

ANNUAL QUALITY ASSURANCE REPORT, 2005
INTERNAL QUALITY ASSESSMENT CELL, JADAVPUR UNIVERSITY

Name of the Institution: JADAVPUR UNIVERSITY

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Year of Report: 2005

Where data is obtained by the financial year, it relates to 2004-5 unless otherwise mentioned. Other data (e.g., academic planning and activities, publications, conference participation) generally relates to the calendar year 2005.

Part A: Plan of action:

Specific targets:

- Celebration of Golden Jubilee of the University in befitting and productive manner
- Commencement of web-based distance-mode programmes under Directorate of Distance Education using Learner Management System
- More provision of online learning and research material
- Substantial enhancement of earning through consultancy
- More intensive collection of data and popularization of IQA exercise

Part B:

1. Highlights: activities specially upholding goals and objectives of institution:

- Commencement of TEQIP Programme. (All details in TEQIP Report.)
- Web-based distance-mode teaching programmes inaugurated
- Seed money for support to student projects and activities under UPE.
- Learning Resource Centre (with 60 nodes) inaugurated in Digital Library
- Jadavpur SYLFF Programme wins Fellows' Mobility Programme Award.

2. New academic programmes:

(A) Interdisciplinary programmes:

- M.Sc. course in Biotechnology
- M. Pharma. in Clinical Pharmacy and Pharmacy Practice
- M.Tech. (part-time) in Intelligent Automation and Robotics: Dept. of ETE
- B. Ed. in Special Education
- PG Diploma in Multimedia Development and Web Technology (Distance mode): SET

(B) Other programmes:

- Dept. of Lib. & Info. Sc.: New PG Diploma in Digital Library Management

- 4 new ED courses in Sociology
- UG programmes upgraded in Faculty of Engg. & Tech.
- Bengali UG and PG syllabi revised.
- Comparative Literature UG and PG syllabi revised.

3. Innovations in curricular design and transaction:

- Web-based teaching programmes inaugurated.
- Project for preparation of Electronic Teaching Materials commenced under UPE.
- See also para 5 below

4. Inter-disciplinary programmes started:

See above under para 2.

5. Examination reforms implemented:

1. Major changes in B.Tech. grading system:
 - First degree with SGPA (Semester Grade Point Average system) instead of absolute marks system, with new grading system starting from 'S' (70% for Humanities, 90% for all other subjects)
 - Percentage of marks calculated for final year students on weighted average of all semester (0.1 of 1st-2nd sem., 0.2 of 3rd-4th sem., 0.35 of 5th-8th sem.)
2. Change in M.A. assessment system to SGPA (Semester Grade Point Average)

6. Candidates qualified NET/SLET/GATE etc.:

7. No. of seminars/workshops conducted: 56

8. Research projects:

- a) Newly implemented: 23
- b) Completed: 25

9. Patents generated: 3

10. New collaborative research programmes:

See para. 39 below.

11. Research grants received from various agencies: Rs.9,40,84,000

12. Details of research scholars:

Newly joined in 2004-5: CSIR 32 + UGC 25 + UDFS 10 + ICPR 2 + ICMR 3 + DRF 2 + AICT 2 + QIP 26 + EFIP 3 = Total 106

Research Associates: 2

13. Citation index of faculty members and impact factor: Not obtainable

14. Honours/Awards to faculty [prizes; prestigious fellowships and visitorships; prestigious offices and nominations (not routine membership) of learned bodies and important state, corporate and social bodies]: 31

NB: Prof. Nibir Mandal (Geology) awarded S.S. Bhatnagar Award

15. Internal resources generated: Rs.4,88,14,000

(Tuition & other fees: Rs.2,99,10,000 + Other receipts: Rs.1,89,04,000)

15(a) Consultancy

Jobs worth Rs.1,21,00,000 earning Rs.41,00,000 for the University.

