



# **JADAVPUR UNIVERSITY**

[website: [jaduniv.edu.in](http://jaduniv.edu.in)]

**SELF-STUDY REPORT**  
for submission to  
**the National Assessment & Accreditation Council**

## **VOLUME II PART 3**

DEPARTMENTS/SCHOOLS/CENTRES/SPECIAL PROGRAMMES

**FACULTY OF INTERDISCIPLINARY STUDIES, LAW &  
MANAGEMENT**

**SPECIAL PROGRAMMES**

**CENTRES OF STUDY**

**JANUARY 2014**



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## **CENTRES OF STUDY**

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## NOTE

This is the third part of the second volume of Jadavpur University's NAAC Self-Study Report.

It contains the profiles of (a) the schools in the Faculty of Interdisciplinary Studies, Law and Management (FISLM); (b) special programmes in the university and (c) centres of study.

Since the structure and functioning of the schools and centres differ considerably from departments, a modified version of the departmental profile (as given in the NAAC Guidelines) has been used here. While some schools have faculty positions, many do not. Thus the faculty profile will not be found for all the units detailed here. In similar fashion, publication details are given only where relevant. The special programmes' data have been given using a separate format.

Some additional information, such as detailed lists of publications or seminars and conferences, has been separately incorporated in a volume of annexures. These annexures will be made available, as per the NAAC guidelines, to the Peer Team on-site when they visit the university.

It is hoped that this volume will help to provide a full picture of the diversity and dynamism of Jadavpur University.



**FACULTY OF  
INTERDISCIPLINARY STUDIES,  
LAW AND MANAGEMENT**





**School of Advanced Studies on Industrial Pollution Control Engineering**

1. Name of School: ADVANCED STUDIES IN INDUSTRIAL POLLUTION CONTROL ENGINEERING
2. Year of establishment: 2000
3. Faculty to which attached: FISLM
4. Faculty profile: Prof. Avijit Bhowal, PhD, Director  
Specialization: Pollution Abatement, Liquid Membrane, Process Intensification  
Among others associated with the school are Prof. Siddhartha Datta, Prof. Ashish Majumdar, Dr. Anupam DebSarkar
5. Research thrust areas as recognized by major funding agencies:
  - Environmental Engineering
  - Process Intensification
6. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.  
National: 05                                  Total grants received\*: Rs 53 Lakhs  
(\*includes Inter-institutional collaborative projects, detailed in Annexure)
7. Publications: (Details in Annexure)
  - \* Number of papers published in peer reviewed journals (national / international): 36
  - \* Citation Index – range / average\*\*:  
Citation range: 0 - 21                                  Average citation/paper: 3.08
  - \* SNIP range\*\*: 0.011 – 1.928
  - \* SJR range\*\*: 0.102 – 2.672
  - \* Impact Factor\*\* –  
Range: 0.45 – 5.257                                  Average: 1.3
  - \* h-index: 07  
(\*\*for papers published between 2008-2013)
8. Details of patents and income generated:  
Areas of consultancy and income generated:  
Name of Faculty: Prof. Alakananda Mukherjee & Prof. Avijit Bhowal  
Title of Consultancy Work: “Design of EMS for High Energy Density Al-AgO Sea Water activated battery”  
Company: DRDO                                  Income generated: Rs 9.0 Lakhs
9. List of doctoral, post-doctoral students and Research Associates  
a) from the host institution/university; b) from other institutions/universities  
Total: 04; Scholars from host institute: 50%, Scholars from other institutes: 50%  
(Details in Annexure)
10. Briefly highlight contributions in generating new knowledge, basic or applied.
  - Designing *efficient pollution control techniques and devices.*
11. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).  
*Strengths*
  - (a) Highly qualified teachers associated with the school
  - (b) A focal point in Jadavpur University for approach by industries with pollution related problems*Weaknesses*
  - (a) Space
  - (b) Limited number of scholarship available for research.
  - (c) Unable to attract talented young students for research
  - (d) Lack of development in the adjoining area related to Chemical Industries

### *Opportunities*

- (a) Scope of multi-disciplinary research
- (b) Scope of collaborative research with other institution in India/ abroad as many senior faculties in those institute are alumni of our Department
- (c) Scope of industrial collaboration or industry – institute partnership for R&D activities as many senior level executives in those corporate houses are originating from Chemical Engineering Department, JU

### *Challenges*

- (a) Modernizing laboratories with the latest available analytical equipments.
- (b) Developing cost effective techniques for pollution abatement
- (c) Motivating students to do research in the school rather than migrating to other institutes.

### 12. Future plans (in as much detail as possible):

- Introducing evening PG course for people working in industries
- Introducing distant learning in specialized fields for industrial people.
- Developing of state-of-the-art laboratory facilities for research

### School of Automotive Engineering

1. Name of the School: AUTOMOTIVE ENGINEERING
2. Year of establishment: 2006
3. Faculty to which attached: FISLM
4. Research thrust areas as recognized by major funding agencies:
  - a) Simulation of Casting for production of defect free Castings related to Automobile Industry and other Industries.
  - b) Study of Micro-structure of Castings.
  - c) Development of Micro-structure required for a certain application in Industry.
5. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

| Project Title  | Funding Agency   | Grant amt.      | Name                    |
|--|--|-----------------|-------------------------|
| “Performance and emission test along with durability test for different TBOs in agricultural diesel generator set” | Government of West Bengal, Department of Biotechnology   | Rs. 10,00,000/- | Prof. R. K. Chakrabarti |
| “R & D and Innovative Centre for Howrah Foundry Cluster”   | DST (TIFAC) [Technology Information, Forecasting and Assessment Council (TIFAC)], (Department of Science & Technology, Govt of India). | Rs. 1.85 crore  | Prof. R. K. Chakrabarti |
| “Modification of divided glass cupolas for Howrah Foundry Cluster”   | DST (TIFAC) [Technology Information, Forecasting and Assessment Council (TIFAC)], (DST, GoI).  | Rs. 1,50,000/-  | Prof. R.K.Chakrabarti   |

6. Projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (Give details.)

| Project Title  | Funding Agency  | Grant amt.     | Name                    |
|--|---|----------------|-------------------------|
| “R & D and Innovative Centre for Howrah Foundry Cluster”           | DST -TIFAC [Technology Information, Forecasting and Assessment Council (TIFAC)], (DST, GoI) | Rs. 1.85 crore | Prof. R. K. Chakrabarti |
| “Modification of divided glass cupolas for Howrah Foundry Cluster” | DST- TIFAC [Technology Information, Forecasting and Assessment Council (TIFAC)], (DST, GoI) | Rs. 1,50,000/- | Prof. R.K.Chakrabarti   |

7. Areas of consultancy and income generated:

#### *Consultancy service & income generated*

1. Manufacture of high P cast iron Rly brake block from cupola metal has been optimized and demonstrated in Rose Island Foundry, Howrah for Rs. 30,000.00 (Rupees Thirty thousand) only. The physical, chemical and metallurgical test reports are approved as per RITES specification.
2. Utilization of swarf as a melting stock for cupola Trials Continuing @ Rs. 5,000.00 per day in Asit Iron Foundry, Howrah.
3. Computer based casting simulation through imported Proe and Procast software providing A clean insight regarding the location and extent of internal defects, ensuing casting “A right first time and every time’. The CAD facility acquired such has been utilized for redesigning the method drawing of seven castings. A few more jobs from Govind Steel, Calcutta Springs and Uma Iron Foundry are expected.

| Casting simulation jobs. |                            |                |              |
|--------------------------|----------------------------|----------------|--------------|
| Sl. No.                  | Name of the foundry        | Number of jobs | Amount (Rs.) |
| 1.                       | Sett iron foundry          | One job        | Free trial   |
| 2.                       | Techno aid private limited | Two jobs       | 15,000.00    |
| 3.                       | Hindustan engg. Industries | One job        | 45,000.00    |
| 4.                       | Bharat engg. Works         | Two jobs       | 10,000.00    |
| 5.                       | Calcutta iron udyog        | One job        | 15,000.00    |
| 6.                       | Govind steel               | One job        | 10,000.00    |
| 7.                       | Kejriwal castings          | One job        | 7,000.00     |
| Total                    |                            |                | 1,02,000.00  |

8. Present details of departmental infrastructural facilities with regard to:
  - a) Library: Being set up
  - b) Internet facilities for staff and students: Existing
  - c) Research laboratories: Four research labs are operating as follows:
    - 1) Casting simulation laboratory,
    - 2) Mechanical testing laboratory,
    - 3) Metallurgical laboratory
    - 4) Chemical laboratory
9. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC)
 

*Strengths*

Development of a network involving Industry, Institutions and Associations for development of the Foundry sector related to Automobile Engineering.

