



Department of Architecture, Jadavpur University

University Grants Commission-Human Resource Development Centre (UGC-HRDC), JU and our Department has jointly organized a Three-week Refresher Course on **"Built Environment & Sustainable Technologies (BEST)"** for teachers of Architecture & Civil Engineering from 2nd to 21st January, 2017 at the Dept. of Architecture, JU. Renowned experts from academia & industry acted as Resource persons for this Course.

UGC-HRDC Refresher Course

2nd to 21st January, 2017

Prof. Suchandra Bardhan and Dr. Debashish Das jointly coordinated the Course, while the teachers of the Department acted in various capacities - Resource Persons and Examiners. All staff and Research Fellows of our Dept. extended suitable assistance in organizing this Course.

Content:

UGC Refresher Course Proceedings

Editorial Board Members:

Prof. Jayita Guha Niyogi
Prof. Shivashish Bose
Prof. Suchandra Bardhan



(L-R) Hon'ble VC, Dean-FET and
Mr. Vishwanath S



Lighting of the ceremonial lamp



The keynote speech highlighted traditional wisdom and practices of resource management.



The Department was privileged by the august presence of (L-R) our Hon'ble Vice Chancellor Sir Prof. Suranjan Das, Dean-FET Prof. Somnath Ghosh and distinguished Chief Guest-cum-Keynote Speaker Mr. Vishwanath S. in the inaugural session.

UGC-HRDC Refresher Course

WEEK- 1

2nd to 21st January, 2017

The course involved 18 days of intense academic discourses involving significant dimensions of sustainability and built environment - covering over 60 sessions with about 60 speakers and 33 teacher-participants from Architecture, Civil Engineering and allied disciplines.



1. Ar. Chitra Vishwanath, Biome
2. Prof. Goutam Gupta, JU
3. Prof. Joyashree Roy, JU
4. Prof. L.N. Satpati, CU
5. Dr. Amites Mukhopadhyay, JU
6. Prof. Tapas Kr. Bhattacharya, JU
7. Dr. Dhrubojyoti Ghosh, Ecologist-Engr.
8. Prof. Jayita Guha Niyogi, JU
9. Mr. Tapas Gupta
10. Prof. Arup Guha Niyogi, JU
11. Dr. S.K. Agarwal, BMTPC

Mr. Vishwanath S. & Chitra Vishwanath of Bangalore based Biome were the chief speakers on the first day, followed by Ar. Vivek Rathore, who cited how sustainability goals may be achieved with examples from their own projects. Prof. Joyashree Roy, Prof. Goutam Gupta, Prof. Amites Mukhopadhyay & Prof. L. N. Satpati discussed the macro-level socio-economic dimensions of sustainability with respect to global warming, climate science and the dynamics of climate change. Dr. Ashish K. Ghosh of ENDEV deliberated on the urban environment and bio-diversity. Prof. Jayita Guha Niyogi talked about the tenets of sustainable planning while Prof. T.K. Bhattacharyya linked sustainability principles with that of Mother Nature. Dr. Dhrubojyoti Ghosh left the audience mesmerized with his narratives on the science of urban waste water management and the sustainable model of resource recovery at the Ramsar site of East Kolkata Wetlands (EKW)- the only one of its kind in the world. Prof. Arup Guha Niyogi and Mr. Tapas Gupta deliberated on earthquake resistant buildings and sustainable construction practices respectively while Dr. S.K. Agarwal expressed the concerns of affordable mass housing in the context of Government policies and ongoing MoHUPA schemes. He also lucidly explained the potential cost effective, energy efficient and eco-friendly building materials. Prof. Samaresh Mukherjee, Dr. Sutapa Das, Prof. Shubhashish Neogy, Ar. Kalyan Chakraborty, Ar. I. Roy Choudhuri and Mr. Debashish Dutta of INSDAG were the other expert-speakers of this week.

WEEK- 2



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1. Prof. Biswanath Roy, JU
2. Prof. Sugata Hazra, JU
3. Prof. Kaushik Bandopadhyay, JU
4. Dr. Ranajit Chakraborty, JU
5. Dr. Tapas Gupta, WBPCB
6. Dr. Anupam DebSarkar, JU
7. Prof. Biswajit Ghosh, JU



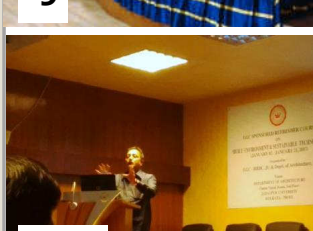
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8. Mr. Sudhin Nandi, FOSET
9. Dr. Kamalika Ghosh, JU
10. Dr. S.P. GonChoudhury, Energy expert
11. Mr. Abhijit Pandey, Fire Dept., GoWB



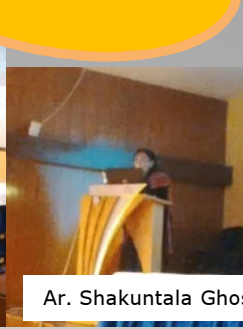
(Top Right) Participants at the classroom session and (Above) at the live demonstration by officials of W.B. Fire & Emergency Services showing various ways of fighting fires of different origins.