16. SAP, COSIST, ASIST, ASIHSS, DST.FIST etc.

DRS 4 + DSA 7 + CAS 8 = Total 19

(New CAS: Comp. Lit., Economics, Sanskrit; new DSA: Metallurgy)

ASIHSS: 3; COSIST: 1; ASSIST 4; FIST 7

(New ASIHSS: Sanskrit; new ASSIST: Electrical Engg., Metallurgy)

17. Community services:

Dept of Adult Continuing Education

- Approx. 300 women in Kolkata slums & three blocks of South 24-Parganas given vocational training for economic empowerment.
- Vocational training at basic and advanced levels to street children of Kolkata (automobile repairing for boys, sewing & tailoring for girls, both at basic and advanced level. Total no. of beneficiaries: approx. 125.).

Training Course for WBCS candidates

Dept. of Chemical Engg.

Pilot plant set up for commercial extraction of colour and essence from flowers.

NSS: See para 34 below.

Counselling Cell: See para 35 below.

18. Personnel and recruitment:

- Teaching staff: 620 out of 819 posts filled
- Officers: 29 out of 36 posts filled
- Other non-teaching staff: 1331 out of 1550 posts filled

19. Teaching/non-teaching staff ratio: Approx. 1 : 2.2

20. Improvements in library services:

- Setting up of Digital Library and Documentation Centre and Learning Resource Centre (with 60 nodes).
- JU Library Portal made operational. Access to e-journals on University network using J-Gate.
- 9 Library servers installed & the Library Management System Dspace fully customized.
- Separate reading room for print journals opened.
- Abstract database SCOPUS made available.

21. No. of a) books purchased with cost:

7,428 (Rs.55,81,763)

b) journals subscribed to with cost.

2,632 (Rs.2,70,44,409 incl. 50,00,000 from CDLD)

22. Courses in which student assessment of teachers is introduced and action taken on student feedback:

- Student-Teacher Committees in all departments

- Students allowed access to all internal assessment scripts.
- System of review in place.
- Student feedback introduced in Comparative Literature Dept.

23. Unit cost of education (based on Revised Budget Estimates, 2004-5)

Rs.1,48,000 (including salary component)

Rs.42,000 (excluding salary component)

24. Computerization of administration, admissions, exam results, issue of certificates:

- Dedicated website with all exam results from 1956 to 2004: first in India.
- Computerization of cheque processing system
- Research section: fully computerized system of data input introduced and all old records computerized.
- New programme for issue of transcripts

25. Increase in infrastructural facilities:

- Commencement of modernization of laboratories under UPE Programme (total: Rs.240 lakhs)
- Augmentation of water supply: new supply from Garden Reach Waterworks provided throughout Main Campus including all hostels in Jadavpur area.
- Work begun on Mobile Computing Building, Salt Lake Campus, under UPE scheme.

26. Technology upgradation:

- Establishment of Video Conferencing Studio and Audio Studio in School of Education Technology (SET)
- Installation of VSAT (Satellite Interactive Terminal) for EDUSAT Programme in SET

See also above under 'Computerization' (item 24).

27. Computer and internet access and training to teachers & students:

- Learning Resource Centre (with 60 nodes) inaugurated in Digital Library.
- Computers in all depts. for use of staff and, in most cases, of students.
- Separate computer room for Arts Faculty.
- Basic computer training imparted by School of Education Technology.
- Specialized computer training by various units such as CAD-CAM Laboratory, C-MATER as well as DOEACC on campus

28. Financial aid to students:

- 547 fully free + 37 half-free studentships totalling Rs.15,29,850/- (figures for 2005-6)
- Rs.9,34,320 disbursed to 1136 students under 'Earn While You Learn' programme between October 2004 and August 2005

29. Support from Alumni Association:

- Guest rooms upgraded to 4 AC and 2 non-AC rooms (5 double, one 2-seated)
- Two seminar rooms inaugurated (one AC, one non-AC)
- Rs.1,58,000 disbursed as scholarships to 95 students

- Training courses in (a) Communicative English, (b) Personal Interview and Group Discussion
- Health Camp

30. Support from Parent-Teacher Association: Not applicable

31. Health services:

Acquisition of new Auto-refractometer, enabling computerized refractometry.