Research of and development of new engine technology

*Weakness*

Paucity of funds

*Opportunities & Challenges*

Direct intervention in the technological field on Automobile Engineering
10. Future plans (in as much detail as possible):
  - a) To generate Research Centres of Automobile Engineering
  - b) To start a new course in Automobile automation systems

### School of Bioscience and Engineering

1. Name of the School: BIOSCIENCE AND ENGINEERING
2. Year of establishment: 1988
3. Faculty to which attached: FISLM
4. Programmes being conducted: School is running only interdisciplinary programmes (PG course and doctoral research) in areas related to Biomedical Engineering and allied sciences. Faculty members of other departments involved include those from Mechanical Engineering, Indian Institute of Chemical Biology, KPC Medical College
5. Number of teaching posts sanctioned, filled and actual (Professor/Associate Professor/Asst. Professor/others):

|                     | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 2          | 1      | 1                            |
| Associate Professor | 1          | 1      | 1                            |
| Asst. Professor     | 2          | 2      | 2                            |
| Other               |            |        |                              |

6. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name                   | Qualification | Designation     | Specialization  | Years of Experience | PhD students, last 4 years |
|------------------------|---------------|-----------------|---|---------------------|----------------------------|
| Prof. D. N. Tibarewala | PhD           | Professor       | Biomedical engineering  | 37                  | 10                         |
| Dr. M. Chakraborty     | PhD           | Asst. Professor | Biomedical Instrumentation and Advanced Materials for High Energy Imaging         | 9.5                 | 1                          |
| Dr. P. Basak           | PhD           | Asst. Professor | Polymeric Biomaterials, Drug delivery system, Microbiology and Tissue Engineering | 3.5                 | 5                          |

7. Percentage of classes taken by temporary faculty – programme-wise information:  
Master of Biomedical Engg: 40% by temporary / adjunct faculty
8. Programme-wise Student Teacher Ratio:  
Master of Biomedical Engg. 11: 1
9. Number of academic support staff (technical): 3  
administrative staff: 2
10. Research thrust areas as recognized by major funding agencies: Biomaterials, Bio-Instrumentation
11. Number and names of faculty with ongoing projects

|                         | Title of Project  | Funding Agency    | Grant (Rs.)    | Date/Duration      |
|-------------------------|---|-------------------|----------------|--------------------|
| Dr. Piyali Basak        |   |                   |                |                    |
|                         | Strategy to Prevent Implant Infection                                   | JU research grant | 50,000/-       | July 2010/2 years  |
| Dr. Monisha Chakraborty |   |                   |                |                    |
| 1.                      | Studies and Applications of II-VI compound based Semiconducting Devices | UGC, New Delhi    | Rs 11,83,800/- | March 2013/2 years |

12. Inter-institutional collaborative projects and associated grants received
  - a) National collaboration: Active research collaboration established with various reputed institutions, such as, NIOH, Kolkata; NIT, Rourkela; C-DAC, Kolkata; CGCRI etc.
  - b) International collaboration None
13. Publications: See Annexure

14. Details of patents and income generated:  
Application filed for an Indian patent “Array based tactile vision for the blind people using multi-directional ultrasonic scanning of environment” (Application No.: 332/KOL/2008 dated 22.02.2008)
15. Areas of consultancy and income generated:  
Instron testing for dental implants, roughly 1 lakh/annum
16. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):
17. Faculty serving in
  - a. National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)

*Dr. D.N.Tibarewala*

#### Invited Talks

- Invited talk on in the seminar BIOED-08 at JIS College of Engineering, Kalyani, February 2008.
- Invited talk on Biomedical Instrumentation in Tech Fest at National Institute of Technology, Rourkela (Orissa), December 2009.
- Invited talk on Some Research Areas for the Students of Biomedical Instrumentation in seminar on trends and development in Biomedical Instrumentation at JIS College of Engineering, July 2010.
- Invited talk on Role of Standardization in Rehabilitation in the seminar organized on the occasion of World Standard Day organized by Bureau of Indian Standards, Kolkata, October 2010.
- Delivered an Invited Talk in the conference on Biomedical Engineering Research & Application: Present Day Scenario and the Future at JIS College of Engineering, Kalyani held in July 2011.

#### Participation in/Organization of Seminars/Workshops:

- Chaired panel discussion in BIOED-08 organized by JIS College of Engineering, Kalyani, February 2008.
- Organized “Surgeons’ Meet” at Jadavpur University, Kolkata, June 2008
- Organized “Workshop on Advance Technology for Baruipur Surgical Instruments Cluster for meeting Market Requirements” at Central Facility Center, Baruipur, December 2009
- Organized vocational training programmes for Technical Staff Of Hospitals In West Bengal with funding from DST, Govt. Of India.
- Chaired a technical session in National Conference on Instrumentation & Control, organized by Heritage Institute of Technology, Kolkata, January 2011.
- Chaired a technical session in the conference on Biomedical Engineering Research & Application: Present Day Scenario and the Future organized by JIS College of Engineering, Kalyani, July 2011.
- Organized ten week evening training programme on Advanced Manufacturing Techniques of Surgical Instruments for workers from Baruipur Surgical Instruments Manufacturing Cluster during July-Oct 2010 & March–June 2012 (Sponsored by TIFAC-DST, Govt. of India).

#### Extension, Outreach and Contribution to the Corporate Life of the University:

- Member of the PhD Selection Committee (under new UGC Rules) of School of Bioscience and Engineering, Jadavpur University.

- Member of committees for Curriculum and Syllabus of Master of Biomedical Engineering on several occasions.
  - Member of the Academic Committees of School of Energy Studies & School of Bioscience and Engineering, Jadavpur University
  - Nominated external Expert Member on Board of Studies for Biomedical Engineering of Banaras Hindu University, Varanasi, UP.
  - Nominated external Expert Member on Board of Studies for Biomedical Engineering of Biju Patnaik University of Technology, Rourkela, Orissa.
  - Nominated external Expert Member on Board of Studies for Biomedical Engineering of North East Hill University, Shillong, Meghalaya.
  - Nominated external Expert Member on Board of Studies for Biomedical Engineering of Birla Institute of Technology (DU)-Mesra, Ranchi, Bihar.
  - Have served as Member Expert (NBA – AICTE) for Biomedical Engineering.
  - Expert Member, JRF/SRF Selection Committees of National Institute for the Orthopaedically Handicapped, Kolkata.
  - Expert Member, Curriculum Development Committee for Biomedical Engineering, National Institute for Technical Teachers' Training and Research, Kolkata.
  - Served as Expert Member in Faculty Selection Committees in various colleges under West Bengal University of Technology.
  - Served as Expert Member in Faculty Selection Committees at North East Hill University, Shillong, Meghalaya.
18. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted: Refresher Courses in Biomedical Engineering, Dr. Manisha Chakraborty and Dr. Piyali Basak
19. Student projects
- percentage of students who have done in-house projects including inter-departmental projects: 80%
  - percentage of students doing projects in collaboration with other universities / industry / institute: 20%
20. Seminars/Conferences/Workshops organized and the source of funding: Programme on Hemodynamics, 16-17 August, 2013, DBT, GoI
21. Student profile programme-wise (in the Current Semester):

| Name of the Programme<br>(refer to question no. 4) | Applications<br>received | Admitted |        | Pass percentage (w.r.t. last<br>graduating batch) |        |
|--|--------------------------|----------|--------|---|--------|
|  |                          | Male     | Female | Male  | Female |
| PG Biomedical Engineering                          | 184                      | 7        | 5      | 100   | 100    |

22. Diversity of students

| Name of the<br>Programme<br>(refer to q. no. 4) | % of students<br>from the same<br>university | % of students from<br>other universities<br>within the State | % of students<br>from universities<br>outside the State | % of students<br>from other<br>countries |
|---|--|--|---|--|
| PG  | 10-20%                                       |  | 10%   | occasional                               |

23. Student progression

| Student progression             | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG                        | NA                          |
| PG to M.Phil.                   | NA                          |
| PG to Ph.D.                     | 25%                         |
| Ph.D. to Post-Doctoral          |                             |
| Employed                        |                             |
| • Campus selection              | >90%                        |
| • Other than campus recruitment | 30%                         |
| Entrepreneurs                   |                             |

24. Diversity of staff

|  |     |
|--|-----|
| Percentage of faculty who are graduates  |     |
| of the same university                   | 66% |
| from other universities within the State | 33% |
| from universities from other States      | -   |
| from universities outside the country    | -   |

25. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period (2008 – 2013): Ph.D.-2

