth Festival Camp organized at Goutam Buddha University, Noida, Delhi from 12th to 16th January, 2017.\

iv) Training of Trainers (TOT) RGNIYD, Pennalur, Sriperumbudur, Tamilnadu -602105

NSS Programme officers from Jadavpur University viz, Dr. Debdas Mandal (Department of Sanskrit), Dr. Atanu Saha (Department of Language and Linguistic), Dr. Rita Basu (Institute of Business Management) participated the TOT programme on Youth Health at RGNIYD, Pennalur, Sriperumbudur, Tamilnadu - 602105 from 27th February to 1st March, 2018.

v) The initiative taken by NSS, JU in **Pulse polio immunization programme** benefited more than 300 children and Health check-up camps with awareness benefited approximate 3200 people.

vi) In this year the **Science Talent Search Programme** was conducted by NSS Jadavpur University, in which more than 800 school level students participated.

- vii) More than 1000 **clothes were distributed** to the needy people in collaboration with the NGO's and Clubs.
- viii) NSS student volunteers from Jadavpur University viz. **Mr. Subhankar Halder** (Department of Sanskrit, P.G-I) is awarded for being the **best NSS volunteer** with "**NSS award**" on 22nd December, 2017 by the Govt. of India.
- ix) NSS student volunteers from Jadavpur University viz. **Mr. Ranajit Jana** (Department of Education), UG-II, **Mr. Nazbul Gazi** (Department of Philosophy), **Miss Madhabi Mondal** (Department of Sanskrit), **Miss Shradha Rai** (Department of Sociology), **Mr. Samip Sinchuri** (Department of Sociology) are awarded for being best NSS volunteers (State Level) with "**NSS Award**" from Govt. of West Bengal.

B. Special Camps (2017-2018)

1. Environment enrichment and conservation camp at Jadavpur University Main Campus dated 5th to 11th June, 2017. No. of participants – 50 (Male: 30 Female: 20), Total beneficiaries - 450 (Male- 205 Female-245), blood donor's- 72 (Male: 60 Female: 12).
2. Slum development and health awareness camp at Foolar basti, Moti Mistri basti, Sannyashi basti, Kendua Road, Ward no.- 101, Kolkata, dated 1st to 7th August, 2017. No. of participants – 50 (Male: 35 Female: 15), Total beneficiaries- 256 (Male: 158 Female: 98).
3. Flood relief camp at Abinash Basu Road, Beltala Park, Bridge Kalibari, Balurghat, Dakshin Dinajpur, 733103, dated 20th to 26th August, 2017. No. of participants - 50 (Male: 42 Female: 08), Total beneficiaries- 500.
4. Awareness programme on Dengue at Jadavpur University Main Campus dated 15th to 21st September, 2017. No. of participants - 50 (Male: 25 Female: 25), Total beneficiaries- 500 (Male: 250 Female: 250).
5. Science awareness programme with Science exhibition and socio economy survey at Barisha Udayan Sangha, Udayan Pally, Ward no.-125, KMC, Kolkata, dated 18th to 24th September, 2017. No. of participants – 50 (Male: 28 Female: 22) Total beneficiaries: 320 (Male: 241 Female: 79).
6. Health awareness with health checkup programme and educational kits distribution programme at Banerjee Para Adarsha Samity, Sarsuna, Behala, Kolkata 700061, dated 1st to 7th November, 2017. No. of participants - 50 (Male: 26 Female: 24), Total beneficiaries: 235 (Male: 120 Female: 115) Total blood donors: 102 (Male: 85 Female: 17).
7. Training and survey programme on Annual Status on Education Reports, 2017 at Mrinmoyee Madhusudan Memorial Hall, Jadavpur University and 30 Villages of South 24 Parganas, dated 6th to 12th November, 2017. No. of participants - 50 (Male: 25 Female: 25), Total beneficiaries-500 (Male 289 Female: 211).
8. Health awareness with health checkup & cleaning and beautification programme under Swachha Bharat Abhiyan at Krishna Chandrapur High School, Mathurapur, South 24 Parganas, dated 10th to 16th November, 2017. No. of participants - 50 Male 31 Female: 19, Total beneficiaries-250
9. Slum development & Science awareness programme and with socio economic survey at Jagat Roy Chowdhury Road, PS- Barisha, Kolkata-700008, dated 27th November to 3rd December, 2017. No. of participants – 50 (Male: 26 Female: 24) Total beneficiaries- 259 (Male: 180 Female: 79).
10. Colony development including project identification with cloths and educational kits distribution

Annual Report 2017-18

- programme at Panch Masjid Road, Paschim Para, Thakurpukur, Kolkata, dated 12th to 18th January, 2018. No. of participants – 50 (Male: 35 Female: 15), Total beneficiaries- 302.
11. Awareness programme on Health with Health checkup programme and Cleaning and Beautification Programme under Swachha Bharat Abhiyan at Dargatala Little Star Club, Jaigirghat Road, Thakurpukur, Kolkata-700069, dated 14th to 20th January, 2017. No. of participants - 50 (Male: 32 Female: 18), Total beneficiaries- 224 (Male: 114 Female: 110).
 12. Science awareness programme and Cleaning and Beautification Programme under Swachha Bharat Abhiyan at Behala Girl's High School, Diamond Harbour Road, Behala, Kolkata, Ward no.-119, dated 28th January to 3rd February, 2018. No. of participants - 50 (Male: 25 Female: 25), Total beneficiaries- 275 (Male: 150 Female: 125).
 13. Awareness programme on Environment and health with health checkup at Master Da Surya Sen Pathagar, 5 no. Bidhan Colony, Santoshpur, Kolkata- 700075, dated 8th to 14th February, 2018. No. of participants – 50 (Male 30 Female: 20), Total beneficiaries-325 (Male: 205 Female: 120).
 14. Colony development including project identification and awareness programme on health with health checkup camp at Ananda Sangha, 84C, Hemanta Mukharjee Road, P.O. Parnasree, Behala, Kolkata- 700060, dated 9th to 15th February, 2018. No. of participants- 50 (Male: 30 Female: 20), Total beneficiaries- 220 (Male: 125 Female: 95).
 15. Awareness programme on environment and health with cleaning and beautification programme under Swachha Bharat Abhiyan at Sree Bardhan Pally, Joka, Kolkata -700107, dated 18th to 24th March, 2018. No. of participants - 50 (Male: 22 Female: 28), Total beneficiaries: 258 (Male: 136 Female: 122).
 16. Awareness programme on environment with cleaning and beautification under Swachha Bharat Abhiyan at Jadavpur University Main Campus, Kolkata 700032, dated 20th to 26th March, 2018. No. of participants – 50 (Male: 30 Female: 20), Total beneficiaries: 550 (Male: 350 Female: 200).
 17. Awareness programme on Science and cleaning programme under Swachha Bharat Abhiyan at A. P. Roy Institute, Gholshapur, Railway Colony, Behala, Kolkata-700034, dated 24th to 30th March, 2018. No. of participants – 50 (Male: 30 Female: 20), Total beneficiaries-265 (Male: 133 Female: 132).

C. Regular Activities (2017-2018)

1. **Rally on “Unity in Diversity”** from Ganguli bagan to Jadavpur 8B bus stand, dated 15th April, 2017. No. of participants – 30 (Male: 16 Female: 15).
2. **Value Education Workshop** at New Seminar Room, Department of Civil Engg., Jadavpur University, dated 21st April, 2017. No. of participants- 65 (Male: 48 Female: 17).
3. **State Level NSS Award Programme** at Vivekananda Hall, Ramakrishna Mission Institute of Culture, dated 26th April, 2017. No. of participants – 70 (Male: 36 Female: 34).
4. **“Nivedita”- documentary show** on Sister Nivedita's life and works at Gandhi Bhavan, Jadavpur University Main Campus, Kolkata-700032, dated 21st June, 2016. No. of participants- 475 (Male: 296 Female:179).
5. **Awareness on health and general health checkup with blood test** at Thakurpukur Agamani Sangha, Thakurpukur, Ward no. 125, dated 14th May, 2017. No. of participants-70 (Male: 45 Female: 25), Total Beneficiaries- 210 (Male: 110 Female:100).

6. **Health check up programme with free medicine distribution programme** at Sarsuna Satin Sen Park, Sarsuna, Kolkata, dated 14th May, 2017. No. of participants – 25 (Male: 15 Female: 10), Total Beneficiaries - 304 (Male: 182 Female: 122), Total Blood donors- 210 (Male: 101 Female: 100).
7. **Blood donation camp** at Sarsuna Satin Sen Park, Sarsuna, Kolkata, dated 4th June, 2017, No. of participants: 45 (Male: 23 Female: 22), Total blood donors- 201 (Male: 101 Female:100).
8. **Celebration programme on International Day of Yoga** at Department of Physical Education, Jadavpur University Main Campus, dated 15th and 21st June, 2017. No. of participants- 250 (Male: 145 Female: 105).
9. **Awareness programme on environment and health** with health check up programme at Selimpur Netaji Basti, Dhakuria, Kolkata, dated 2nd July, 2017. No. of participants- 30 (Male: 16 Female:14), Total beneficiaries- 305 (Male: 168 Female:137).
10. Observation of **“Banamahotsab Week”** at Parnasree Bus Stand, and Thakurpukur Bazaar, dated 16th July, 2017. No. of participants – 50 (Male: 35 Female: 15), Total beneficiaries: 375 (Male: 320 Female:55).
11. **Celebration of Independence Day** at Jadavpur University Main Campus, dated 15th August, 2017. No. of Participants: 149 (Male: 81 Female: 68).
12. **Value education workshop** at New Seminar Room, Department of Civil Engg., Jadavpur University, dated 16th August, 2017. No. of participants – 67 (Male: 34 Female: 33).
13. **Awareness programme on dengue** at Jadavpur University Main Campus, dated 29th August, 2017. No. of participants - 35 (Male: 17 Female: 18).
14. **Awareness programme on adulteration of food and diabetics** at Barisha Sashibhusan Janakalyan Vidyapith, D.H. Road, Kolkata-700008, dated 3rd September, 2017. No. of participants- 20 (Male: 11 Female: 09), Total Beneficiaries: 141 (Male: 85 Female: 56).
15. **Awareness programme on organ transplantation** at New Seminar Room, Department of Civil Engg., Jadavpur University, dated 14th September, 2017. No. of participants- 160 (Male: 85 Female: 75).
16. **Awareness programme on health and education with Health checkup programme** at Sasthir More, South Behala, Kolkata- 700061, dated 17th September, 2017. No. of participants- 31 (Male: 16 Female: 15), Total Beneficiaries- 125 (Male: 71 Female: 54).
17. **Cloth distribution programme** at Southern Avenue Park, Dr. Meghnad Saha Sarani, Kolkata- 700016, dated 19th September, 2017. No. of participants- 30 (Male: 14 Female: 16), Total Beneficiary- 500 (Male: 350 Female: 150)
18. **State level interactive session with NSS Functionaries of West Bengal** at Amity University, Kolkata, dated 29th October, 2017. No. of participants- 30 (Male: 14 Female: 16).
19. **Observation of 142 Birth anniversary of Sardar Ballav Bhai Patel and Run for Unity**, dated 31st October, 2017. No. of participants- 75 (Male: 41 Female: 34).
20. **Awareness and leaflet distribution programme on Dengue** at Jadavpur University Main Campus, dated 31 October, 2017. No. of participants – 20 (Male: 10 Female:10), Total Beneficiaries: 1500 (Male: 800 Female: 700).