32. Performance in sports activities:

- Championship in All-India Women's Inter-University Tennis Tournament. Rohini Das, of this team, was subsequently selected to study in the USA on a Tennis Sports Scholarship.
- 2nd in Men's East Zone Inter-University Table Tennis Tournament
- 5th in Men's All India Inter-University Chess Tournament

33. Incentives to outstanding sportpersons:

- Seats in sports quotas at UG level in all subjects
- Best Sportsperson Awards (Women & Men)

34. Student achievements and awards:

- Performance of a selection of short plays by Samuel Beckett by Dept. of English under Prof. Ananda Lal
- Architecture students came 2nd in Heritage poster competition of Dept. of Culture, Govt. of India
- NSS undertook 3 health checkup programmes in their adopted Panikhali village, South 24-Parganas.
- NSS organized a blood donation camp on campus.
- NSS supported a thalassemia patient by organizing blood donation on a card system
- NSS organized and participated in several programmes relating to AIDS prevention.
- NSS organized a diet survey of school children in Kolkata.
- NSS organized a clothes donation programme for flood-affected people.

35. Activities of guidance and counselling cell:

Two in-house and two external counsellors. 144 beneficiaries this year. Also:

- 3-month training course in Family Therapy
- Workshops on stress management at 7 West Bengal colleges

36. Placement services: 745 in 67 companies for appointments in 2006

37. Development programmes for non-teaching staff:

31 technical staff and 11 other staff trained at Administrative Staff College

38. Best practices:

- Dedicated website with all exam results from 1956 to 2004; first in country.
- Regular review of curricula
- Student-Teacher Committee in each Department

- Sustained extension of electronic teaching materials and methods, including online and distance modes
- Continuing efforts to support differently-enabled students, especially the visually impaired.
- Cells to look after Gender Harassment and Prevention of Ragging
- Exam results published within 45 days, and all degrees conferred at convocation on fixed date every year.
- Consistent overdraft-free finances. Interest earned through short-term FDs.
- Research and travel support to faculty from University's own income
- Library orientation with 'Know Your Library' information brochure provided to all new students on entry

39. Linkages with national/international academic/research bodies:

20 new linkages through MOUs. Others at various levels of formality too numerous and varied to quantify.

40. Other relevant information:

Faculty Development Programme under Academic Staff College

Orientation Courses: 4

Refresher Courses: 10

Research & Travel support to Faculty:

From University's own income: Rs.7,50,000 to 15 awardees

From UPE funds: Rs.26,38,000 to 53 awardees

PART C: PLANS OF THE INSTITUTION FOR THE NEXT YEAR

Specific Targets:

- Maximization of reach and scope of TEQIP programme
- Consolidation of distance-mode learning and use of electronic resources
- Review grading method under semester system
- Expand facilities to students with special needs
- Step up computerization of administration and training to administrative staff

**APPENDIX TO
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A: EXAMINATION RESULTS

Undergraduate

	appeared	passed	I class
Bachelor of Arts			1608
Bengali	50	46	06
Comparative Literature	51	38	05
Economics	44	42	20
English	47	44	13
History	50	47	07
Philosophy	37	32	08
Political Science	49	45	05
Sanskrit	46	44	16
Bachelor of Engg.	appeared	passed	I class
Architecture	17	17	17
Chemical Engg.	60	60	55
Civil Engg.	115	115	95
Computer Science & Engg.	57	56	54
Construction Engg.	24	24	24
Electrical Engg.	127	126	120
Electronics & Telecom. Engg.	64	63	63
Instrumentation	38	35	34
Mechanical Engg.	128	128	113
Metallurgical Engg.	21	21	17
Pharmacy	63	63	60
Power	39	39	37
Printing	19	19	19
Production Engg.	35	35	32
F.T.B.E	19	19	19
Information Technology	61	61	58
Marine Engineering	110	91	96
Bachelor of Science			
Chemistry	48	42	33
Geology	34	28	26
Home Science	98	95	69
Mathematics	66	53	40
Physics	51	46	41