26. Present details of departmental infrastructural facilities with regard to

a) Library: 1

b) Internet facilities for staff and students: Yes

c) Total number of class rooms: 1

d) Class rooms with ICT facility: 1

e) Students' laboratories: 5

f) Research laboratories: 5

27. List of doctoral, post-doctoral students and Research Associates

a. from the host institution/university

1. Suman Ghosal
2. Shaoli Das
3. Priyanka Majee
4. Satyajit Bhunia
5. Bhuvaneshwaran S.P.
6. Subhrangsu Aditya
7. Partha Majumdar
8. Sumana Chatterjee
9. Anwesha Khasnobish
10. Saugat Bhattacharyya
11. Anilesh Dey
12. Subhojit Sarkar
13. Anwesha Banerjee

b) from other institutions/universities

28. Number of post graduate students getting financial assistance from the university. (Give details.) GATE qualified students (5+5)

29. List the distinguished alumni of the department (maximum 10)

- Rana Ghosal (Philips Medical division)  
 Atantra Dasgupta (Philips Medical division)  
 Kunal Pal (Asst. Prof. NIT Rourkella)  
 Ankur Ganguly (Principal SIT Siliguri)  
 Rajib Bag (Principal Seacom Engg. College)  
 Rajdeep Dasgupta (Asst. Prof. NIT shilchar)  
 Biswajit Niyogi (Asst. Prof. JIS)  
 Sandip Bag (Asst. Prof. JIS)  
 Sukumar Roy (HOD, Biomedical Netaji Subhas Engg. College)  
 S. Chattopadhyaya (Scientist, DRDO Tejpur)

30. List the teaching methods adopted by the faculty for different programmes.

Conventional classroom lectures/ Seminars with presentations

31. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Through periodic meeting of Academic Committee

32. Give details of "beyond syllabus scholarly activities" of the department.

Experts are invited to present seminar on advanced research areas regularly



33. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The School is contributing in the field of Bio-instrumentation, Bio-materials and polymers. Though limited in volume, it is nurturing skill in the allied areas of Biomedical Engineering as evidenced through publications.

34. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

*Strength*

Large pool of experts in Jadavpur University and disciplined students

*Weakness*

Lack of infrastructure and funding

*Opportunities*

Increased interest in Bioengineering

*Challenges*

Sustaining the growth with the small size of the group

35. Future plans of the department (in as much detail as possible):

It is envisaged

- i. To set-up laboratory facilities in Biomechanics and improve infrastructure in Bioinstrumentation
- ii. To increase the research output by increases in scholars and teachers
- iii. To improve the facilities by availing grant through FIST or similar type of programmers
- iv. To conduct regularly seminars/ workshops in the allied areas for dissemination of knowledge
- v. To fill-up the vacant posts in priority basis.

## School of Cognitive Science

1. Name of the School: COGNITIVE SCIENCE
2. Year of establishment: 2010; There was a Cognitive Science Programme since 1994 under COSIST Programme. The Centre for Cognitive Science came into existence in 2001 for interdisciplinary and innovative research. In 2010, the Centre was converted to the School of Cognitive Science.
3. Faculty to which the Department/School/Centre is attached: FISLM
4. Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.): M.Phil in Cognitive Science, Ph.D.
5. Courses in collaboration with other universities, industries, foreign institutions, etc.:  
The M. Phil Programme of Cognitive Science is taught by teachers seconded from different departments of the University as well as from other institutions.
6. Examination System: Annual/Semester/Trimester/Choice Based Credit System:  
Semester-Based Examination System for M.Phil in Cognitive Science(2-semester teaching and 2-semester project/dissertation)  
Ph.D. in Cognitive Science – 1 semester of Course Work

7. Number of teaching posts sanctioned, filled and actual:

|                     | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           |            |        |                              |
| Associate Professor |            |        |                              |
| Asst. Professor     | 1 (One)    | None   | None                         |
| Other               |            |        |                              |

8. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance: The School does not have any appointed teacher till date. All teachers and researchers are seconded from various departments from Jadavpur University as well as from other University and Institutions.
  9. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:
    - i. Professor Amita Chatterjee, Professor Emeritus, School of Cognitive Science & National Fellow (2012-2014) of Indian Council of Philosophical Research
    - ii. Professor Mihir Kr. Chakraborty, Visiting Professor, School of Cognitive Science
    - iii. Dr. Amrita Basu, Visiting EEG Expert, School of Cognitive Science
- Invited Scholars
- iv. Professor Micheal van Lambalgen, Department of Philosophy, University of Amsterdam, The Netherlands
  - v. Professor M. G. Narasimhan, School of Humanities, NIAS, Bangalore
  - vi. Professor Asoke Ranjan Thakur, Former Vice-Chancellor, West Bengal State University
  - vii. Professor Anindya Sinha, School of Natural Sciences and Engineering, NIAS, Bangalore
  - viii. Dr. Santanu Ghosh, Research Fellow in Neurology at Harvard Medical School; Research Fellow at Massachusetts General Hospital, Department of Neurology
  - ix. Dr. Phil Hutchinson, Senior Lecturer in Philosophy, Manchester Metropolitan University, Cheshire
  - x. Professor Tista Bagchi, Department of Linguistics, University of Delhi
  - xi. Professor Narinder Kapur, FBPsS Research Department of Clinical, Educational and Health Psychology, University College London
  - xii. Dr. Simon Kramer, Guest Researcher, IMSc, Chennai, India
  - xiii. Attorney David Sternfield
  - xiv. Professor Matthew K. Belmonte, National Brain Research Centre, Manesar
  - xv. Professor Sahid Rahman, Department of Philosophy, University of Lille, France

- xvi. Dr Absos Ali Sheik, Assistant Professor, Department of Mathematics, Burdwan University
  - xvii. Professor Reneke Verbruge, University of Groenningen, Groenningen, Netherlands
  - xviii. Dr. Sujata Ghosh, University of Groenningen, Groenningen, Netherlands
  - xix. Professor Biswambhar Pahi, National Fellow, Indian Council of Philosophical Research & Former Professor of Philosophy, Rajasthan University, Jaipur
  - xx. Sheir Ju, Institute of Logic and Cognition, Zhongshan University, Guangzhou
  - xxi. Huaibin Jing, Institute of Logic and Cognition, Zhongshan University, Guangzhou
  - xxii. Bipin Indurkha, IIIT, Hyderabad
10. Percentage of classes taken by temporary faculty—programme-wise information:  
Adjunct faculty for the M. Phil and Ph.D. courses take 15 classes per module.
  11. Programme-wise Student Teacher Ratio: **10:1**(The total intake of students at the M.Phil level is 10 students; No. of Adjunct Faculty: 06)
  12. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual: There is no sanctioned post of non-teaching staff. Two temporary project-bound appointments (1 Lab Attendant; 1 Office Assistant) were made under the DIT-Sponsored NPPE Project – Phase I.
  13. Research thrust areas as recognized by major funding agencies:  
UGC UPE Phase I (Thrust Research Areas): 2003 - 2008
    - i. Analysis, design and synthesis of representation and reasoning methodologies
    - ii. Design of a Prototype Framework for multi-agent planning, learning and coordination
    - iii. Building a Prototype Testbed for Neuropsychological and Cognitive Research
 DIT Sponsored NPPE Project Phase I (2009 –2012)  
 Thrust Area: Cognition and Perception  
 UGC UPE Phase II (2012 - )  
 Project Title: Cognitive Psychology and Informatics for Neuro-Prosthesis and Rehabilitative Applications
  14. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.  
 All the projects are assigned to the School. Hence there are no individual grants. All the grants are project-based with several sub-projects.  
 Names: Amita Chatterjee, Amit Konar, Mihir Chakraborty, Lopamudra Choudhury, Maushumi Guha, Amrita Basu, Smita Sirker
    1. Localization of brain activations from cortical response by correlating EEG and f-NIRS response to external stimuli: A solution to the well-known Inverse Problem by extended Kalman Filter and Fuzzy Relational Approaches.
    2. Brain Localization Study of Deductive/Inductive Reasoning: The temporal and spatial correlation of brain activity while reasoning with/without uncertainty will be studied.
    3. Neuroprosthesis: Prediction and control of motor actions from cortical signals through tactile feedback.
    4. Study of Perception and Cognition of the visually impaired from Cortical Response
    5. Coordination between the visual and the motor cortex in driving: A system capable of reporting visual/motor/muscle-action failures while the subject is busy in driving. It would generate appropriate alarms for possible failures while the subject is busy in driving. It would generate appropriate alarms for possible failures in driving.