21. **Rally and awareness programme on Drugs abuse** at Jadavpur University Main Campus, dated 1st November, 2017. No. of participants – 275 (Male: 159 Female: 116).
22. **Awareness and health checkup programme on “Heart and Diabetics”** at Bina Villa, Ward no.-130, Behala, Kolkata, dated 5th November, 2017. No. of participants – 20 (Male: 12 Female:08), Total Beneficiaries-: 152 (Male: 83 Female:69).
23. **Training programme on “Self Defense”** at Mrinmoyee Madhusudan Hall, Bidhan Chandra Vidyathi Bhavan, Jadavpur University Main Campus, dated 21st November, 2017. No. of participants- 70 (Female:70).
24. **Elocution programme on Patriotism and Nation Building** at Mrinmoyee Madhusudhan Hall, Bidhan Chandra Vidyathi Bhavan, Jadavpur University Main Campus, dated 3rd January, 2018. No. of participants – 20 (Male: 12 Female: 08).
25. **Awareness programme on science on the topic “Bigyan and Bigyan Manaskata”** at Mahendralal Sarkar Hall, Indian Association for Cultivation of Science dated 5th January, 2018. No. of participants – 50 (Male: 36 Female: 14).
26. **Awareness programme on health with education kits distribution programme** at Thakurpukur Innovative Centre for Game and Culture, 624/A, Diamond Harbour Road, PS+PO = Thakurpukur, Kolkata- 700063, dated 18th January, 2018. No. of participants – 30 (Male: 20 Female: 10), Total Beneficiaryies - 181(Male: 144 Female: 37).
27. **Pulse polio immunization programme** at Selimpur Netaji Colony, Dhakuria, Kolkata, dated 28th January, 2018. No. of participants- 10 (Male: 5 Female: 5), Total Beneficiaries- 45 (Male: 21 Female: 24).
28. **Celebration of National Youth Day** at Gandhi Bhavan, Jadavpur University Main Campus, dated 30th January, 2018. No. of participants – 351(Male: 195 Female:156).
29. **Blood donation camp** with voluntary organ donation programme at TEQIP Building, Jadavpur University Main Campus, dated 9th February, 2018. No. of participants – 30 (Male: 18 Female: 12) Total blood donors- 106 (Male: 76 Female: 30).
30. **State Integration programme** at University of Burdwan, Golapbug, Burdwan, dated 16th February, 2018. No. of participants – 14 (Male: 07 Female: 07).
31. **Awareness programme on Woman Health** at Mrinmoyee Madhusudan Hall, Bidhan Chandra Vidyathi Bhavan, Jadavpur University Main Campus, dated 9th March, 2018. No. of participants – 59 (Male: 5 Female: 54).
32. **Visited “Model Village”** at Arapanch, Sonarpur, South 24 Parganas, dated 10th March, 2018. No. of participants- 56 (Male: 28 Female: 28).
33. **Awareness programme on Environment with cleaning and beautification programme** at front of Nazrul Bhavan, Jadavpur University Main Campus, dated 16th March, 2018. No. of participants-77(Male: 39 Female: 38).
34. **Blood donation camp** with voluntary body donate programme at TEQIP Building, Jadavpur University Main Campus, dated 27th March, 2018. No. of participants - 20(Male: 10 Female: 10), Total Donor’s- 26 (Male: 18 Female: 8).
35. **Blood donation camp** with voluntary organ donation programme at Jadavpur University 2nd campus, Salt lake, dated 28th March, 2018. No. of participants- 36 (Male: 30 Female: 06), Total donor’s - 82 (Male: 58 Female: 24), Total Beneficiaries- 102 (Male: 72 Female: 30).
36. **Value education workshop** at New Seminar Room, Department of Civil Engg, Jadavpur University Main Campus, dated 29th March, 2018. No. of participants- 85 (Male: 43 Female: 42)

J.D. Birla Institute (Affiliated to Jadavpur University)

NSS (Units of Jadavpur University)

TOTAL NUMBER OF ACTIVITIES CONDUCTED: 51 (including two 7- day camps)

1. An **Organ Donation Awareness Campaign** was organized by the NSS volunteers (Commerce Department) in association with YES Foundation and Centre for Youth (C4Y) on 24th July 2017. One hundred and three Commerce-students pledged to donate their organs. A similar camp was also organized by the NSS volunteers (Science Departments) in collaboration with Anthyesti Foundation under the project AMRIT on 31st July 2017. Ninety nine Science-students pledged to donate their organs.
2. The following **Blood Donation Camps were organized:**
 - a) NSS Volunteers (Commerce Department) organized the camp in association with Lions District 322B1 Blood Bank and donated 49 units of blood on 14th September 2017
 - b) Management Department organized the camp in association with Leo Club and donated 80 units of blood on 31st October 2017.
 - c) NSS volunteers (Science Department) organized the **camp** in association with Blood Connect and Lions District 322B1 Blood Bank and donated 51 units of blood on 13th November 2017.
3. NSS Cell (Science & Commerce) organized **Eye Check-Up Camp** in association with GKB Lens Pvt. Ltd on 29th January 2018.
4. NSS Cell (Science & Commerce) organized a **Dental Check-Up Camp** in association with Kusum Devi Sundarlal Dugar Jain Dental College and Hospital on 5th February 2018. 133 students and 12 staff members participated in the event.
5. NSS Cell (Science) organized a camp on **Diet Counseling for Parents & Grandparents** on 7th February 2018. The session was a one to one interaction between the parents and the volunteers for effective and proper solutions to their diet problems and finding a practical and feasible way to improve their diet and lifestyle.
6. The following **Outreach Activities** were conducted:
 - a) NSS volunteers (Commerce Department) visited Navanir (old age home) on 21st July 2017 and **taught basic exercises and distributed a bottle of therapeutic oil** to all the inmates.
 - b) A 4-month outreach programme was undertaken by the NSS volunteers (Commerce Department) **to Teach Basic Mathematics, English and Soft Skills** to children at Tamas Society, an NGO.
 - c) NSS volunteers (HD Department) visited New Light Foundation on 4th August 2017 for conducting an **Awareness Programme on HIV/AIDS amongst sex workers** through a skit. The volunteers also distributed pamphlet and booklets dealing with the symptoms of HIV/AIDS and precautionary measures to be taken. They also taught the participants how to make jewellery boxes from old newspapers.
 - d) NSS volunteers (FSNM Department) visited Ektara Foundation on 12th August, 2017 to conduct a session on **Curbing Malnutrition** through demonstration on preparation of low cost recipes. A skit was put-up by the volunteers highlighting the importance of proper nutrition for the growth and development of children followed by a quiz on the same subject. Pamphlets on recipes low cost - nutrients dense foods were also distributed. The session ended with a discussion on maintenance cleanliness and hygiene while working in a kitchen.

Annual Report 2017-18

- e) NSS volunteers (ID Department) visited the Kalyan Ashram of Help Age Foundations on 12th September 2017 and conducted an **awareness programme on pleasant home solutions for the inmates of old age home**.
- f) NSS volunteers (Commerce Department) visited the Dakshin Kalikata Sevasram Orphanage on 27th October 2017 to conduct programmes with the objective of **spreading joy and happiness** among the children in the orphanage.
- g) NSS volunteers (TCFS Department) in association with the NGO, Save the Children organized an educative activity on **Good Touch & Bad Touch** with the students of primary section of surrounding municipality schools on 27th October 2017.
- h) NSS volunteers (FSNM Department) visited Parichay Foundation to **conduct a learning activity 'Quilling and Origami'** on 9th November 2017.
- i) A **Sit and Draw Competition** on the theme, **Green India, Clean India** was organized by NSS volunteers (Commerce Department) for children from Institute of Psychological and Educational Research, Sahay International, Sanlaap and Tamas Society on 18th August 2017.
- j) Screening of the film, '**Nil Battay Sannata**' followed by a discussion on '**Never give up on your dreams**' was organized by NSS volunteers (Commerce Department) on 11th August 2017 for children from Sahay International, an NGO .
- k) NSS Cell (Science) conducted an awareness programme on **Basic Health & Hygiene** for 90 children at The Refuge, an orphanage and distributed hygiene kits on 20th February 2018.
- l) NSS Cell (Commerce) **Distributed Fruits to the Needy & Poor** on the street on 6th February & 6th March 2018. Kolkata Police supported this activity.
- m) An awareness lecture on **Ill Effects of Drugs & Substance Abuse** was conducted by the NSS Cell (Commerce) on 16th February 2018 where a lecture was delivered by addiction counselors from The Genesis Foundation.
- n) NSS Cell (Commerce) organized a **Talent Show, Unique Souls** on 10th March 2018 for the children from several NGOs (Bhumi, Hope Foundation, Tamas Society and Children Sahay International) at the college. The children exhibited their talents through dance, drama, poems, drawing and skit.
- o) NSS volunteers (Commerce) are assisting KG to class 6 children at Disha Foundation to complete their school work apart from providing them **training to improve their reading and writing skills** and art on every Tuesday and Thursday from 1:00 am to 3:00 pm.
- p) NSS volunteers (Commerce) organized a campaign to express appreciation of the efforts put in by the **Traffic Police** to save millions of lives by distributing anti-pollution masks and refreshing lemonade to the traffic policemen at over 42 traffic crossing areas (Rabindra Sadan, Jadavpur, Barabazar, Salt Lake and Howrah) on 28th March 2018. The traffic police were overwhelmed by this gesture and highly appreciated the efforts made by the volunteers.
- q) NSS volunteers (Science) organized an awareness camp in collaboration with Kripa Foundation to sensitize students on **Ill Effects of Alcohol & Substance Abuse** on 5th March 2018.
- r) NSS volunteers (Science) organized an awareness campaign, **Pani Bacho** in collaboration with Save the Children and with assistance from Development Research Communication & Service Centre (DRCSC) on water conservation through a presentation, Nukkad Natak

Annual Report 2017-18

at various community centres (Bastuhara -Ward 57, Mallickpara - Ward 58, Muslim Camp - Ward 58, Beckbagan - Ward 57, Shuormari - Ward 58 and Boishali - Ward 58) on 21st & 23rd March 2018.

7. NSS volunteers (F:50 ,Commerce Department) organized a **7-day Camp, Reshaping Young Minds** with the objective of overall development of the girls from 13th-20th November 2017 at Sanlaap Home, Narendrapur. Forty teenage girls from the NGO participated in the camp.
 - a) Day 1: Know Me - NSS Camp started with an ice-breaking session in which passing the parcel game was played wherein the children introduced themselves and shared their life stories. Team building games were played. Prizes and gifts were distributed to the children on the basis of their performance.
 - b) Day 2: Healthy Me - Children were made familiar to good food habits with the help of a skit drama “Swach Raho, Swast Raho” and was followed by an interactive session with the children on personal hygiene and quiz. Prizes were distributed to the winners along with hygiene kits.
 - c) Day 3: Stronger Me - Children were taught basic exercises, yoga postures, meditation and self-defense techniques. A question-answer session was conducted on the various yoga postures, prizes were distributed to those who gave the correct answers.
 - d) Day 4: Creative Me - Children were taught to make bags out of old t-shirts, paper origami, tiara by using hairbands and paper flowers.
 - e) Day 5: Intelligent me - discussion on current affairs and interesting facts with the young girls at the NGO. Memory games and interactive session were conducted with the children and prizes were distributed to the winners.
 - f) Day 6: Good Me – Children were given session on meditation and its importance. A play was put up on ‘Honesty is the best policy’ and prizes were distributed to the children based on their performance.
 - g) Day 7: Confident Me - Children were taught various hair styles and draping styles.
8. NSS volunteers (F: 50, Science) organized a **7-Day Camp** to train 30 women from the slum of Tangra in making jewellery with an aim to financially empower them. The products made during the camp will be put for sale at the college premise and the profit earned shared with the participants.
9. **Fund Raising & Donation:**
 - a) Commerce & Science students collected a fund of Rs. 8500/- by selling 850 Communal Harmony stickers on behalf of the **National Foundation for Communal Harmony**.
 - b) All students, faculty members and administrative staff members (Main Campus) **donated 1214 stationery hampers** (each containing two notebooks, a pencil and an eraser) for the underprivileged children.
 - c) **Biscuit packets were distributed** to the children at Calcutta Rescue, an NGO on 17th July 2017 by the NSS volunteers (Science Departments).
 - d) NSS volunteers (ID Department) collected and distributed **old newspapers and magazines** to Calcutta Blind School on 29th July 2017 and taught the students to make useful articles from paper mache.
 - e) **Old clothes were collected and distributed** to the inmates of the Missionaries of Charity, Kolkata on 30th October 2017 by the NSS volunteers (TCFS Department).