This week's focus at the building scale marked discourses on building services, renewable energy resources and Green Building aspects . Prof. Biswanath Roy & Dr. Kamalika Ghosh on Building illumination, Dr. Ranajit Chakraborty, JU & Mr. Shubhasish Das, ISHRAE on HVAC, Prof. Kaushik Bandopadhyay on waste water management, Dr. Anupam DebSarkar on air quality management, Prof. Amit Dutta on solid waste management and Mr. Abhijit Pandey, Divisional Fire Officer(Fire Prevention Wing) discussed the fire & emergency services in buildings. Dr.S.P.GonChoudhury, veteran Energy expert, talked about sustainable energy solution with roof-top solar PV. Prof. Biswajit Ghosh, JU presented a detailed evolution of energy technologies through ages. Prof. Sugata Hazra described why & how sustainability is related to disaster management. Dr. Tapas Gupta of WBPCB touched upon the statutory provisions of environmental laws of the State while Prof. Amitava Roy of IIST briefed on the sustainability chapter proposed by National Building Code. Prof. Dipankar Chakravorty talked on codal provisions for seismic resistance while Mr. Sudhin Nandi of FOSET shared their experience of cost & resource efficient buildings. Prof. Souvanic Roy presented on SMART city initiatives. Ms. Mili Majumder, MD, GBCI explained the energy efficiency & other parameters of Green Building ratings in two engaging sessions. Prof. Suchandra Bardhan discussed the carbon foot-print studies related to buildings. Innovative technologies in construction were presented by Mr. Sandeep Suman while that in grey water management were showed by Mr. Pradeep kumar.

UGC-HRDC Refresher Course

2nd to 21st January, 2017

WEEK- 3

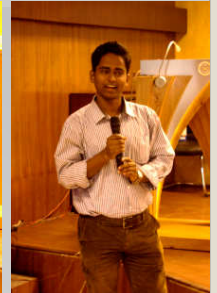


Ar. Manish Chakraborty

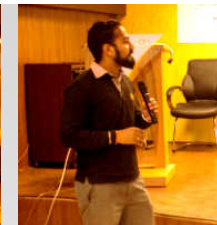
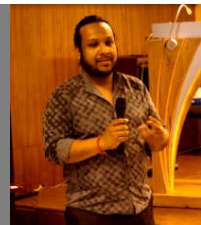
Ar. Shakuntala Ghosh

Prof. A.S. Verma, Pro-VC, JU

The third week's discussions started with varying and multifarious sustainability dimensions like Sustainable Landscapes by Ms. Anuradha Rathore, RainWater Harvesting by Prof. Arunabha Majumder and Urban Farming & Vertical Gardens by Mr. Pradeep Borpandey of Pune. Alternative Approaches for Sustainable Constructions were skillfully explained by Ar. Siddhartha Mitra of the Laurie Baker Centre for Habitat Studies followed by a vivacious presentation on Architectural Conservation for a Sustainable Built Environment by Ar. Manish Chakraborty. Green Building case studies were presented by Ar. Shakuntala Ghosh while Mr. Shubhrajit Pandit of Glass Academy talked on wise use of Glass in buildings. Dr. Himadri Guha and Dr. Biswajit Thakur elaborated on the use of various softwares in built environment simulation and performance assessment. Prof. A.S. Verma, our Pro VC & Director, HRDC-JU, enlightened the audience on significant aspects of human health. This was followed by participants' presentation & written examination and finally ended with the feedback and Valedictory Session.



Dr. K. K. Ganguly, eminent structural engineer & the Guest of Honour for the Valedictory Session on the final day of the Course listening to feedback of participants (L-R) P. Ghosh, S. Sarkar, S. RoyChowdhury- JU, A. Mondal, Aliah Univ., WB.



Feedback session in progress: Participants sharing their valuable feedback (L-R) S. Banerjee, RRSA-WB, M. Prakash, Amity-Lucknow, S. Deb, ODGI, P. Sen, ODGI, A. Saxena, Amity-Lucknow, A. Jain, C.Arch.-Moradabad, S. Pal, MSIT-WB.



Participants with Coordinator - Organizers of the Refresher Course



Dr. Ganguly presenting the Certificates to the participants.....

S. Sahana, JU

R. Raja Gazi, NEHU

D.K. Kar, PMCA

P. Deb Sarkar, NSEC