6. Emotion Recognition from 3D face contours, intensity images and cortical response to stimulus
7. Cognitive Typewriter for the Patients suffering from Amyotrophic Lateral Sclerosis: A system that prints characters spelt out in memory.
8. Theory of Mind and its Neuro-imaging Studies
9. Reasoning and Embodied Cognition
10. Brain Imaging Studies of Visual Illusion
15. Inter-institutional collaborative projects and associated grants received
  - c) National collaboration
 

The NPPE Project is a national level project funded by the Department of Information and Technology, comprising of collaborative research with

    - IIT, Delhi
    - CEERI, Pilani
    - IIT, Bombay
    - IIIT, Hyderabad
    - NBRC, Manesar
    - C-DAC, Kolkata
  - d) International collaboration
    - University of Amsterdam, The Netherlands (ICSSR-NWO Research Programme funded the visit of Dr. Smita Sirker)
    - University of Warsaw, Poland (Professor Mihir Kr. Chakraborty)
    - University of Guangzhou, China (Professor Mihir Kr. Chakraborty)
    - Collaboration with the international project of Intellectual Humility and Cultural Diversity in Philosophy (Collaborator: Professor Amita Chatterjee)
    - Amit Konar has collaborations with Prof. Lakhmi C. Jain of University of South Australia in connection with his research on Multi-agent Systems.
16. Projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (Give details.)
  - ICSSR-NWO funded a 3-month visit in 2011 of Dr. Smita Sirker to work under a collaborative project with Professor Micheal van Lambalgen, University of Amsterdam, The Netherlands
  - DIT-funded NPPE-Phase I Projects from 2008-2012; Sanctioned Grant: Rs. 1.5 crores
  - UGC UPE-Phase I Project 2003-2008; Rupees 75 Lakhs was allotted to Centre for Cognitive Science
  - UGC UPE-Phase I Project 2012-14; Rupees 1.8 crores was allotted to the School of Cognitive Science
17. Research facility/centre run by the Dept./school/centre which has:
  - state recognition
  - national recognition: Neuro-imaging Laboratory (consisting of 64-channel EEG machine) with Faraday caging set up in 2011 (funded jointly by DIT and UGC).
  - international recognition
18. Special research laboratories sponsored by / created by industry or corporate bodies: NA
19. Publications: See Annexure
20. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):
21. Faculty serving in
  - a) National committees
  - b) International committees
  - c) Editorial Boards
  - d) any other

(please specify and give details, including the name of the committee/s, position/s held,

- duration, etc.) See Annexure
22. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted: NA
  23. Student projects
    - percentage of students who have done in-house projects including inter-departmental projects: 20%
  24. Awards / recognitions received at the national and international level by
    - Faculty
 

*Dr. Smita Sirker* under the ICSSR-NWO Exchange Program 2010, was invited to visit the University of Amsterdam, The Netherlands for a period of 3 months in 2011 to work on the project 'Factors Indicating Variation in Patterns of Reasoning in Schooled and Unschooled People: A Cross-Cultural Study' in collaboration with Professor. Michiel van Lambalgen, ILLC/Department of Philosophy, University of Amsterdam, The Netherlands.

*Professor Mihir Kr. Chakraborty, Visiting Professor*
- International
- 2008
    - San-Yat Sen University, China, may, 2008
    - Univ. Delgi Studi di Milano, Italy, Sept., 2008
    - Tampere Univ. of Technology, Finland, Sept. 2008
    - Univ. of Helsinki, Finland, October, 2008
    - Univ. of Turku, Finland, October, 2008
  - 2009
    - I.R.I.T., Univ. Paul Sabataire, Toulouse, France, June, 2009
  - 2010
    - Institute Jean-Nicod ENS, Porrs, Apr. 28-May 5
    - San-Yat Sen University, Guangzhon, China, Sept 14-Oct 14, 2010
    - Organizer of RST2010, Zhejiang Ocean University, 19-21 Oct, 2010
  - 2011
    - Sun Yat-Sen University, Guangzhou, China, Research Collaboration with Prof. Shier Ju on Fuzzy Logic and Open
    - University of Catania, Italy, to deliver some lectures on Rough Logic at the invitation of Prof. Salvatore Greco, September 2011.
  - 2012
    - University of Guangzhou, Guangzhou, China, October, 2012
    - Istanbul University, Istanbul, April 2012
  - Doctoral / post doctoral fellows
  - Students (Give details):
 

Anindita Roy, M. Phil student of Cognitive Science was awarded the SRA (SYLFF Research Abroad) Award (2012-2013) for M.Phil level Research on "Red- Light's Children: Co- Constructing their Imagination and Concepts of Identity". She visited the following universities:

    - Department of Psychology, University of Bath, United Kingdom
    - Winnicott Research Unit, (under Dr. Sarah Halligan's supervision), University of Reading, United Kingdom
    - Graduate Centre for International Research in Childhood: Literature, Culture, Media, University of Reading, United Kingdom

25. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):
- Organized a Workshop on 10<sup>th</sup> of March, 2012 on the topic Tagore's Paintings: A Cognitive Perspective.
  - In collaboration with Calcutta Logic Circle and Indian Institute of Bio-Social Research and Development: Logic and Its Applications Sept 2-4, 2011 organised by the School of Cognitive Science
  - Organised a 2-day workshop on Cognitive Appraisal of AI Films, 28-29 August 2010.
  - Organised a two day workshop on Perception Engineering at Jadavpur University in collaboration with CDAC Kolkata under the DIT funded NCPE project on 2<sup>nd</sup> and 3<sup>rd</sup> June, 2010.
  - Organised a workshop jointly with the Calcutta Logic Circle, 14-16 November, 2010.
  - Organized Special Lecture Series by Professor Tim Crane and Professor David Chalmers, 4 January, 2010.
  - Organised a workshop jointly with the Calcutta Logic Circle on On Vagueness and Substructural Logics, 18-20 September, 2009.
  - Organised a workshop on 'The Geometry of Approximations' at the Centre for Cognitive Science, Jadavpur University on 9 November 2009.
  - A 3-day workshop on Logic and Cognition, was organized by the Centre, in collaboration with Calcutta Logic Circle, at Jadavpur University, on 23-25 October 2008. Participants were from Institute of Logic and Cognition, Zhongshan University Guangzhou, China, IIT Kanpur, Chennai Mathematical Institute Chennai, TIFR Mumbai, ISI Kolkata, Department of Pure Mathematics, Kolkata and Centre for Cognitive Science, Jadavpur University.
26. Code of ethics for research followed by the department: We strictly follow the ICMR Ethics Code for conducting behavioral studies involving human subjects along with Helsinki Declaration (2000) and NIH Human Research Protection Programme.
27. Student profile programme-wise (in the Current Semester):

| Name of the Programme<br>(refer to q. no. 4) | Applications received | Admitted |        | Pass percentage (w.r.t. last graduating batch) |        |
|--|-----------------------|----------|--------|--|--------|
|  |                       | Male     | Female | Male   | Female |
| M. Phil                                      | 120                   | 04       | 04     | 100%   | 100%   |

28. Diversity of students

| Name of the Programme<br>(refer to q. no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| M. Phil                                      | 90%                                    | 10%  |   |                                    |
| Ph. D  | 90%                                    | 10%  |   |                                    |

29. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

NET: 05

30. Present details of departmental infrastructural facilities with regard to

- Library: 1,000 books (approx.)
- Internet facilities for staff and students: Internet facility is provided for the adjunct faculty members, research fellows, project fellows and M.Phil/Ph.D students.
- Total number of class rooms: 1 Classroom with laboratory facilities
- Class rooms with ICT facility
- Students' laboratories: 1 (One)
- Research laboratories: 1 (One)

31. List of doctoral, post-doctoral students and Research Associates
  - a) from the host institution/university:
    - i. Nairitta Bhattacharya, Ph.D. Scholar
    - ii. Simon Coelho, Ph.D. Scholar
    - iii. Dana Sugu, Ph.D. Scholar
    - iv. Srimoyi Bhattacharya, Ph.D. Scholar
  - b) from other institutions/universities
    - i. P. Sulakshana Rao, Ph.D. Scholar
32. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.
 

Special Lectures:

  - i. Series of lectures on 'First Order Predicate Logic & Modal Logic' on and from 8th December 2010 by Professor Mihir Kr. Chakraborty
  - ii. Professor ShahidRahman, Department of Philosophy, University of Lille, France delivered a series of lectures, 23-24 March 2011
  - iii. Professor RenekeVerbrugge, University of Groningen, Groningen, delivered a series of lectures, 5-7 September 2011.

Invited Series of Lectures:

  - i. Prof. Ashok Ranjan Thakur, former Vice-Chancellor of West Bengal State University, delivered a series of eight lectures on Molecular Neurobiology, 2012.

Workshops:

  - i. One-day workshop on Signal Processing and Analysis, 2012.
  - ii. One-day workshop on Tagore's Paintings: A Cognitive Perspective, 2012.- 33. List the teaching methods adopted by the faculty for different programmes.
 