Annual Report 2017-18

- f) 1st year BBA students donated clothes, stationeries and eatables for **Rahat Flood Relief** in association with Goonj, an NGO on 4th September 2017.
 - g) NSS volunteers of the HD Department collected 549 notebooks from Science Departments and distributed to the children of **GOONJ**, an NGO organization on 1st November 2017
10. **Bulletin Boards** were displayed to create awareness on following themes:
- a) **World Hepatitis Day** by NSS volunteers (Commerce Department) on 5th July 2017.
 - b) **World Diabetes Day** by NSS volunteers (Commerce Department) on 14th November 2017.
 - c) **Women's Equality Day** by NSS volunteers (Commerce Department) on 2nd August 2017.
 - d) **World Heart Day** by NSS volunteers (Commerce Department) on 29th September 2017.
 - e) **Is Man Not Enough** highlighting the redefinition of traditional masculinity was put-up on 24th February 2018.
 - f) **Zero Discrimination Day** highlighting the annual day celebrated by the UN and other international organizations to promote equality on 1st March 2018.
 - g) **Press for Progress** highlighting extraordinary acts of women from various fields on 8th March 2018.
 - h) **World Down Syndrome Day** highlighting the exceptional achievements of people with Down's syndrome on 21st March 2018.
 - i) **World Autism Day** showcasing achievements of renowned people with Autism on 28th March 2018.
11. With a view to enhance **Social Awareness** among students, Shri. Sourabh J. Sarkar of 'Karmyog' was invited by the Management Department on 8th September 2017 to deliver a lecture on Seva - The ultimate purpose of life
12. Ms. Nidhi Poddar, 2nd year HD student is undergoing an internship with the **Art of Living** and has also volunteered to be a part of Robin Hood Army, a volunteer based organization that works to distribute surplus food from restaurants to the less fortunate in cities across India and eleven other countries.

NATURE CLUB ACTIVITIES

- 13. A special lecture-cum-workshop on **Vermi-Composting** was organized by the Nature Club of the college for 3rd year FSNM students on 25th July 2017.
- 14. The Nature Club planted seasonal vegetables like bitter gourd, curry leaves, basil leaves and green chilly in the **Kitchen Garden**.
- 15. **Brick Fencing** of the bushes in the central courtyard was done by the Nature Club.
- 16. Nature Club members of the HD Department conducted a session on "**Save Water Save Life**" for ID, HD, FSNM and TCFS students respectively on the 5th, 11th, 12th & 14th September 2017.
- 17. The BBA students put-up **Potted Plants** in the campus and stickers, '**Save Electricity**' on all switch boards of the college to spread awareness on the matter as a part of the green initiatives.
- 18. A **garden made from recycled waste products** like drums, scooters, hospital stands, nuts & bolts, metal chips, etc was also set-up by the students of the ID Department and inaugurated by Mr. Nandu Belani, President, Credai Bengal & Managing Director, Belani Group.

Institute of Business Management, 2017-2018

NSS (Unit of Jadavpur University)

Special Camp:

A special camp on “**Coal Kingdom: Environmental Issues and Challenges**” was organized by Institute of Business Management, The National Council of Education, Bengal in collaboration with NSS, Jadavpur University & Eastern Coalfields Limited (ECL), during March 06, 2018 – March 10, 2018. With the support and guidance of the members – our 50 student volunteers were participated.

Activities taken up:

- Start from Kolkata and reach Dhadka Training Hostel of ECL
- Lecture on issues on Colliery at Dhadka Training School, ECL
- Visit Colliery village at Perbalia and interact with them. Also meet other local people and religious places at Dishergarh village
- Visit one underground Coal mines at Kunustoria
- Visit one open Coal mines at Kunustoria
- Lecture on environmental issues on Colliery at Kunustoria Training School
- Visit one underground Coal mines at Chinakuri
- Visit one underground Coal mines at Chinakuri
- Visit at Sanctoria and Kallaha –Some villages and local people

Regular Activities:

1. Society for Community Intervention and Research (SCIR) adopted 7 drop out girls 4 years back, who had no scope to advance their studies, as they belong to poorest of the poor families. With sustained effort and coaching they passed Class X and now after 2 years of coaching could pass the Higher Secondary examination. Out of 7 girl students 1 has secured STAR Marks with 80% Marks. 4 students secured 1st Division with above 60% marks and 2 students got 2nd division with above 50% Marks. They are now admitted in various colleges according to their Marks and will get free coaching in the bridge course centre of (SCIR) with an objective to make them graduate and become self supported. Last year our special camp was organized at their centre with an objective that through different activities the students should make them enthusiastic, happy and motivate to move further. This year our NSS volunteers felicitated these 7 Achievers on 26th March 2018.

2. **Environmental Discourse**

How Healthy are the Children of Indian Sundarbans? – A film Show

The Sundarbans, famous for its iconic Royal Bengal Tiger: a complex network of tidal waterways, mudflats and small islands of salt-tolerant mangrove forests, is also home to almost four-and-a-half million people living in abject poverty, chronic deprivation and acute suffering from climatic adversities. Children of Sundarbans are the most vulnerable to health shocks due to unacceptable levels of under-nutrition and high prevalence of common communicable diseases. The basic health needs are influenced by Climate, Topography, Society, Livelihood and Formal health care structure. On 29th March, 2018, with the help of a documentary film show viz. “How Healthy are the Children of Indian Sundarbans?” at Indumati Sabhagriha of IBM, The NCE, Bengal, NSS unit of IBM, tried to communicate message to our students volunteers about the health issues of the children of Sunderbans due to different problems of environment. Our 150 student volunteers attended the programme.

REGIONAL CENTRE
NATIONAL AFFORESTATION & ECO-DEVELOPMENT BOARD
(Ministry of Environment, Forests & Climate Change, Govt. of India)

Phone : 2414-6979/6886
Int. : 2457-2324
Coordinator : Professor Asis Mazumdar

1. B. Number of Faculty Members/Scientists : 01 (Coordinator) + 01 (Sr. Scientist) + 01 (Scientist) + 01 (Research Assistant)

2. A. Area of Research Activities: (Broad Areas)

1. Afforestation & Eco-development
2. Joint Forest Management
3. Forest Development Agency
4. Green India Mission
5. Small & Micro Forest Enterprise
6. Soil & Moisture Conservation
7. Indigenous Technologies
8. Capacity Building & Forest Conservation
9. Wasteland Development & Biodiversity Conservation
10. Soil Water Plant Relationship
11. Impact of Forested Watershed on Stream Flow and Water Quality
12. Watershed Management
13. Natural Resources Management
14. Clean Development Mechanism
15. Carbon Sequestration
16. REDD+

B. Major Research Project:

Coordinator	Name of the Project	Funding Agency
Prof. (Dr.) Asis Mazumdar		

Sample Checks of Afforestation/Tree Planting activities under 20 Point Programme in the States of Manipur, Mizoram, Nagaland, Sikkim, Odisha and Jharkhand, National Afforestation & Eco-Development Board, Ministry of Environment, Forests & Climate Change, Govt. of India, New Delhi

Mid-term Evaluation (2017-18) of the CAMPA activities undertaken by Dumka Forest Division, Jharkhand, Dumka Forest Division, Department of Forest Environment & Climate Change, Government of Jharkhand

Floral Inventorization and other related works in Kakrajhore, Susunia and Jhalda New MPCAs in South Bengal, Research Circle, Directorate of Forests, Government of West Bengal

3. B. Seminar/Workshop/Conference/Symposium Attended:

Name of the teacher/Scientist Name of the paper presented (if any) Name of the Seminar Place Duration

(Ms. Rupa Shaw Sanyal) Dr. Sanjay Bala Prof. Asis Mazumdar Conservation of Medicinal Plants- the need of the hour for human kind International Seminar on “Recent Trends in Science Towards Sustainable Development” A. P. C. College, Calcutta University August 6-7, 2018

C. Seminar/Workshop/Conference/Symposium Organized:

Sl. No. Name of the Workshop /Training Programme DurationPlace

1. One Week refresher training course for the Indian Forest Service Officers on “Holistic Approach to Watershed Management through People’s Participation” November 6-10, 2017, Jadavpur University, Kolkata

4. B. Articles Published in Journals:

International

Name of the Author Name of the Article Name of the Journal Volume and Page no. Date of publication

R. Shaw Sanyal, S. Bala, A. Mazumdar

Ethnomedicinal practices and phytochemical assessment of *Uraria lagopoides* (L.) DC. around Mayurjharna Reserve, Eastern India. Journal of Medicinal Plants Research Vol. 11(35), pp. 556-561. 2017

6. Major Achievements:

- The Regional Centre over the years has played significant role in Human Resources Development Activities by organizing over 189 workshops, 234 Training Programmes for thousands of participants of the State Forest Departments (West Bengal, Jharkhand, Bihar, Sikkim and Andaman & Nicobar Islands) as well as for the grass root level Community / Organizations.
- Conducted more than **140** important **Research Studies** and 25 Success Stories/Case Studies covering a wide spectrum of pertinent issues on Natural Resources Management in Eastern Region.
- Carried out the field monitoring and evaluation work for over **367 Centrally Sponsored Projects** (AOFFP, IAEDP, NTFP, IPVM, Sample Check etc.) in last 10 years throughout the Country.
- Prepared **4 Status Reports** on Natural resources of three different states and also several Wasteland Maps.
- Developed cost-effective Agro-forestry model for Red Lateritic Wastelands and Biological Reclamation for abandoned Collieries model.
- Formulation of **Joint Forest Management Strategies and Norms for the Union Territory of Andaman & Nicobar Islands** under the sponsorship of Andaman & Nicobar Administration.