Postgraduate

	appeared	passed	I class
Master of Arts			
Bengali	57	56	44
Comparative Literature	45	42	13
Economics	52	51	34
English	67	66	40
Film Studies	23	21	17
History	49	48	40
International Relations	58	52	23
Philosophy	84	73	43
Sanskrit	52	47	34
Master of Library Science & Information Science	13	12	05
Master of Physical Education	16	15	03
Master of Engg./Technology			
Architecture	07	07	07
Bio-Medical Engg.	07	07	
Chemical Engg.	14	14	14
Civil Engg.	24	21	21
Computer Science & Engg.	25	23	
Electrical Engg.	20	18	18
Electronics & Telecom. Engg.	19	19	19
Mechanical Engg.	15	15	15
Metallurgical Engg.	02	02	02
Pharmacy	24	24	24
Production Engg.	13	10	10
Control System Engg.	11	10	10
Multimedia Development	07	7	07
Water Resources & Hydraulic Engg.	14	14	14
Computer Technology	24	22	23
Energy Science & Engg.	09	09	10
Food Technology & Biochemical Engg.	05	04	04
Instrumentation & Electronics Engg.	07	06	06
Master of Computer Application	39	38	38
Software Engg.	17	17	17
M.Tech. in Material Engg.	10	10	10
M.Tech. in Bio-Technology	18	15	13
Master of Science			
Applied Geology	26	26	26
Chemistry	53	43	29
Electronics Science	11	11	11
Mathematics	95	65	38
Physics	67	56	40

B: PH.D. STATISTICS

New Ph.D. registrations

	Arts	Engg.	Science
2004	104	285	455
2005	99	162	206

. Ph.D.s awarded:

	Arts	Engg.	Science
2004	40	565	149
2005	63	66	204

C: ACTIVE PARTICIPATION BY TEACHERS IN CONFERENCES, SEMINARS, SPECIAL LECTURES ETC.

(Not given for Faculty of Science: all such participation reflected in Conference Proceedings and hence included in Publications Table)

	2004	2005
Bengali	7	25
Comp. Lit	20	26
Economics	6	6
English	55	48
Film Studies	18	19
History	25	39
IR	64	98
Library & Information Science	0	2
Philosophy	61	29
Physical Education	0	6
Sanskrit	10	12
Sociology	1	3
TOTAL ARTS	267	313
Adult Continuing Education	6	15
Architecture	4	5
Chemical Engg	NA	
Civil Engg	NA	
Computer Sc & Tech	6	22
Construction Engg	5	3
Electrical Engg	NA	7
Electronics & Telecom	18	50
Food Tech	13	22
Information Tech	1	1
Instrumentation & Electronics Engg	4	6
Mechanical Engg	21	42
Metallurgy	13	9
Pharmaceutical Tech	3	17
Power Engg	1	2
Printing Engg	0	0
Production Engg	0	1
TOTAL ENGG. & TECHNOLOGY	95	202
TOTAL FOR ARTS + ENGG.	362	515

(D) PUBLICATIONS BY STAFF MEMBERS**Books**

	Arts	Engineering	Science	Total
2004	24	15	17	56
2005	63	20	14	97

Articles

	2004	2005
Bengali	8	10
Comp. Lit	25	4
Economics	20	30
English	29	23
Film Studies	18	14
History	12	32
International Relations	26	24
Library & Information Science	6	4
Philosophy	19	17
Physical Education	0	3
Sanskrit	4	2
Sociology	0	0
TOTAL ARTS	167	163
Chemistry	83	84
Geology	NA	NA
Instrumentation Science & Technology	6	13
Life Science & Biotechnology	3	4
Mathematics	49	37
Physics	103	52
TOTAL SCIENCE	244	190
Adult Continuing Education	1	3
Architecture	NA	3
Chemical Engg	16	15
Civil Engg	6	9
Computer Sc & Tech	36	16
Construction Engg	5	3
Electrical Engg	8	22
Electronics & Telecom	13	38
Food Tech	6	11
Information Tech	8	6
Instrumentation & Electronics Engg	3	7
Mechanical Engg	21	23
Metallurgy	15	12
Pharmaceutical Tech	4	36
Power Engg	15	17
Printing Engg	2	0
Production Engg	NA	NA
TOTAL ENGG. & TECHNOLOGY	161	221
TOTAL ALL FACULTIES	572	574