Teaching methods at the M.Phil and Ph.D levels are mostly interactive. Various tools like projectors and laptops are used in classroom teaching.
- 34. Highlight the participation of students and faculty in extension activities.
  - Researchers of the School are involved in social and cognitive projects which gave them the opportunity to work with the under-privileged and cognitively challenged members of society.
- 35. Give details of "beyond syllabus scholarly activities" of the department.
  - Exploration of the on-going research fields under Cognitive Science by the scholars and researchers of the School. Regular weekly-seminars and workshop are conducted for students and researchers.
- 36. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
  - Brain-based studies is a new branch of research in India. It is highly interdisciplinary in nature. The School has been able to initiate and develop brain based studies pertaining to different aspects of human cognition. This is heading towards developing an EEG-ERP database of Indian population.
  - The School is also contributing towards dissemination of knowledge regarding cognitive disabilities, learning impairments, limitation of human memory, cognitive development of brain in children, reasoning, etc. among the student population and senior citizens.
- 37. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.
 

*Strengths*

  - A state-of-art Electrical Neuro-Imaging Laboratory with a 64-channel Neuroscan system in Eastern region of India has been developed.

- The School focuses on brain-based studies involving both neurological and cognitive studies.
- M.Phil in Cognitive Science course which was introduced in 2007 is running successfully. The School has also introduced its Ph.Dprogramme in Cognitive Science.
- Many M.Phil students from the School have been successful in pursuing their doctoral in different international universities and research laboratory.

#### *Weaknesses*

- With the extension of academic activities and research projects, the School faces a space-crunch in introducing new academic programmes with the existing infrastructure.
- The School does not have permanent faculty (only 1 post has been sanctioned and advertised). Sanction of few more posts is essential to run the different academic programmes successfully.
- The School does not have any sanctioned non-teaching post.
- The School possesses more than 1000 books. However, there is not enough space to accommodate all the available resources and expand it further.

#### *Opportunities*

- The School is in a position to provide inter-disciplinary research facilities for brain-imaging studies.
- The School has provided basic EEG training to various students and technicians from time to time.
- The School provides higher level logic programs to students from various universities at regular intervals.

#### 38. Future plans (in as much detail as possible):

- The School plans to develop an extended EEG-ERP database of Indian population based on various pressing cognitive issues. Since there is an absence of such Indian database till date, we hope to develop and provide avenues for future research.
- The School aims at addressing cognitive issues and challenges of auditory/visually challenged Indian population by conducting different cognitive studies in order to enhance their quality of life through some mechanical aids.



## **School of Cultural Texts and Records**

1. Name of the Department/School/Centre: CULTURAL TEXTS AND RECORDS
2. Year of establishment: 2003
3. Faculty to which the School is attached: FISLM
4. Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.): PhD; PG Diploma in Digital Humanities and Cultural Informatics under UGC Innovative Programmes (granted from the 2013 session); Certificate in Editing and Publishing (Three-Month)
5. Interdisciplinary programmes being conducted and other departments involved:  
All programmes are Interdisciplinary. Faculty involved are from the departments of English, Bengali, Comparative Literature, History, Film Studies, Computer Science, and the schools of Education Technology, Distributed Computing, Media Communication and Culture
6. Examination System: Annual/Semester/Trimester/Choice Based Credit System  
Semester (PhD Coursework)  
Semester (PG Diploma in Digital Humanities and Cultural Informatics)
7. Number of teaching posts sanctioned, filled and actual (Professor/Associate Professor/Asst. Professor/others): None (2 Asst Professors sanctioned from 1.4. 2013)
8. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance: No permanent faculty appointed yet.
9. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors: Eminent Scholars who visited the School primarily in connection with the Bichitra Project included:  
Sri Shankha Ghosh  
Sri Subimal Lahiri  
Prof. Peter Shillingsburg, Loyola University, Chicago  
Prof. Paul Eggert, University of New South Wales  
Prof. Edward Vanhoutte, Royal Academy of Dutch Language and Literature, Ghent  
Dr. Mandar Mitra, Indian Statistical Institute, Kolkata  
Dr. Anna Gerber, University of Queensland  
Prof. Susan Schreibman, Trinity College, Dublin  
Prof. George Thiruvathukal, Loyola University, Chicago  
Eminent Scholars who visited the Music Archives of the School included:  
Dr. Adrian McNeil, Macquarie University, Sydney, Australia  
Dr. Katherine Butler Brown, King's College, London  
Dr. Partha Datta, Delhi University  
Prof. Lakshmi Subramaniam, CSSS, Kolkata  
Prof. Sugata Marjit, WB Higher Education Council  
Jonathan Ray Barlow, Independent Scholar  
Dr. Urmila Bhirdikar, Central University of Gujarat  
Sri Abhijit Banerjee, Tabla Exponent  
Vidushi Purnima Sen, Vocalist,  
Pandit Ulhas Kashalkar, Vocalist  
Sri Anindya Banerjee, Sarod Exponent  
Visiting faculty for the CERTIFICATE COURSE IN EDITING AND PUBLISHING:  
AnandaLal- Professor of English, Jadavpur University  
AngshumanChakraborty- Publishing Operations Director, Pearson Education International  
Arunava Sinha- Translator

Ashish Arora- Assistant Vice President, Digital Publishing & Production Editorial, Macmillan India

Daniel Luiz- Project Editor, Pearson Education International

DevalinaMookherjee- Freelance Editor and Researcher

Diya KarHazra- Publisher, Bloomsbury India

MandiraSen- Director, Stree-Samya

Mrinmoyee Sinha- Freelance E-Publishing Professional

Padmini Ray Murray- Lecturer, Publishing Studies, University of Stirling

ParameshwariSircar- Copy Editor, Routledge India

Pinaki De- Assistant Professor of English, Uttarpara Raja Peary Mohan College

Pradipta Sarkar- Commissioning Editor, Rupa Publications India

Rimi B. Chatterjee- Associate Professor of English, Jadavpur University

Ronnie Gupta- Print and Production Manager, Hyam Enterprises

SandhyaGhoshal- Acquisitions Editor, Pearson Education International

Sohini Bhattacharya- Publicity Manager, Hachette India

SomnathBasu- Freelance Editor

Sumita Roy Head- Rights, Contracts and Translations, Oxford University Press India

Trinankur Banerjee- Assistant Editor, The Times of India

Urmirupa Pal- Editor and Designer, Jadavpur University Press

V. K. Karthika- Publisher and Chief Editor, HarperCollins India

10. Percentage of classes taken by temporary faculty – programme-wise information: 70%

11. Research thrust areas as recognized by major funding agencies:

Preservation of endangered cultural heritage, in particular,

- a. digital text archiving
- b. digital music archiving
- c. electronic editing
- d. digital humanities

12. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

a. *National*

a) Prof. Sukanta Chaudhuri (with Prof. Subha Chakraborty Dasgupta and Dr. Samantak Das): ‘Bichitra’, A Tagore online variorum, funded by the Ministry of Culture, Govt. of India. Grant: Rs. 2,80,00,000/- (approx.).

b) Prof. Amlan Das Gupta (with Dr. Abhijit Gupta and Rajyeswar Sinha): Documentation of Cultural Texts, under the ‘Cultural Resources’ Programme, ‘University with Potential for Excellence Scheme, Phase II’, Supported by the UGC. Funds allotted for the period of August 2012 – March 2013: Rs. 39,18,200/-. The project is being continued in the second year.

b. *International*

a) Prof. Amlan Das Gupta: Digitization of South Asian Archival Resources, funded by the Sir Ratan Tata Trust, Mumbai. Funds allotted for 3 years: Rs. 4526000/-.

b) School of Media, Culture and Creative Arts, Curtin University for the Digitisation and Machine readable encoding of the novels of Thomas Hardy

13. Inter-institutional collaborative projects and associated grants received

*National collaboration*

- i. Indira Gandhi National Centre for the Arts, New Delhi
- ii. University of Calcutta
- iii. RabindraBhavana, Visva-Bharati, Santiniketan

- iv. Victoria Memorial Hall, Kolkata
- v. MaulanaAbulKalam Azad Institute of Asian Studies, Kolkata
- vi. West Bengal State University, Kolkata
- vii. Tribal Research and Training Centre, Chaibasa, Jharkhand
- viii. Bengal Chamber of Commerce, Kolkata

*International collaboration*

- i. British Library, UK
14. Projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (Give details.)
- i. Collaborative Project with IGNCA, New Delhi for digitizing and creating video interviews, 2007-2011; approximately 10 lakhs
  - ii. UGC-Innovative Programmes Scheme, PG Diploma Course in Digital Humanities and Cultural Informatics, 2013-2018, Rs. 40 lakhs approx.
15. Research facility/centre run by the Dept./school/centre which has:
- state recognition
  - national recognition
  - international recognition
- Text Archive (awarded national and international grants)  
 Music Archive (awarded projects by British Library, UK)  
 Centre for Electronic Editing (awarded major project by Ministry of Culture, GoI).
16. Faculty serving in
- a) National committees