- The Centre has evaluated **64 projects of National Afforestation Programme (NAP)** implemented through Forest Development Agencies (FDAs) in Arunachal Pradesh, Assam, Bihar, Orissa, Mizoram, Manipur, Sikkim, Uttar Pradesh and West Bengal.
- Organized **six “Refresher Course for Indian Forest Service (IFS) Officers”** in association with the School of Water Resources Engineering, Jadavpur University, which is unique among the Regional Centres of NAEB.
- Developed the **“Strategic Plan and Financial Framework for Large-Scale Development Programme of Sundarban Biosphere Reserve”** funded by Sundarban Biosphere Reserve (under UNDP project).
- Established the first **Small and Micro Forest Enterprise (SMFE)** in India under Dhalbhum FDA, East Singhbhum, Jharkhand and replicated the same in **Seraikela Forest Division in Jharkhand** and **Purulia Forest Division in West Bengal**.
- Registered as **one of the 25 Business Incubators** by Ministry of Small and Micro Enterprises (MSME) to promote innovative ideas and young entrepreneurs and currently 5 such ideas are being implemented.
- Prepared the **“State Report on National Programme on Promoting Medicinal Plants Conservation and Traditional Knowledge for Enhancing Health and Livelihood Security for West Bengal (UNDP-CCF-II Project No. 13047)”** funded by Research Circle, Directorate of Forests, Govt. of West Bengal.
- Implemented project on **“Strategic Knowledge Management, Advisory Support and Capacity Building for Wood Based SMEs to Enhance Market Potential through Sustainable Business Practices”** funded by WWF-India, New Delhi as part of EUROPEAN Commission - SWITCH ASIA project on Sustainable and Responsible Trade Promoted to Wood Processing SMEs through Forest and Trade Networks in China, India and Vietnam.
- Prepared 2 reports on **“Meta Evaluation of Different Evaluation Programmes on NAP Implemented through FDAs in India”** based on evaluation reports of all Indian states.
- Conducted a consultative study on **“Landscape Survey and developing Micro-plan for enhancement of Forest Quality and improvement of Ecosystem Services in the Identified Districts of Odisha”** in partnership with Indian Institute of Forest Management (IIFM) funded by Department of Forests, Government of Odisha under **Green India Mission**.
- Conducted **“Evaluation of Central Sponsored Schemes implemented by Sundarban Biosphere Reserve”** funded by Sundarban Biosphere Reserve, Directorate of Forests, Govt. of West Bengal.
- Completed **mid-term evaluation of activities implemented (2009-10 to 2014-15) in the state of Sikkim by ‘State CAMPA’**, Sikkim, Forests, Environment & Wildlife Management Department, Govt. of Sikkim in 2016
- Completed **“Examination of Microplans and Compilation of APOs in the state of West Bengal”** funded by West Bengal Forest and Biodiversity Conservation Project, Directorate of Forests, Government of West Bengal.

Annual Report 2017-18

- **“Technical assistance for evaluation of NAP implemented through WBSFDA in West Bengal”** funded by WBSFDA, Directorate of Forests, Government of West Bengal
- Technical Assistance for **“DPR preparation for ‘Forestry Interventions for Clean Ganga in the state of West Bengal’** funded by WBSFDA, Directorate of Forests, Government of West Bengal
- Conducted a consultative study on **“Landscape Survey and Capacity Building for preparation of microplan in selected landscape of West Bengal for Preparation of Perspective Plan under Green India Mission in West Bengal”** funded by Directorate of Forests, Govt. of West Bengal
- Implementation of **Medicinal Plants Conservation Area (MPCA)** in Kankrajhore, West Midnapore, West Bengal by Silviculture (South) Division, Directorate of Forests, Govt. of West Bengal
- Prepared **Local Volume Table** for Roadside Trees of Selected Species in West Bengal by West Bengal Forest Development Cooperation, Directorate of Forests, Govt. of West Bengal.

REGIONAL-CUM-FACILITATION CENTRE (RCFC)

(EASTERN REGION)

NATIONAL MEDICINAL PLANTS BOARD (NMPB)

(Ministry of AYUSH, Government of India)

Phone : 2414-6979/6886
Int. : 2457-2324
Nodal Coordinator : Professor Asis Mazumdar
E.mail : rfcncmpb@jadavpuruniversity.in

1. **B. Number of Faculty Members/Scientists** : 01 (Nodal Coordinator) + 01 (Regional Director) + 01 (Deputy Director) + 01 (Consultant)
2. **A. Area of Research Activities:** (Broad Areas)

Regional-cum-Facilitation Centre (RCFC), National Medicinal Plants Board (NMPB), Jadavpur University has been established as one of the seven such Centres in different regions (East, West, North-I, North-II, South, Central and North East) of the country under the Ministry of AYUSH, Government of India during 2017-18. This RCFC, NMPB for Eastern Region will act as one stop center for the growers, cultivators, researchers, traders and other stakeholders of medicinal plants. The centre caters the state of Bihar, Jharkhand, Odisha and West Bengal and would function in close co-ordination with State Medicinal Plants Board (SMPBs), the State implementing agency of the medicinal plants component of the AYUSH Mission. The RCFC, NMPB is to provide a service window for growers of medicinal plants for supporting

conservation, development, marketing, cultivation and provide handholding support to stakeholders in terms of technology dissemination and also for establishing primary processing facilities etc. besides undertaking identified research relevant to the area concerned as and when assigned.

The Major Functions of the RCFC, NMPB are:

- To act as multifaceted facilitating arm of NMPB
- Development of Quality Planting Materials (QPM)
- Development of Agrotechnology of medicinal plants
- Setting up of primary processing, grading, marketing facilities
- To develop managerial and technical skill among the stakeholders
- Facilitation of sale of medicinal plants and produces
- To provide inputs on conservation, sustainable cultivation, technology upgradation, training & research
- Domestication of wild species in demand
- To function as a platform for bringing together the different stakeholders
- To organize periodical meetings, workshops, consultation of stakeholders
- To review of the projects sanctioned by NMPB to various organizations
- To collect and maintain database of all concerned Sectors of the Medicinal Plants in the states and Integration of database of various States of the region concerned.
- To develop strategy for Information, Education and Communication (IEC) and its implementation.
- To document and disseminate success stories of activities supported by NMPB.

3. B. Seminar/Workshop/Conference/Symposium Attended:

Name of the Teacher/Scientist Name of the Paper Presented (if any) Name of the Seminar Place Duration

Dr. Sanjay Bala

Review Meeting to examine the proposed draft structure of “National Policy of Medicinal of India” National Academy of Agriculture Science, NASC, Pusa, New Delhi, 22nd November, 2017

Prof. Asis Mazumdar

Stakeholders’ Meeting of the Medicinal Plants Sector, Goa 25th January, 2018

Dr. Sanjay Bala

Inauguration cum Launch Workshop of the RCFC, Southern Region, KFRI, Peechi. Thrissur, Kerala, 22nd March, 2018

Prof. Asis Mazumdar

One day Launch Workshop of the RCFC, Central Region, SFRI, Jabalpur. Jabalpur, Madhya Pradesh, 18th May, 2018

Prof. Asis Mazumdar & Dr. Sanjay Bala

One day Workshop on use of e-CHARAK and Voluntary Certification of Medicinal Plants Produce as a platform for promotion forward-backward linkage in MAP sector, Chandigarh 28th June 2018

C. Seminar/Workshop/Conference/Symposium Organized:

Sl. No. Name of the Workshop /Training Programme Duration Place

1. Stakeholders' Meet on Medicinal Plants, May 10, 2018. Jadavpur University, Kolkata

6. Major Achievements:

- The RCFC has organized one workshop in Kolkata and another workshop in Bhubaneswar for the promotion of medicinal plants by bringing all stakeholders in one platform.
- The RCFC has organized one training programme in Bhubaneswar for the promotion of cultivation of medicinal plants and one programme in Patna for value addition and marketing of medicinal plants by promoting Farmers Producer Companies (FPOs).
- A suitable plot (0.49 ha.) has been identified inside University campus for raising QPM of Medicinal Plants (approx. 10,000 – 15,000 nos.). The establishment of nursery for raising QPM is under process.

RURAL & CRYOGENIC TECHNOLOGIES
(Funded by Department of Higher Education,
Science & Technology and Bio-technology
Govt. of West Bengal)

Phone : 2414-6747/6735/6965

Int. : 2457-2585

Director : Prof (Dr). S.C.Sarkar

E.mail : rct.centre@jadavpuruniversity.in

1. **Number of Associated Faculty Member:** **08**
2. Keeping in view of the recommendation of **National Committee of Science and Technology** set up by Government of India in 1973, **Advanced Centre of Cryogenic Research – Calcutta (ACCR)** came into being on 2nd November 1979 as a R & D Institute of Cryogenics. As per the **advise of the Department of Science & Technology**, Government of West Bengal, the Centre was renamed as **Centre for Rural & Cryogenic Technologies (CRCT) w.e.f. February 11, 2005** for making it a more meaningful.. The Centre is an affiliated unit of **Jadavpur University** and academically recognized for offering **Ph.D Degree under faculty of interdisciplinary studies, Law & Management (FISLM)**.
3. **Area of Research**

Promoting research in the filed of cryogenic and allied science for its potential development in education & training towards spread of knowledge in the multi-dimensional fields for the

improvement of the human society. The work aimed at solving the difficulties of the society, planning of education and training to create trained man power for the cryogenic science, cryopreservation including rural technology and the other relevant areas by utilizing knowledge of the this front line discipline.

A. Research Activities Under

- i) Cryogenics in production, maintenance, measurement, control and its utilization for scientific investigation.
- ii) Investigation of phenomena, techniques and concepts of fertilizer, steel, petrochemicals, material science, gas purification, environmental science, agricultural chemistry, food science, biology, chemicals & pharmaceutical science.
- iii) Defense, atomic energy and space science.

The Centre has main three active wings

I. CRYOTECHNOLOGY DIVISION.

II. CRYOBIOLOGY DIVISION

III. CRYOINSTRUMENTATION DIVISION.

B. Work Done At Cryotechnology Division

Summer Internship Training Work

A student from National Institute of Technology, Agartala completed his summer training in Cryogenics at Centre for Rural & Cryogenic Technologies.

Ph.D work

Thesis of Research Scholar Sri Debajyoti Roy Chowdhury is ready for Submission..

Ph.D (Science) Registration for JU

One Research fellow has registered for PhD (science) programmes in March, 2018.

C. Work carried out under the guidance of Professor B K Chaudhuri at Cryoinstrumentation Division in collaboration with Cryotechnology Division.

We have successfully synthesized PLC-Graphene oxide nanocomposite solid films and electrospun fibrous mesh films for low temperature sensor applications as well as for biomedical applications. The characterization of films by XRD, SEM and FTIR have been made. Conductivity measurements are in progress.

D. Work carried out under the guidance of Professor G C Mazumder at Cryobiology Division

1st year of the project "IMPROVEMENT OF HUMAN SEMEN QUALITY UTILISING TWO NOVEL INOVATIONS: FARM VERTICAL VELOCITY AND MOTILITY PROMOTING PROTEINS" is successfully executed.

E. One Research scholar Miss Shrabani Ghosh joined the institute on March 12, 2018 for the project title "Characterization of polymer composite and allied Cryogenics" under Prof (Dr) S.C. Sarkar at cryotechnology division.

F. Academic Programme executed during the year 2017 -18

Seminar/Symposium/Workshop:

The Centre conducted a National Workshop under the banner CRYO- 2018 (Current Trends in Cryogenics) on 13th March, 2018, in which honourable dignitaries Dr T. John Tharakan, Group Head, Advanced Propulsion Research Group, Liquid Propulsion System Centre, Indian Space Research Organization, Prof (Dr) Pushan Ayyub, Senior professor and Chair of the

Department of Condensed matter physics and Materials Science, Tata Institute of Fundamental Research, Prof (Dr) Tridib Kumar Goswami, Agricultural and Food Engineering Department, Indian Institute of Technology, Kharagpur, Prof (Dr) N.D. Das Former Advisor Scientist-G, Department of Science and Technology, Govt. of India, New Delhi, Prof (Dr)T.K. Nandi, Cryogenic Engineering Centre, Indian Institute of Technology, Kharagpur, Dr Dirtha Sanyal (Scientist-G), Variable Energy Cyclotron Centre, Department of Atomic Energy, Govt. of India participated in deliberation. The programme was appreciated by all the participants and academicians and benefited a large cross section of the teaching, research, and student communities in this interdisciplinary field of science and Technology which have immense societal value.

Arrival of Cold Facts Journal

Cold Facts is an international publication for cryogenics users, researches and student. It is the only magazine exclusively dedicated to the Science & Technology of very low temperatures as well as focuses on cryogenic engineering and applications. **Cold Facts** bring news about meeting and detailing with advances on such subjects as helium cryogenics, cryomagnets, cryocoolers, cryogenic dewars, pulse tubes, instrumentation.

G. Publication:-

- i) D. Roy Chowdhury, N.R. Chakraborty and S.C. Sarkar “Schmidt cycle analysis in the quest of Designing Stirling Cryocooler” **Progress in Superconductivity and Cryogenics Journal**, Vol. 19, No 4, pp 12-17, 2017.
- ii) D. Roy Chowdhury and S. C. Sarkar, “Exergy Analysis of a Reverse Stirling Cycle Cryogenerator for Generating Liquid Nitrogen”, **Chemical Science Review and Letters**, 6(23), 1687-1699, 2017.
- iii) D. Roy Chowdhury, N.R. Chakraborty and S.C. Sarkar “Thermodynamic efficiency evaluation of a Low pressure Turbo Expander Cryogenic cycle based on Exergy analysis”, **Thermal Science Journal**, (online first), 2017, pp.1-12, DOI- <https://doi.org/10.2298/TSCI170406230R>.
- iv) D. Roy Chowdhury, N.R. Chakraborty and S.C. Sarkar “Development of a Cryogenic Condenser and Computation of its Heat Transfer Efficiency based on Liquefaction of Nitrogen Gas” **Mechanics and Mechanical Engineering Journal @ Technical University of Lodz Poland**, accepted
- v) B.K. Chaudhuri, B. Chaudhuri and S.C.Sarkar “Conducting Cryo-gel polymer composites materials as potential biomaterial for tissue engineering scaffold for wound healing and drug delivery”, 2nd Regional Science and Technology Congress, (Dec 14-15, 2017), University of Kalyani, WB, Oral, Page-80.
- vi) B. Chaudhuri, B. Mondal, S.C. Sarkar and B.K. Chaudhuri “Novel biocompatible and antimicrobial PVA/PVP cross linking polymer and graphene oxide nanoplatelets (GONPs) composite films for biomedical applications”, 2nd Regional Science and Technology Congress, (Dec 14-15, 2017), University of Kalyani, WB, Oral, Page-81.

H. Academic Activities

i) Paper setter of Calcutta University

Professor (Dr) S C Sarkar act as an paper setter at Calcutta University.

ii) Paper Reviewer

International paper reviewed for reputed journal under engineering

iii) Member

Professor (Dr) S. C. Sarkar has been invited to serve as a member for different society on cryogenic.

SYLFF PROGRAMME

Int. : 2457-2389

Director : Professor Joyashree Roy

In 2003-2004, Jadavpur University became the First Indian University among the 69 SYLFF (The **RYOICHI SASAKAWA YOUNG LEADERS FELLOWSHIP FUND**) Institutions across 44 countries to earn SYLFF status and receive an endowment of one million US dollars (US\$1,000,000) from the Nippon Foundation. The JU-SYLFF program provides a unique opportunity for students in Social Sciences and Humanities as fellowships are awarded to postgraduate students whose studies focus on the broad theme: Tradition, Social Change and Sustainable Development and those which adopt a Holistic Approach, that is, any issue or problem relevant to contemporary Indian society. It provides unique research opportunity to the postgraduate students of the M. A. and M. Phil. and Ph. D. level and is one of the highest-valued scholarships in India.

JU-SYLFF Fellows: work in progress

1. Purbasha Auddy
2. Sudeshna Dutta
3. Sujaan Mukherjee
4. Sritama Chatterjee
5. Shounak Adhikari

JU-SYLFF SRA Awardees:

1. Purbasha Auddy: Visited School of Oriental and African Studies (SOAS), University of London, UK.
2. Sudeshna Dutta: Visited University of Hawai'i, Manoa.
3. Sujaan Mukherjee: Visited the British Library, with support from Professor Mark Crinson at Birkbeck, University of London

Orientation Courses Organized:

The annual Sylff Pre-Application Orientation was held at Professor Anita Banerjee Memorial Hall on 7th September, 2017. The objective was to encourage and guide students to develop a research oriented mind. During the day, participants were introduced to the various facets of the Sylff programme: its goals, multidisciplinary approach, leadership initiatives, social action programs et al. The programme was initiated with an introductory speech by the JU-Sylff Project Director, Professor Joyashree Roy. SYLFF expert Professor Partha Pratim Basu, Department of International Relations then delivered a speech which was followed by a speech by the Dean of Arts, Prof. Subhasis Biswas. Prof. Roy then showed a presentation and conducted an interactive Q&A session with the participants. Current fellows also shared their experience of being part of the programme and provided insights on their areas of research.

Lecture Series Organized:

The **JU- SYLFF Lecture Series** was started in April 2016. The idea was to involve academic experts and graduate SYLFF fellows for the academic enrichment of the SYLFF community and university students in general. An overview of the lectures delivered:

- On 15th June, 2017, Dr. Sulagna Maitra, NOHA Lecturer and Academic Coordinator at University College, Dublin, delivered a lecture on *Humanitarian Action: Introduction to principles and contemporary challenges*.
- On 25th July, 2017, Dr. Nilanjan Das, Assistant Professor at New York University Shanghai delivered a lecture titled *Tolerance, Pluralism and Public Reason in Classical India*.
- On 15th January, 2018, Dr. Shuhita Bhattacharjee, Assistant Professor at the Department of English, Presidency University, Kolkata, delivered a lecture titled *Hijab, the Search for Freedom and the Meaning of Rebellion: the Case of Marjane Satrapi's Persepolis*.
- On 26th February, 2018, Professor T. David Ito, Professor at the Graduate School of Applied Religious Studies, Sophia University, Japan, delivered a lecture titled *The Concept and Sense of "Others" in Japan: Social and Scientific Implications*.
- On 12th June, 2018, Mr. Sagar Taranga Mandal, Assistant Professor, University of Kalyani, delivered a lecture titled *In and Out of the Spotlight: Notes on Revisiting the Refugee*. The JU-SYLFF Association has also published the 11th issue of *Fellows*, the annual newsletter.

The JU-Sylff Association was the first to apply for and be awarded the **Local Association Networking Support (LANS)** grant from the Sylff Association in Tokyo. The grant consists of a maximum US\$5,000 to cover the long-distance transportation costs of participating fellows. On 21st and 22nd March 2018 the association organized the LANS Meet in Kolkata, India, inviting JU-SYLFF fellows from Britain, Ireland, and other parts of India, and Ms. Mari Suzuki, the Director for Leadership Development at the Tokyo Foundation. On 21st March, 2018 graduated and current fellows met to discuss their own individual research and brainstorm over collective goals to address social, cultural, and environmental issues that concern us all in different ways. JU-SYLFF Fellows who are currently working in different institutions across the world made presentations and shared stories of their diverse and inspiring experiences, which served to encourage all the participants in pursuing their ambitions with renewed vigour. Apart from the fellows, many mentors of the JU-SYLFF Programme, including Professor Emerita Supriya Chaudhuri, Professor Amlan Dasgupta, Professor Samantak Das, Professor Paromita Chakravarti, Professor Sibashish Chatterjee, and Professor Kavita Panjabi, were present for the Meet. Members of the JU-SYLFF Steering Committee attending the Meet were Mr. Gour Krishna Pattanayak and Dr. Sanjay Gopal Sarkar, Finance Officer and Joint Registrar respectively of Jadavpur University. The Mentors and the Fellows were able to brainstorm and learn from Ms. Suzuki other SYLFF Plus Programmes the JU-SYLFF Associations may apply for. In the august company of the JU-SYLFF fraternity on Day 1 of JU-SYLFF LANS MEET 2018, the 11th issue of *Fellows*, the annual JU-Sylff newsletter, which addresses questions of academics' role within and outside the walls of academia and their responsibility toward society at large, was introduced by Ms. Suzuki.

Unlike other years, the JU-Sylff Association combined this year's **Social Action Program**

with the LANS Meet. Graduated Sylff-JU fellows, who had previously organized and visited the hospital during their time under JU-SYLFF, were able to revisit the hospital in a large group on 22nd March, 2018. Ms. Mari Suzuki accompanied the fellows on their visit to the hospital. The Sylff-JU Association presented the residents with some basic medical supplies and the fellows decorated the walls of the inmates' wards with colourful stickers. The fellows spent the day with the inmates and also organized lunch for them. Later in the day, a film was screened for the patients and staff there, which they thoroughly enjoyed. It was an enriching experience for the Fellows and mentors to be able to reach out beyond the realm of academics and contribute to the community in small ways.

Activities of JU-SYLFF Fellows :

1. Madhuchanda Ghosh

Books/Monographs/ Articles Published:

- Book Chapter entitled : "India's Economic Dynamism and India-Japan Relations" in Takenori Horimoto (ed.) *Introduction to Contemporary India-Japan Relations*, University of Tokyo Press, March 2017
- Article entitled: "India's Strategic Convergence with Japan in the Changing Indo Pacific Geopolitical Landscape", published in the *Asia Pacific Bulletin of East West Center Washington DC.*, August 16, 2017

Study Tour Attended:

- Visited the United States of America under the invitation of the US State Department on a study tour for three weeks in February, 2018.

2. Shyamasree Dasgupta

Seminar/Workshop/Conference/Symposium Attended:

- Visiting Researcher in Energy Studies Institute, National University of Singapore, Singapore in December, 2016.
- Presented the paper "*Energy use Behaviour of Manufacturing Industries in India: An Analysis using KLEMS framework*" in the Seventh National Seminar on Annual Survey of Industries organized by Central Statistical organization, Industrial Statistics Wing, Ministry of Statistics and Programme Implementation, Government of India. Kolkata, India. (26th September 2016).
- Seminar on "Analyzing long-run trends of energy demand in the manufacturing industries in India" at Energy Research Institute, National University of Singapore, Singapore (8th August, 2016)
- "Understanding the drivers of CO2 emissions in India: A decomposition analysis", Paper accepted for poster presentation in the 2nd International Conference on Climate Change 2018, held in Colombo, Sri Lanka (15-16 Feb, 2018).
- "The pattern of inter-fuel substitution in energy intensive manufacturing industries in India during 2000-01 - 2011-12"- paper (with Prateek Gauba and Shivam Satija) presented in the 40th International Seminar of International Association for Energy Economics (IAEE), Singapore, June 19-22, 2017.

Annual Report 2017-18

- “What Affects the Willingness to Pay for Arsenic Safe Drinking Water? A Case Study in Rural West Bengal”, paper presented in the Ninth Biennial Conference of Indian Society for Ecological Economics, held in Trissure, Kerala, India (8-10 November, 2017)

Articles/ Papers/ Works Published in Journals:

- Dasgupta, S., Satija, S. and Gauba, P. (2017). “Energy use Behaviour of Manufacturing Industries in India: An Analysis using KLEMS framework”. *Journal of Industrial Statistics*. 6(1), 72-88.2017.
- Dasgupta, S. and Roy, J (2016). “Analysing energy intensity trends and decoupling of growth from energy use in Indian manufacturing industries during 1973-74 to 2011-12”, Article in Press. DOI 10.1007/s12053-016-9497-9. *Energy Efficiency*.
- Roy, J., Dasgupta, S. and Chakraborty, D (2017). “Deep decarbonisation in industries: what does it mean for India?” Wuppertal Institute’s brochure on the LCS-RNet conference 2016. Wuppertal Institute for Climate, Environment and Energy, Wuppertal, Germany.
- Dasgupta, S., Gauba, P., Satija, S. (2017) “The pattern of inter-fuel substitution in energy intensive manufacturing industries in India during 2000-01 - 2011-12” in the Proceedings of 40th International Conference of International Association of Energy Economics. Singapore. link: Online Proceeding.
- Dasgupta, S. and Roy, J. (2017) “Analysing energy intensity trends and decoupling of growth from energy use in Indian manufacturing industries during 1973-74 to 2011-12”, *Energy Efficiency*, 10 (4), 925–943 (Springer).
- Dasgupta S., Sankhyayan P. (2018) A narrative analysis of state-level renewable energy policies in India. In: Gautam A., De S., Dhar A., Gupta J., Pandey A. (eds) *Sustainable Energy and Transportation. Energy, Environment, and Sustainability*. Springer, Singapore.