*Supriya Chaudhuri*

- 1. Former Director, School of Languages and Linguistics, Jadavpur University
- 2. Former Co-ordinator, Centre of Advanced Study in English at Jadavpur University
- 3. Member, Advisory Board, National Library of India (until October 2012)
- 4. Chairperson, MHRD Committee for Innovation University in the Liberal Arts
- 5. Member, Vision Committee for redesigning the RabindraSadan-Nandan Cultural Complex
- 6. Member, Advisory Committees of the School of Women's Studies, School of Cognitive Sciences, School of Media, Communication and Culture, Jadavpur University
- 7. Visitor's Nominee, Central University of Kashmir, Central University of Orissa
- 8. Member, National Panel of Assessors, National Assessment and Accreditation Council (NAAC), India, conducting academic review of universities and colleges

*Swapan Chakravorty*

- 1. Director, National Library of India, from April 2010 – May 2013.
- 2. Curator, Victoria Memorial, 2011 – 2013.
- 3. Member, National Commission for Co-operation with UNESCO
- 4. Member, Governing Board, Institut de Chandernagore

*Amlan Das Gupta*

- 1. Expert Committee, Prasar Bharati, Group on Archiving
- 2. Technology and Options Committee, PrasarBharati
- 3. Expert Group, National Audio-Visual Archives, IGNCA
- 4. Member, Examination Boards, Kalyani University and VisvaBharati
- 5. Member, Advisory Committee, Sir CV Raman Centre for Physics and Music, JU

*Abhijit Gupta*

- 1. Director, Jadavpur University Press,

b) International committees

*Supriya Chaudhuri*

Member of Congress Committee for 10<sup>th</sup> International Shakespeare Association Congress, Stratford and London, 2016

*Abhijit Gupta*

1. Member, Advisory Board, *Book History*, Penn State University Press
2. Member, Board of Directors, Society for the History of Authorship, Reading and Publishing (SHARP)

c) Editorial Boards

*Supriya Chaudhuri*

1. Member, Editorial Board, *Shakespeare Quarterly*
2. Member, Editorial Board, *Journal of Victorian Culture*
3. Member, Editorial Board, *Shakespearean International Yearbook*
4. Member, Editorial Board, *South Asian Review of English*

*Swapan Chakravorty*

Member, Editorial Board Member, *Inquire: A Journal of Comparative Literature*, University of Alberta

*Abhijit Gupta*

Member, Board of Editors, *Book History*, eds. Jonathan Rose and Ezra Greenspan

*Supriya Chaudhuri*

1. Member, International Shakespeare Association
2. Member, Society for Renaissance Studies, London
3. Member, International Spenser Society
4. Member, Shakespeare Society of India

*Swapan Chakravorty*

1. Member, International Shakespeare Association
2. Member, Society for the History of Authorship, Reading and Publishing
3. Life Member, Shakespeare Society of India
4. Member, Indian Institute of Advanced Study Society

*Amlan Das Gupta*

Life Member, Society of Indian Record Collectors, Mumbai

17. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

*International*

- a) 15-16 January 2013, 2-day international research symposium entitled "Owning and Using: Circuits of Knowledge in North Indian Classical Music" held under the auspices of the Cultural Resources and Social Science Programme (Funding: UPE-II).
- b) International Workshop on Electronic Editing on 9-11 February 2012 at the School of Cultural Texts and Records, Jadavpur University. (Funding: Bichitra Project, Ministry of Culture, Govt. of India.)
- c) Digital Humanities: Problems and Prospects: SCTR, Anita Banerjee Memorial Hall, UG Arts Building, Faculty of Arts, Jadavpur University Monday, 27 June, 2011.

*National*

- a) Machine Readable Texts in Bangla: Issues and Practices School of Cultural Texts and Records, Jadavpur University 2-Day Workshop, December 7-8, 2012, Friday Audio-Visual Room, Dept. of English, Jadavpur University (Sir Ratan Tata Trust)
- b) Inaugural Shakti Chattopadhyay Memorial lecture, SCTR, JU, delivered by Dr Alokranjan Dasgupta, February, 2013 (SCTR)

- c) Workshop on South Asian Archival resources on May 16, 2013 at Anita Banerjee Memorial Hall, Jadavpur University (Sir Ratan Tata Trust)

18. Code of ethics for research followed by the department :

- The University has an Ethics Policy and has set up a committee to review any particular issue.
- The School holds large archives of textual and audio visual material and holds itself subject to national and international guidelines on Intellectual Property Rights and Copyright.
- The School complies with the requirements of the UNESCO mandate on Intangible Cultural Heritage (ICH), WIPO recommendations on Traditional Cultural Expressions, and the recommendations of the International Association of Audio and Audio Visual Archives (IASA) embodied in its document TCO-3.
- The School is developing, in collaboration with M/s Glonet Technology, UK, a comprehensive Ethics Document, to cover all its activities.

19. Student profile programme-wise (in the Current Semester):

| Name of the Programme<br>(refer to question no. 4) | Applications<br>received | Admitted |        | Pass percentage (w.r.t. last<br>graduating batch) |        |
|--|--------------------------|----------|--------|---|--------|
|  |                          | Male     | Female | Male  | Female |
| PhD  | 30                       | 3        |        |   |        |
| PG Diploma in DHCI                                 | 31                       | 21       |        |   |        |

20. Diversity of students

| Name of the Programme<br>(refer to question no. 4) | % of students<br>from the same<br>university | % of students from<br>other universities<br>within the State | % of students from<br>universities outside<br>the State | % of students<br>from other<br>countries |
|--|--|--|---|--|
| PhD  | 67   |  | 33  |  |
| PG Diploma in DHCI                                 | 75   | 20   | 05  |  |

21. Present details of departmental infrastructural facilities with regard to

- Library: Approximately 2000 volumes
- Internet facilities for staff and students: Yes
- Total number of class rooms: 1
- Class rooms with ICT facility: 1
- Students' laboratories: 1
- Research laboratories: 3

22. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university
  - Doctoral: 4;
  - Project Officer: 1
  - Research Fellow: 3
  - Project Fellow: 5
- from other institutions/universities
  - Doctoral: 1
  - Project Fellow: 2;
  - Technical Consultant: 1;
  - Administrative Assistant: 1

23. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

For Projects:

- Technical Feasibility Survey (Internal, including audit of staff and equipment)
- Survey of Local Archives (Housing, Cataloguing, Physical Condition)
- Costing (Manpower, Equipment, Storage, Travel, Ancillaries and Administration)

For PG Diploma course in Digital Humanities and Cultural Informatics (UGC Innovative Programme)

- a) Survey of similar courses nationally (None found)
- b) Correspondence with international centres offering similar courses.
- c) Survey of Employment Possibilities

24. Does the department obtain feedback from:

- a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? To be introduced for current session
- b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? To be introduced for current session alumni and employers on the programmes offered and how does the department utilize the feedback? To be introduced for current session

However, we are in constant touch with publishing houses in India and abroad over alumni of our three-month Editing and Publishing certificate course and course components are redesigned according to industry needs every year.

25. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- a) New Research in the Humanities: The School has introduced a series of lectures on New Research in the Humanities with national and international participation from May 2012. The following sessions have been held:
  - i. New Research in the Humanities – I: Rabindranath by Spandana Bhowmik, May 29, 2012.
  - ii. New Research in the Humanities – II 19<sup>th</sup> Century Bengali Prose by Rangeet Sengupta, 28 June 2012.
  - iii. New Research in the Humanities – III: Vinayak Dasgupta, Trinity College, Dublin, 'An Overview of the Changing Nature of Reading', 25 July 2012
  - iv. New Research in the Humanities – IV "Musical transitions to colonialism: Delhi – Awadh – Kolkata" An informal talk about the ERC Musical Transitions project by Katherine Butler Schofield, King's College, London, August 27, 2012
  - v. New Research in the Humanities – V: 'Semantics from Shape: Computational Models of Concepts, Attributes and Functions' by Siddhartha Chaudhuri, Computer Science, Princeton University, June 17, 2013.
- b) Audit Course on North Indian Classical Music: The School has run two 50-hour, 12-week Audit Courses on *The History of North Indian Classical Music: Tradition, Theory, Practice*. The course has proved extremely popular. Classes are taken by Archive staff and visiting experts.
- c) Short Courses in Bibliography and Documentation: The School conducts short training programmes of one or two weeks in bibliography, documentation and textual research, including the use of electronic resources. The material used in these courses is being compiled into a textbook.
- d) A course, on 'Digitization and Textual Archiving', was conducted from 1 to 11 September 2009 under the aegis of the Endangered Archives Programme. There were 18 sessions in which the participants were trained in the general principles of physical and digital archiving as well as handling the technology involved and processing metadata. Basic instruction was offered in scanning, digital photography, use of imaging tools and software for compiling metadata. The resource persons included library and computer professionals as well as academics.