3. Rimple Mehta

Major Research Project:

- March 2016- present: Researcher for a Harvard University South Asia Institute project “The 1947 Partition of India: The Demographic and Humanitarian Consequences”
- March 2016- February 2017: Researcher for a School of Women’s Studies, Jadavpur University project titled “Love, Law and Labour: Child Marriage in West Bengal; focus of research being Cross-Border Child Marriages along the Indo-Bangladesh border.

Seminar/Workshop/Conference/Symposium Attended:

- Presented a paper titled “Time is on My Side: Negotiating Space and Time in Prison” at international workshop titled “Critical Prison Studies, Carceral Ethnography, and Human Rights: From Lived Experience to Global Action” organized by Debra Parkes (University of Manitoba), Gillian Balfour (Trent University), Joane Martel (Université Laval), Kelly Hannah-Moffat (University of Toronto in Mississauga), Dawn Moore (Carleton University) and Sarah Turnbull (University of Oxford) at International Institute for the Sociology of Law, Onati, Spain from 23-24 June 2016.
- Presented a paper titled “‘Illegal’ Bangladeshis in Akhand Bharat: A Shameful Other?” at international workshop titled “Race, Criminal Justice and Migration” organized by Border Criminologies, Centre for Criminology, University of Oxford, at University of Oxford, UK from 19- 20 September 2016.

Annual Report 2017-18

- Presented a paper titled “‘Illegal’ Bangladeshis in Akhand Bharat: Inscriptions of race and religion on citizenship” at International seminar titled “Shifting Significations of Borders in Contemporary South Asia and the Americas” organized by the Centre for Studies in Latin American Literatures and Cultures (CSLALC) & Centre of Advanced Study (CAS), Dept. of Comparative Literature, J.U, from 19-20 January, 2017.
- Presented a paper titled “Inside Prison Walls: Resistance, Subversions, Negotiations” at XV National Conference on Women’s Studies, titled “Women in a Changing World: Restructured Inequalities, Countercurrents, and Sites of Resistance” organised by Indian Association of Women’s Studies at University of Madras, Chennai, from 22-25 January, 2017.
- Presented a paper titled “She Came to Stay: Bangladeshi Women in India Negotiate Cross-Border Child Marriages” at a Dissemination Meeting of the research project titled “Love, Law and Labour: Child Marriage in West Bengal” organised by the School of Women’s Studies Jadavpur University, on 23 February 2017.

Books/Monographs etc. Published :

- Mehta, R. Forthcoming. Women, Mobility and Incarceration: Negotiating Social and Political Borders. UK: Routledge.

Articles Published in Journals:

- Mehta R. (2016) ‘Borders: A View from ‘Nowhere’’, Criminology and Criminal Justice, 16(3), 286-300.

Major Achievements:

- 2016: Received a travel grant for a seminar in Spain in June 2016 under the “UGC GDA-Travel, Seminar and Visiting Fellow Scheme (XII Plan)”
- 2017: Nominated for the International Visitor Leadership Programme (IVLP) by the US Department of State

4. Nikhilesh Bhattacharya:

Seminar/Workshop/Conference/Symposium Attended:

- Presented a paper, “Anglo-Indians: Lives Beyond Literature,” at an Anglo-Indian Studies Workshop, entitled “Nexus: Anglo-Indian Literature and Anglo- Indian life,” held at Jadavpur University, Kolkata, on 18-19 January 2017.

5. Aritra Chakraborty

Seminar/Workshop/Conference/Symposium Attended:

- Presentation given at the Annual Conference of Cambridge University Press, India, on new approaches to editing English Language Textbooks.

Articles Published in Journals:

- Book review: Shukla Sanyal, Revolutionary Pamphlets, Propaganda and Political Culture in Colonial Bengal. New Delh: Cambridge University Press, 2014 in Sanglap: Journal of Literary and Cultural Enquiry, Vol 2 (2)

6. Deeptanil Ray

Articles Published in Journals:

- Deeptanil Ray and Abhijit Gupta, “The Newspaper and the Periodical Press in Colonial

Annual Report 2017-18

India: Explorations in Early Media History,” in *Journalism and the Periodical Press in Nineteenth-Century Britain*. Edited by Joanne Shattock. Cambridge, UK: Cambridge University Press, 2017, 245-262.

- “Review of Isabel Hofmeyr, *Gandhi’s Printing Press: Experiments in Slow Reading*,” *SHARP News* [quarterly organ of The Society for the History of Authorship, Reading and Publishing], vol. 25, no. 2 (2016), 20-21.
- “Comics porarpnaachtisahajupaay,” *Deepan*, Special Issue on Bengali Comics, edited by N. Julfikar, vol. 20, no.1-2 (2016), 129-140.

Major Achievements:

- Guest Faculty, Department of English, Presidency University
- Received *Nidan* (Second Degree Black Belt) in Aikido, from the international aikido federation, Kokusai Aikido Kenshukai Kobayashi Hirokazu Ryu Ha (KAKKHRH), in December 2016.

7. Payoshini Mitra

Major Research Project:

- Research Project on Sport, Sexual Harassment and Discrimination on the basis of gender identity, sexual orientation and intersexuality supported by Ministry of Youth Affairs and Sport, Government of India as the Project Director. The Project was hosted by School of Media, Communication and Culture, Jadavpur University.

Invited Lectures:

- Invited as speaker at the 10th Gender Summit, Tokyo Japan. Invited to talk on Dutee Chand case at bastions law schools including National University of Juridical Sciences, Kolkata.

Major Achievements:

- Directed a documentary on Sport and Sexual abuse: In the Name of Pride (2016)
- Was interviewed as the domain expert before and during the Rio Olympics by BBC Radio 5, Australian Broadcasting Corporation, The Times, London, Business Line, WYNC.org, New York on Issues related to the suspended Hyperandrogenism Regulations of the IAAF and IOC.

8. Anwesha Sengupta

Major Achievements:

- Attended Persian language classes for two weeks in April 2016 at the International Centre for Persian Studies, University of Tehran, Tehran, Iran.

9. Nilanjan Das

Invited Lecture:

- “Externalism and the Value of Information”, Formal Epistemology Workshop, Seattle, May
- “Self-Locating Belief and Knowledge Defeat”, Latinx Philosophy Conference, Rutgers, April
- “Buddhists against Inferentialism about Self-Knowledge”, Central Division Meeting of American Philosophical Association, March

10. Shounak Set

Invited Lecture:

- Resource-person (11.03.17) for Special Lecture on “International Relations And Outer Space” at Loreto College, Kolkata

Seminar/Workshop/Conference/Symposium Attended:

- Presented Paper, “Outer Space And Development: A Case Study Of The Indian Space Program”, at the National Seminar organized by Loreto College in December, 2016.
- Presented Paper, ”Precedents, Probabilities And Prospects: Re-Imagining The India Australia Relations” at the 5th International Conference of Indian Association for Study of Australia in February 2017.
- Participated in 5 day Workshop on “History of Science and Technology” at Asiatic Society, Kolkata in February, 2017.
- Presented Paper, “Space Technology And Rural Development” at National Seminar organized by Dept. of Economics, SKBU in March 2017.

Articles Published in Journals:

- Book Review: U.R. Rao, Inside the ISRO: Narrating the Indian Space Odyssey, India Quarterly, Vol 72, Issue 2, May 2016 (SAGE)

Major Achievements:

- Resource Person for Soft Skill Development Course at SKB University.
- Selected as Jt.Coordinator for NET/SET Free Coaching at SKBU

11. Natasha Upadhyay

Major Achievements:

- Participant at the 61st session of the Commission for Status of Women at the UN in New York, March 13-24 through the Center for Women’s Global Leadership, Rutgers University.

12. Soumya Bhowmick

Major Achievements:

- Graduated Erasmus Mundus Joint Master Degree – Economics of Globalisation and European Integration with Distinction on 27th October, 2017.

Major Research Project:

- Cultivation Of The Globalized World: *An Economic Analysis Of The ‘Sense Of Globalization’ In People*, May 2017, Antwerp, Belgium ; Advisor: Professor Giuseppe Attanasi, Faculty of Economics and Social Sciences, Lille University of Science and Technology, Lille, France.
- Joined as a Research Assistant at Observer Research Foundation, Kolkata from 1st December 2017. Associated with two projects at the moment - Urban Water Challenges in KMC Area; A Comparative Study on China and India’s Energy Transition.

13. Ritajyoti Bandopadhyay

Articles Published in Journals:

- R. Bandyopadhyay and R. Samaddar (2017): ‘Caste and the Frontiers of PostColonial Capital Accumulation’, in I. Mitra, R. Samaddar and S. Sen (eds), *Accumulation in Post-Colonial Capitalism*, pp. 189-215, Springer, DOI 10.1007/978- 981-10-1037-8.

Annual Report 2017-18

- R. Bandyopadhyay (2017): 'Genealogies of Political Modernity', A Review of Decolonisation and the Politics of Transition in South Asia (ed), S. Bandyopadhyay, Orient BlackSwan, 2016, Book Review, XLI, 3.
- R. Bandyopadhyay (2017): 'Obstruction: Counter-Pedestrianism and Trajectories of an Infrastructure Public', Decision (Springer), 44 (2). DOI 10.1007/s40622-017- 0155-7

Collaborative Programmes:

- Associated with a collaborative project on the social history of 'big-data' in India, as a lead author involving the researchers at the Mahanirban Calcutta Research Group, the University of Western Sydney, and Tata Institute of Social Science (TISS) Mumbai.
- Associated with a collaborative project titled *Entangled Urbanization: Capabilities and Informal Labour, Dignity and Deprivation*, funded by the Rockefeller Foundation.

Major Achievements:

- One of the founder members of a major Indo-German academic consortia titled *M.S. Merian-R. Tagore International Centre of Advanced Studies in the Humanities and Social Sciences*, housed at the Institute of Economic Growth, New Delhi.
- Invited as an 'advisor' to a Ford Foundation funded Project at the TISS Mumbai exploring the social life of small urban spaces.
- Associated with a research network titled *The Social Life of Commercial Trust: Comparative historical perspectives from Asia, Africa and Europe, 1600-1950*,

14. Purbasha Auddy

Seminar/Workshop/Conference/Symposium Attended:

- Presentation on 'Bibliography, digital file management and workflow' in the group discussion on 'The Making of the Bichitra Project: Online Variorum of Rabindranath Tagore' at the international workshop on "Shakespeare Archiving, Digital Archiving and Textual Computing," organised by the Department of English, and School of Cultural Texts and Records, Jadavpur University, November 29, 2016
- Easy Access for Rare Books: A Proposition' at 'Re-booting Public Libraries for the 21st Century to Recreate the Future,' national seminar organised by the Department of Library and Information Science, University of Calcutta in collaboration with the University Grants Commission and Raja Rammohun Roy Library Foundation, March 3-4, 2016
- Presentation on বাংলা সাময়িকপত্রের সন্ধানে (১৮১৮-১৮৬৭) or 'In search of Bengali periodicals (1818-1867)' at the researchers' conference organised by the Department of Bengali, Jadavpur University, March 28-29, 2017
- Presentation on 'A project to look into the narrative of the publication of the first fifty years of Bengali periodicals, 1818-1867' at the international conference titled 'Turning the Page: New Directions in South Asian Book History' organised by the University of Chicago Center at Delhi, March 9-10, 2017

Presentations Made:

- Presentation on 'বাংলা সংবাদপত্র প্রকাশনার প্রথম পঞ্চাশ বছর ১৮১৮-১৮৬৭: কয়েকটি বিশেষ ঘটনা' at the one-day national seminar on 'ভারতীয় সংবাদ-পত্র: সেকাল ও একাল' organised by the Vidyasagar Centre of Indological Studies, Rabindra Bharati University, February 23, 2018

Publications:

- ‘Not only for Keeps: But also for Documentation and Access,’ *Fellows*, Newsletter of the Jadavpur University SYLFF Association, Issue 11

Grants Received:

- SYLFF Research Abroad grant of US \$ 5,000 for conducting research at the British Library, London and the School of Oriental and African Studies, University of London, May-August 2017
- Sambrook Fund bursary of GBP 500 for attending the London Rare Book School course ‘Introduction to Bibliography’ at the Institute of English Studies, University of London, July 3-7, 2017

15. Sudeshna Dutta

Seminar/Workshop/Conference/Symposium Attended:

- Presented a paper in International XIXth Oral history Conference held in Bangalore from 27th June-1st July.
- Attended a Gian course, “ Oral history and the Art of Listening” from 9 th to 16 th November,2016.
- Attended National Level Workshop on “ Comparative Literature: Texts, Contexts, Concepts” organized by Centre of Advanced Studies (Phase-3), Comparative Literature Department, Jadavpur University from 22 nd to 24 th February,2017.
- Was awarded the SYLFF Research Abroad (SRA) Programme, and pursued research on Adivasi and Mulvasi women’s oral narrative, was pursuing research in University of Hawaii, Manoa, at the Department of Indigenous Politics Programme, focussing on Hawaiian indigenous movements over land rights, from September to December, 2017.

Major Achievement:

- Initiated an Indigenous Language Learning center in Kolkata.

16. Reep Pandi Lepcha

Invited Lectures

- Was invited as a delegate for a panel on Questions of Identity and Progress specifically dealing with North-East of India, at the Apeejay Kolkata Literary Festival.
- Invited as resource person to a one- day national seminar on Ethnicity and Development of Lepcha Primitive Tribe of Sikkim organized by Department of Anthropology, Sikkim University and Social Justice,Empowerment and Welfare Department, Government of Sikkim.

Seminar/Workshop/Conference/Symposium Attended:

- ‘Landscapes to Mindscapes: Engaging with the Personal and Impersona in Lepcha Folk Beliefs’ was presented at 6 th International Folklore Conference organised by Institute of Lithuanian Literature and Folklore Department of Estonian and Comparative Folklore, University of Tartu at Vilnius, Lithuania.
- ‘Dabbling with Kaleidoscopic Narratives: A Prerequisite for Comprehending the ‘forgotten’ History of Róngs/Lepchas’ was presented at 4 th International Conference on North-East India, Reframing India’s North-East People, Power and Perspectives, organized by Sikkim University.

- Participated in a one-day workshop on ‘Introduction to the Study of Linguistics and Training on Language Documentation’, organized by the Centre of Advanced Study, Department of English, Jadavpur University.

17. Sujaan Mukherjee.

Seminar/Workshop/Conference/Symposium Attended:

- “Historical Pilgrimage: Brahma Travel and the Narrativization of Space”, at the national seminar, “Modes, Motives, Motifs, and Conditions in Intra-Asian Travel”, 20-21 March 2017, Department of English, University of Delhi.
- “‘Labourer’s only library’: Funeral Inscriptions in Calcutta Cemeteries” at the international conference, “Turning the Page: New Directions in South Asian Book History”, held on 9-10 March 2017, University of Chicago Centre, New Delhi.
- “Deathly Excess in Titus Andronicus” at the international conference, “Shakespeare’s Ashes”, organized by the Shakespeare Society of India, Ashoka University, and British Council on 21, 22 October 2016.
- “Remembering Death: Questioning the Literary Urban Imagination” at the workshop, “Urban Futures and Urban Utopia in South-Asian Megacities: Narrative, Play, Planning” organized by Institute of Development Studies Kolkata & Utrecht University, Netherlands, on 25 July 2016.
- “Second Cities, Secondary Utopias: Calcutta in the Early 20th Century”, (forthcoming) at ‘Urban Utopias: Memory, Rights, and Speculation,’ international workshop at Utrecht University, 21-22 February 2018.
- “Labourer’s only library”: Funeral Inscriptions in Calcutta Cemeteries”, at “Turning the Page: New Directions in South Asian Book History”, international conference at University of Chicago Centre at Delhi, 9-10 March 2017.
- “The Ageing Body in Wrestling and as Spectacle: The Cases of Sri Biswanath Dutta and Manohar Aich,” at “Ageing, Ageism, Cultures”, a national conference organized by the Centre of Advanced Study, Department of English, Jadavpur University, 21-22 September 2017.
- “Historical Pilgrimage: Brahma Travel and the Narrativization of Space”, at “Modes, Motives, Motifs and Conditions in Intra-Asian Travel”, an international conference organized by the Department of English, University of Delhi, 20-21 March 2017.

Articles/ Reviews Published in Journals/ Magazines:

- “One Great Graveyard of Memories”: Remembering Death in Kolkata’ in Presidency Historical Review 2, 1 (August, 2016): 13-30. ISSN: 24575058.
- ‘Travels in Time: Kolkata through Postcards,’ in Coldnoon Cities: Mapping the Metropolis I (August 2016). ISSN 22789642, E-ISSN 22789650.
- “Captain Haddock in Calcutta (or, the story that Herge did not write but history did)”, in *Scroll Magazine*, 28 January 2017;
- “The story of the elusive man who made these fascinating pastel postcards of Calcutta”, 2 March 2017; “What 19th-century Calcutta’s street cries revealed about its food and politics”, in *Scroll Magazine*, 13 May 2017.

Annual Report 2017-18

- ‘Cities from Above in Literature: Moscow, Kolkata’, *Sanglap: Journal of Literary and Cultural Inquiry* 3, no. 2, (2017): 286-320. ISSN: 2349-8064.
- ‘The story of the elusive man who made these fascinating pastel postcards of Calcutta,’ *Scroll*, 2 March 2017.
- ‘What 19th-century Calcutta’s street cries revealed about its food and politics,’ *Scroll*, 13 May 2017.
- ‘দৈনন্দিনতার প্রতিরোধ ও মিশেল দি সার্তো’ [Michel de Certeau and Everyday Resistance] in *Chorus* May-June 2017.
- ‘Against the Certified Art of Drinking: Two Nineteenth Century Tracts on Alcoholism in Bengal,’ published by British Library, Early Indian Printed Books.
- ‘How Britain’s love affair with ‘the world’s most beautiful tree’ blossomed in Calcutta,’ *Scroll*, 16 June 2017.
- ‘Who was the photographer who took these dehumanising images of the Madras famine?’ *Scroll*, 20 November 2017.

Talks Delivered:

- Talk on India Foundation for the Arts project, “Chance Directed” at “Searching Cultures: Stories from the Archives,” organized by India Foundation for the Arts and Tamaasha Theatre (Mumbai) on 27 May 2017.

Awards Won:

- Awarded Sylff Research Abroad grant by Sylff, Tokyo Foundation, for research at Birkbeck, University of London, and the British Library, London, from April to June 2018.

18. Abhijit Sadhukhan

Seminar/Workshop/Conference/Symposium Attended:

- Presented a paper on the Concept of Body in Buddhist Philosophy, in the ICPR Centre for Buddhist Studies, Jadavpur University, in October, 2016.
- Presented a paper on the Incarnation Theory of Chaitanya Deva in XIII Biennial Conference of Comparative Literature Association of India, in March 2017. This paper has been nominated for publication as a chapter in a Book. This is based on M.Phil Thesis.

19. Sreerupa Sengupta

Invited Lectures:

- Delivered a lecture on Gender Responsive Budgeting and Gender Mainstreaming in Community Development as part of the *International Certificate Program on Community Participation and Rural Development* organised by NIRD, Hyderabad – 4 January 2017.
- Delivered a lecture on Gender Mainstreaming at Sardar Vallabhbhai National Police Academy on 22 August 2016
- Delivered lectures to senior executives from banks and public sector enterprise; government officials from various state departments (Assam, Uttarakhand, Maharashtra, Odisha, Uttar Pradesh, Bihar, Chhattisgarh, Andhra Pradesh, Jharkhand) and officials from Asia-Pacific and SAARC countries. Topics covered - Decent Work Agenda and Gender Mainstreaming Strategies at Workplace, Integrating Gender in Rehabilitation and

Annual Report 2017-18

Resettlement action plans, Engendering Monitoring and Evaluation, Gender Responsive Budgeting, SDG and Gender.

Seminar/Workshop/Conference/Symposium Attended:

- Attended a consultative workshop organised by the National Women Commission to identify issues/themes for research/workshops for 2017-2018 on 29 March 2017.

Seminar/Workshop/Conference/Symposium Organised:

- Conceptualized and coordinated a sensitization workshop in Chandigarh on 12-13 December 2016 as part of the project on *Facilitating Replication of PM Awarded Initiatives in the States and UTs (2015-2017)*, supported by DARPG.
- Coordinator of a regional workshop for north eastern states in the Assam Administrative Staff College, Guwahati on 4-5 August 2016 as part of the project on *Facilitating Replication of PM Awarded Initiatives in the States and UTs (2015-2017)*, supported by DARPG.

Articles Published in Journals:

- Dr. Sreerupa Sengupta and Dr. Balbir Singh, “Breaking the cycle of malnutrition in India: *SurgujaFulwari*, Chhattisgarh and *Aman Persera*, Meghalaya”; ASCI Journal of Management (forthcoming volume)
- Dr. Sreerupa Sengupta and Dr. Balbir Singh, “Right to consent: *Lado* Campaign, Madhya Pradesh”; ASCI Journal of Management (forthcoming volume)

Major Achievements:

- Course Director of **Management Development Program for Women Executives**, 16-20 January 2017.
- Course Director of **General Management Program for Women Scientists** (supported by Department of Science and Technology) 23 January – 3 February 2017.
- Course Coordinator of **Gender Policies and Audit** supported by Asian Development Bank (June 2016).
- Coordinated 2 programs on leadership skills for senior officials from Central Bank of India (November 2016 and January 2017)
- Member, recruitment committee for the selection of Social Development Experts for the project on *Establishment and Operationalisation of SLTC and DLTCs for HUD Department, Odisha*; supported by Government of Odisha, September 2016
- Advisor of Ms. Kankana Roy, researcher in Maulana Abdul Kalam Azad Institute of Asian Studies, Kolkata for the Occasional Paper on *India and Bangladesh- Plans and Policies for the Participation of Women in Technical and Vocational Training: A Comparative Study*. The Occasional Paper was published in April 2017.

20. Mayuri Banerjee

Seminar/Workshop/Conference/Symposium Attended:

- Presented a paper on India-Pakistan relations titled “India-Pakistan Relations: A narrative of Post-colonial identities” at a two day national conference jointly organized by Department of Political Science of Bombay University and JAIR in December 2016.

Annual Report 2017-18

- Presented a paper on India-China relations titled "Territorial Anxiety in India-China Relations: Can BCIM come to rescue?" in a two day international conference organized by Kolkata Association of Asian Studies.