- e) Training Programme in Music and Music Archiving: A seven-day in-house training programme was conducted in November 2009 by Shri Subrata Sinha and Dr Amlan Das Gupta
- f) A further two-day training programme was conducted from 2-3 January 2010 by visiting artists and guest speakers. Sm Urmila Bhirdikar, Shri Rajeev Paranjpe and Sm Manjusha Patil participated.
- g) Listening Sessions: Approximately 30 2-3 hour long listening sessions on North Indian Classical Music have been held by the Archive of North Indian Classical Music as part of its outreach activity.
- h) Music Programmes: The School has arranged several music programmes in the form of lecture-demonstration featuring renowned artists, including Ustad Shahid Parvez Khan, Sm Manjusha Patil, Sri Rajiv Paranjpe, Ustad Muhammad Ahmad Warsi Nasiri and party, Pt. Anidya Banerjee, Dr Adrian McNeil, Ustad Irfan Muhammad Khan, Pt. Abhijit Banerjee and Sri Subhranil Sarkar
- i) Exhibition and Workshop: The School presented an exhibition on "Printing and Book Production in Bengal" in collaboration with the British Council, East India, and the Indian Council for Cultural Relations, at the Rabindranath Tagore Centre, Kolkata, from 14 to 21 February 2009.

Our visitor Dr Fiona Ross, assisted by Mr Jo De Baerdemaeker, conducted a two-day workshop entitled "Imposing Characters: A Workshop on Type and Typography" on 17 and 18 February 2009 at Professor Anita Banerjee Memorial Hall, to accompany the exhibition on "Printing and Book Production in Bengal". The workshop was co-ordinated by Professor Swapna Chakravorty.

26. List the teaching methods adopted by the faculty for different programmes.

- a. Conventional classroom (Blackboard)
- b. ICT enabled classroom
- c. Practical Workshop
- d. Lab based

27. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

A regular monitoring system is in place. As one of the principal activities of the School has been, and is, execution of externally funded projects, a rigorous project management system has been evolved, particularly in respect of the EAP projects and the Bichitra project. These include supervision of daily output, weekly review, data integrity checks, database integrity checks, colour checking, md5 hashtags, and maintenance of high standards of physical preservation of data.

28. Highlight the participation of students and faculty in extension activities:

The participating faculty and project staff are equally responsible for all extension activities.

29. Give details of "beyond syllabus scholarly activities" of the department.

All of the above

30. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: The Research Councils UK lists the School as a "Centre of Excellence" in its report published in June 2010. (<http://www.rcuk.ac.uk/documents/india/humanitiesresearchlandscape.pdf>). The School has current or completed collaborative arrangements with many institutions, national and international, and is consulted as a body and individually for advice on digital archiving, electronic editing and textual studies. Some are listed below:

Ministry of Culture, Government of India  
 University Grants Commission, Government of India  
 Prasar Bharati, Government of India

Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata  
 Sir Ratan Tata Trust, Mumbai  
 Rabindra-Bhavana, Visva-Bharati, Santiniketan  
 The British Council, Eastern Regional Office, Kolkata  
 The Indira Gandhi National Centre for the Arts, New Delhi  
 The Central Institute of Indian Languages, Mysore  
 King's College, London  
 British Library, UK  
 The University of Bologna, Italy, in its Departments of Italian Studies and  
 Oriental Studies  
 The Victoria University of Wellington, New Zealand  
 Curtin University, Australia  
 University of Sydney, Australia  
 University of New South Wales, Australia

31. Briefly highlight contributions in generating new knowledge, basic or applied.

The School of Cultural Texts and Records was set up to promote innovative inter-disciplinary research in the following general areas:

- editing manuscripts and printed texts, especially those requiring multidisciplinary inputs, in electronic and print form;
- preparing databases, bibliographies, concordances, indexes, handlists, location registers and other reference tools and search engines for cultural and textual studies;
- studying the history of publishing and the printing press, especially in Bengal and in India as a whole;
- recording oral literature, oral history, interviews and other oral material;
- cross-modal or cross-segmental documentation: i.e., gathering material of different categories and genres in relation to a particular date, event or theme;
- collection of ephemera (political and commercial publicity material, job printing work etc.);
- developing the resources for cultural informatics in India by accessing and developing appropriate technology for the above activities: in particular, creating appropriate software;
- publishing the output in printed and digital (including online) form.

It has pioneered work in India in the following areas:

Digital Archives; Electronic Editing; Textual Studies; Indic Language Text Software and generally in the emerging area of Digital Humanities and Cultural Informatics.

32. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).

| <i>Strengths</i>                                 | <i>Weaknesses</i>  | <i>Opportunities</i>  | <i>Challenges</i>  |
|--|--|---|--|
| expertise of supervisory faculty                 | lack of space  | role in preservation of tangible and intangible cultural heritage   | poor awareness regarding endangered cultural material          |
| commitment of project staff                      | lack of permanent staff  | role in international archiving movement                            | lack of uniform standards in preservation                      |
| university location and rich human resources     | poor involvement of younger faculty                                    | pioneering digital humanities in india                              | lack of electronic resources for indic languages               |
| interdisciplinarity                              | lack of customized, dehumidified and airconditioned storage facilities | setting standards in processing of indic language cultural material | problems of migration to higher technical platforms            |
| standing in, and support of, scholarly community | lack of long-term funding  | advocacy at national and international levels                       | ensuring steady flow of funds for maintenance and new projects |



### 33. Future Plans:

To build up a complete range of Indian material relevant to cultural informatics, and develop software and electronic resources for the same. Our prospective tasks include:

.Electronic collation of more works by writers in Indian languages.

Expansion of literary and cultural archives

Expansion of music archives.

Creation of more software for documentation and editing of cultural material.

Completion of the Bengali Bibliographical Database.

Online archive of early Bengali books.

Extending and consolidating our pioneering collections of ephemera and chapbooks.

Extending training course in Editing and Publishing to Bengali and other Indian languages.

Opening new course in Electronic Text Processing.

Opening masters level courses in Digital Humanities and Cultural Informatics

Creation of a Centre for Digital Humanities Research in India

## School of Education Technology

1. Name of the School: EDUCATION TECHNOLOGY

2. Year of Establishment: 1988

3. Faculty to which the School is attached: FISLM

4. Names of programmes offered

| Name of the course   | Duration                         |
|--|----------------------------------|
| Master in Multimedia Development, (4-semester)                                       | 2 Years                          |
| M. Tech IT (Courseware Engineering), (4-semester)                                    | 2 Years                          |
| M. Tech IT (Courseware Engineering), (Distance mode), (6-semester)                   | 3 Years (discontinued from 2010) |
| Post Graduate Diploma in Multimedia and Web Technology (Distance mode), (2-semester) | 1 Year                           |
| Post Graduate Diploma in Risk Management and Financial Engineering, (2-semester)     | 1 Year                           |
| M.A in Environment and Development (Distance mode), (4- semester)                    | 2 Years                          |
| Ph D (Engineering)   |                                  |

5. Interdisciplinary programmes being conducted and other departments involved: MA in Environment and Development.

6. Courses in collaboration with other universities, industries, foreign institutions, etc.:

Post Graduate Diploma in Risk Management and Financial Engineering offered jointly with Brunel University, Uxbridge, UK.

7. Details of programmes discontinued, if any, with reasons: M. Tech IT (Courseware Engineering), (Distance mode; 6-semester) was discontinued as the programme was not recommended by the Joint Committee of UGC-AICTE-DEC.