21. Sulagna Maitra

- **Maitra S. (2018) The Changing Nature of Conflict: The Need for a Conflict-Sensitive Approach.** In: Heintze HJ., Thielbörger P. (eds) International Humanitarian Action. Springer, Cham
- **Gibbons, P., Mc Dermott, R., Maitra, S. and Herman, J. (2017), Building on the Capacities of Crisis-affected Populations: from Victims to Actors.** Dev Policy Rev. Accepted Author Manuscript. doi:10.1111/dpr.12239

22. Sritama Chatterjee

Articles Published in Journals:

- "E-Learning and Higher Education in India and Italy: Research Study and Analysis". Co-authored with Supriya Chaudhuri and Andrea Reggiani. Published by Jadavpur University Press, 2017. ISBN No.- 9789383660360
- "Refugee in My Own Country": Exile, Hospitality and Ethics in the Writings of Kashmiri Pandits". Published in *Lapis Lazuli: An International Literary Journal*. Volume 7 no. 2, Autumn 2017. ISSN No.- 2249-4529. UGC Approved: Serial number, 41623. Blind Peer-reviewed.

UGC-HUMAN RESOURCE DEVELOPMENT CENTRE

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In the academic session 2017-18, the UGC-HRDC, Jadavpur University, has conducted altogether 15 programmes including four Orientation Programmes, three (3) subject-specific Refresher Courses and three (3) inter-disciplinary Refresher Courses. The details of these courses are given below, with time distribution of courses indicated in Figure 1.

	Programme	Conducted at	Time
A. Orientation Programme			
A1	65 OP	UGC-HRDC	July 17 – August 12, 2017
A2	66 OP	UGC HRDC	August 21 – September 18, 2017
A3	67 OP	UGC-HRDC	November 13 – December 11, 2017
A4	68 OP	UGC-HRDC	February 05 - March 06 th , 2018

B. Refresher Courses

B. 1 Subject Specific Refreshers Courses

B 1(i) Recent Advances in Chemistry Department of Chemistry January 2–24, 2018

B 1(ii) Recent Advances in Civil Engineering Department of Civil Engineering January 2–24, 2018

Social Sciences, Social Inequalities and Public Policy: Reflections on Contemporary India
Department of Sociology, January 3–25, 2018

B 2 Inter-disciplinary Refreshers Courses

B 2 (i) Disaster Management & Environment School of Oceanography October 23 – November 13, 2017

B 2 (ii) Understanding ICT for Professional Development in Education Department of IT December 1- 22, 2017

B 2 (iii) Studies in Peace and Conflict School of Strategic Studies December 1–22, 2017

Refreshers Course on Teacher’s Educators

C Refreshers Course on Teacher’s Educators Department of Education October 24 – November 14, 2017

D One-week Short Term Courses

D 1 Research Methodology in Social Sciences Department of Economics November 6– 11, 2017

D 2 Thinking Through Gender School of Women Studies February 1–7, 2018

E Winter School under Refresher Course

Literature and the other Arts Department of Comparative Literature November 6– 25, 2017

Other Programmes

F One-day Principals’ Meet UGC-HRDC January 20, 2018

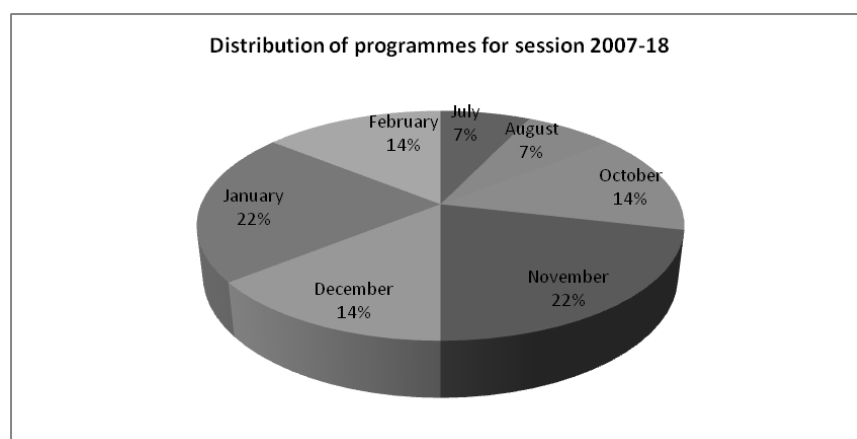


Figure 1

Since Prof. Rajat Acharyya, Professor of Economics, Jadavpur University, has taken over the charge of Director, UGC-HRDC, from the earlier Director, Prof. Asish K. Verma, Pro-Vice Chancellor Jadavpur University, on and from June 1, 2017, several policy changes have

been introduced in consultation with the Local Programme Planning and Management Committee in conducting the academic programmes. The salient features of such policy changes were as follows:

I. Salient Features of Changes in Academic Programmes

- A. Selection criteria:** To make the selection procedure transparent and non-discriminatory, the UGC-HRDC, JU, has selected applicants for each programme *solely* on the basis of “Score” obtained by each applicant, with the score being calculated as the number of days between the date of next promotion due and the date of commencement of the course concerned. The selection list along with the scores of each selected candidates has been published at our website to avoid any kind of ambiguity and controversy. Each selected candidate was intimated about his/her selection through email as well as text messages.
- B. Social Inclusion:** Guided by the principle of social inclusion, the UGC-HRDC, JU has strictly followed the reservation criteria for applicants under SC, ST, OBC-A, OBC-B and Differently-abled categories as recommended by the UGC and other relevant authorities for selection of participants in the programmes/courses organised by it during 2017-18. Details are given in Annexure I.
- C. Changes in the Design of Programmes/Courses:**
- a) Orientation Programmes have been divided into two groups – Arts, Social Sciences and Commerce being one group, and Science and Engineering being the other group — to minimize heterogeneity of the participants which has enabled the resource persons to orient their lectures accordingly. The lecture topics in each Orientation Programmes, however, covered all the sub-disciplines and inter disciplines as suggested by the UGC. While selecting topics, three criteria have been kept in mind: topics of current affairs of national as well as international importance (such as demonetization, GST, Kanyashree Prakalpa, BREXIT, environmental preservation); topics of general interest for moral, psychological and professional development (such as lectures on values and ethics in teaching, human rights, emotional intelligence, stress management, research methodology, CAS/service matters, IQAC); and topics of cross-discipline and multi-discipline in nature (such as lectures on strategic studies, globalization and development, environmental history, origin of language, textual studies, history of science, big data analysis, mathematical logic, communication and wireless network). On top of all these, there has been two sessions on performing arts with live demonstration.
 - b) Several new concepts have been introduced in the curriculum of Programmes following the guideline of UGC.
1. **Survey Based Group Project & Discussion:** In each Orientation Programme, the participants were divided into seven/eight groups and each group were given a particular topic to research and debate on. This was a part of the evaluation of the participants as well. Topics of this discussion had been assigned for each group on the very first day of the programmes. Each group was required to present a project report and present before all other participants and two external evaluators in the second week of the Orientation Programme. This Survey Based Group Project was well appreciated by the participants of all the Orientation Programmes conducted during 2017-18.
 2. **Study tour:** In each Orientation Programme, the UGC-HRDC, JU conducted a study tour for the participants – either at Satyajit Ray Film and Television Institute (SRFTI), Kolkata,

or at Sea Explorer Institute Kolkata. At SRFTI the participants got first-hand experience in direction, sound, cinematography, editing and animation through a guided tour of different units of SRFTI. At Sea Explorer Institute, Kolkata, on the other hand, the participants were given some hands-on experience about disaster management techniques. After each study tour, the participants had to submit a report on their learning experience, which was also included in the overall evaluation process.

3. **Microteaching:** Participants prepared their lesson plan and presented before the peers. Expert and distinguished professors from Department of Education not only from Jadavpur University but from other universities conducted the sessions. As per standard guideline, participants were peer reviewed and evaluated on the basis of several standard criteria recommended by standard authority. This session brought a lot of enthusiasm among the participant.

II. Participants' Feedback:

In general, the participants' responses were very positive and satisfactory. Not only each participant submitted his/her written feedback in the prescribed format, on the concluding day of each Orientation Programme the participants also expressed their opinions and made suggestions of further improvements in an Interactive Session with the Director, Assistant Director and other Staff of the UGC-HRDC, JU. Summary of feedback on quality of teaching, academic programme, infrastructure facility is uploaded in the website of the UGC-HRD, JU, and is available at:

<http://www.hrdcju.in/wp-content/uploads/2018/04/Feedback-2017-18.pdf>

III. Infrastructure Development

During the financial year 2017-18, the UGC-HRDC, JU, has undertaken several infrastructure development projects and has added to its facilities for the participants and other stakeholders.

- a) **A Separate Website** (www.hrdcju.in): On January 20, 2018, the UGC-HRDC, JU, has achieved a milestone by launching its own website, which has been the first of its kind among all the HRDCs in West Bengal. Till then, the information regarding programmes, applications, etc. were nested in the Jadavpur University website. Apart from providing all necessary information regarding different programmes organized by it along with time lines and application forms, the website contains a feedback link which can be used by the participants and other stakeholders for providing their valued suggestions.
- b) **Online Application Process:** In order to facilitate application by participants from remote areas, and to improve administrative efficiency in processing a large number of applications that the UGC-HRDC, JU, receives for each programme, an online application portal has been initiated, which would be ready for use before the programmes commence in the next academic session 2018-19.
- c) **Big-screen remote control projector screen:** A state-of-the-art LCD projector along with big-screen projection facility has been installed in the Lecture Hall at the UGC-HRDC, JU.
- d) **Renovation of the Meeting Room:** Renovation of the meeting room adjacent to the Lecture Hall at UGC-HRDC, JU, has been initiated with acoustic setting.

At the end, the active help from coordinators of all the programmes are sincerely acknowledged. Sincere thanks also go to Professor Suranjan Das, Vice Chancellor Jadavpur

Annual Report 2017-18

University, Dr. Pradip Kumar Ghosh, Pro-Vice Chancellor Jadavpur University, Sri Gour Krishna Pattanayak, Finance Officer Jadavpur University, and the university administration for their kind support to make the programmes successful. We also remember the contributions made by Mr. Abhisek De, Junior Assistant (Contractual), whose sudden demise on March 23, 2018, was a setback to all of us at the UGC-HRDC, JU.

Annexure I

Composition of Participants in Orientation Programmes on the basis of application and selection

No. of Participants in the programmes/courses during the session 2017-18

Programmes	M	F	GEN	SC	ST	OBC-A	OBC-B	T
RC in Chemistry	31	10	24	11	1	3	2	41
RC in Civil Engg.	27	6	24	7		1	1	33
RC in Sociology	17	20	26	7	1		3	37
RC in Oceanography	23	10	20	5	2	3	3	33
RC in IT	30	14	32	3	1	3	5	44
RC in Strategic Studies	21	19	29	6	2	2	1	40
Teacher Educator	14	16	22	6			2	30
STC Economics	13	22	21	11		3		35
STC Women's Studies	15	22	31	3		1	2	37
Winter School in Comparative Literature	15	23	23	9	1	1	4	38
65 Op	22	19	21	11	2	4	2	40
66 Op	29	10	20	12	2	4	2	40
67 Op	14	25	24	8	1	3	3	39
68 Op	24	8	18	7	2	3	2	32
Total	295	224	335	106	15	31	32	519
Percentage	56.8	43.2	65	20	3	6	6	100

Note: The lesser number of participants in reserved category in few courses were due to non availability of applications under such categories.

M= Male, F= Female, Gen= General, SC= Schedule Cast, ST= Schedule Tribe, OBC A= Other Backward Class A, OBC B= Other Backward Class B, T=Total