8. Examination System: Annual/Semester/Trimester/Choice Based Credit System: Semester

9. Number of teaching posts sanctioned, filled and actual:

|                                   | Sanctioned           | Filled | Actual (including CAS & MPS) |
|-----------------------------------|----------------------|--------|------------------------------|
| Professor                         | 02 + 01 (XI th Plan) | 00     | 00                           |
| Associate Professor               | 02                   | 01     | 01                           |
| Assistant Professor               | 01                   | 01     | 01                           |
| Assistant Professor (Contractual) | 04                   | 03     | 03                           |
| Emeritus Professor                |                      |        | 02                           |

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name                        | Qualification                                 | Designation                       | Specialization   | Years of Experience | PhD students, last 4 years                            |
|-----------------------------|---|-----------------------------------|--|---------------------|---|
| Dr. Matangini Chattopadhyay | PhD   | Associate Professor               | Distributed Object Comp., Interoperability, Mobile Multimedia Comm., Software Engineering, Multimedia Technology, Education Technology | 22                  | Ph D degree awarded :01<br>Registered PhD student: 04 |
| Dr. Ranjan Parekh           | Ph. D (Engineering)                           | Assistant Professor               | Software Engineering, Multimedia Technology, Education Technology, Multimedia Database, Courseware Engineering                         | 21                  | Registered PhD student: 01                            |
| Mr. Arunasish Acharya       | MSc (Maths), Master in Multimedia Development | Assistant Professor (Contractual) | Multimedia Technology, Education Technology, Courseware Engineering  | 09                  |   |
| Ms. Saswati Mukherjee       | M.C.A, Master in Multimedia Development       | Assistant Professor (Contractual) | Wireless Network Security, Intrusion Detection in Wireless Sensor Network and Cryptography.  | 07                  |   |

| Name                  | Qualification                             | Designation                       | Specialization                                | Years of Experience | PhD students, last 4 years |
|-----------------------|---|-----------------------------------|---|---------------------|----------------------------|
| Mr. Joydeep Mukherjee | M.C.A, M.Tech IT (Courseware Engineering) | Assistant Professor (Contractual) | Computer Application, Courseware Engineering. | 06                  |                            |

11. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:

| Name                        | Qualification | Designation        | Specialization                     | Years of Experience | PhD students, last 4 years |
|-----------------------------|---------------|--------------------|------------------------------------|---------------------|----------------------------|
| Professor Kalyankumar Datta | Ph. D         | Emeritus Professor | Control Systems Engineering        | 40                  | 05                         |
| Professor Subrata Pal       | Ph. D         | Emeritus Professor | Mechanical Engg. Bio-medical Engg. | 44                  | 02                         |

12. Percentage of classes taken by temporary faculty – programme-wise information:

63% of classes are taken by temporary faculty for two programmes – Master in Multimedia Development and M. Tech IT (Courseware Engineering)

13. Programme-wise Student Teacher Ratio: Master in Multimedia Development - 25:1; M. Tech IT (Courseware Engineering) – 18:1

14. Number of academic support staff (technical) and administrative staff:

|                                    | Sanctioned | Filled | Actual                           |
|------------------------------------|------------|--------|----------------------------------|
| Academic support staff (technical) |            |        | Nil                              |
| Administrative staff               |            |        | 02 (permanent)<br>04 (temporary) |

15. Research thrust areas as recognized by major funding agencies:

- 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

16. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

- a) Dr Matangini Chattopadhyay as Principal Investigator, Professor Samar Bhattacharya and Dr Ranjan Parekh as Co-Principal Investigators.  
“Design and Development of Web Based Teaching Material for Undergraduate and Postgraduate Laboratory”  
Funding Agency: UPE II, 2012 –2014, Rs. 50.00 Lakhs.
- b) Dr Matangini Chattopadhyay as Principal Investigator, Saswati Mukherjee as Co-Principal Investigator.  
“Studies on Intrusion Detection in Wireless Network”  
Funding Agency: UPE II, 2012 - 2014, 5.00 Lakhs.
- c) Departmental / Individual: Prof. Subrata Pal – Co-Principal Investigator  
“Development of Tissue Expander and Micro vascular Device for Human System”,  
Project completed.  
Funding Agency: DST, Govt. of India, 2010-2013, Rs 45.00 Lakhs.
- d) Prof. Subrata Pal  
“Utilisation of Waste Egg Shell for Development of Artificial Bone substituting Material”  
Funding Agency: WBPCB 2009-2011
- e) Prof. Subrata Pal – Co-Principal Investigator  
“Development of Tissue Expander and Microvascular Device”  
Funding Agency: DST, Govt. of India – 2010-2013, Rs. 45 Lakhs.
- f) Prof. Subrata Pal  
“Design of Artificial Human Joints & Organs”  
Funding Agency: AICTE
- g) Prof. Subrata Pal  
Book writing “Health & Safety in Industries & Hospitals”  
Funding Agency: DST, Govt. of India
- h) Collaborative programme between School of Education Technology and IGNOU under the coordinatorship of Prof. Samar Bhattacharya  
“Implementing Education Training project on Animation and Multimedia Technology for North-Eastern Region”  
Funding Agency: DOEACC, Kolkata
- i) Collaborative programme between School of Education Technology and Brunel University, UK under the coordinatorship of Prof. Samar Bhattacharya  
“Risk Management and Financial Engineering” (UKIERI programme)  
Funding Agency: British Council
- j) Dr. Matangini Chattopadhyay and Ms. Saswati Mukherjee are Co-Principal Investigators, Prof. Samiran Chattopadhyay is the Principal Investigator  
“Studies in Wireless and Mobile Networks: Aspects of Multicasting, Optimization and Security”  
Funding Agency: M/S Interra Systems (I) Pvt. Ltd., Rs. 7.00 lakhs.

#### 17. Inter-institutional collaborative projects and associated grants received

##### *National*

- IGNOU
- ISI, Kolkata
- CMC Ltd., Kolkata
- DOEACC Society, Kolkata Centre
- Techno India, Kolkata
- Siliguri Institute of Technology, Siliguri
- St. Thomas College of Engg. and Tech., Kolkata
- Haldia Institute of Technology, Haldia
- Jalpaiguri Government Engg. College

- 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” through live and two-way interactive Digital Network. MOU signed in November 2011; commencement June 2012

*International*

- Brunel University, Uxbridge, UK
- Professor Tapan Kumar Ghoshal, Professor Siddhartha Datta, Professor Samar Bhattacharya, Dr. Satyaki Bhattacharya, Mr. Gaur Kishore Pattanayak and Professor Pramatha Nath Basu visited Brunel University, UK, in connection with UKEIRI project of the British Council in February, 2010. This was a scheduled programme of the UKIERI project. The problems of study materials and teachers’ participation from Brunel and official procedures of the project for better management were discussed with members of Brunel University.
- Visited Leicester University, UK, in February 2010, for exploring a possible collaborative programme between the two Universities. There was a detailed discussion on the possibilities. Both the Universities are currently looking into the opportunities for applying for grants. Academic exchanges between JU members and the members of Leicester University were very fruitful. JU members present were Professor Tapan Kumar Ghoshal, Professor Samar Bhattacharya and Professor P N Basu.
- Dr. Ranjan Parekh is engaged in collaborative research on “Use of Multimedia in Telemedicine” with School of Business, Montclair State University, NJ, USA.

18. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (Give details.)

| Year    | No. of Projects awarded by the UGC                  | No. of Projects awarded by other agencies | Funds approved (in lakhs)   |
|---------|---|---|---|
| 2008-09 |   | 1 (UKIERI)<br>1 (DEC)                     | `14.50 Lakhs (INR)<br>`40.00 lakhs (INR)  |
| 2009-10 |   | 1<br>1<br>1<br>1 (DEC)                    | `10.50 Lakhs (INR)<br>`15.00 Lakhs (INR)<br>`7.00 Lakhs (INR)<br>`15.00 lakhs (INR) |
| 2010-11 |   | 1<br>1 (DEC)                              | `45.00 Lakhs (INR)<br>`10.00 lakhs (INR)  |
| 2011-12 | No funding received                                 |   |   |
| 2012-13 | 01 (UGC UPE Phase – II)<br>01 ( UGC UPE Phase – II) |   | `50.00 Lakhs (INR)<br>`5.00 Lakhs (INR)   |
|         |   |   |   |

19. Research facility/centre run by the Dept./school/centre which has:

- state recognition – 02 State Fellow
- national recognition – 01 SRF from TEQIP Grant
- international recognition – Not Applicable

20. Publications: See Annexure for details

21. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):

- Dr. Ranjan Parekh acted as visiting faculty and external examiner for the course MS Science Communications, National Council of Science Museums (NCSM) for session 2012-2013.
- Professor Samar Bhattacharya delivered lecture on “Technology for e-Learning of music”, in a three-day invitational workshop entitled “Frontiers of Research on Speech and Music”, organized by ITC Sangeet Research Academy, Kolkata and Sir C. V. Raman Centre for Physics and Music, Jadavpur University, March 05-07, 2013.
- Prof. Samar Bhattacharya delivered lecture in the ninth Orientation Programme (OP-NBU-09) from March 20 - 29, 2012 organized by UGC Academic Staff College, University of North Bengal.
- Prof. Kalyankumar Datta attended the 38th Meeting of Planning Board of Indira Gandhi National Open University at Maidan Garhi, New Delhi, on April 28, 2011.
- Professor Tapan Kumar Ghoshal, Professor Siddhartha Datta, Professor Samar Bhattacharya, Dr. Satyaki Bhattacharya, Mr. Gaur Kishore Pattanayak and Professor Pramatha Nath Basu visited Brunel University, UK, in connection with UKEIRI project of the British Council in February, 2010. This was a scheduled programme of the UKIERI project. The problems of study materials and teachers’ participation from Brunel and official procedures of the project for better management were discussed with members of Brunel University.
- Prof. Pramatha Nath Basu visited Leicester University, UK, in February 2010, for exploring a possible collaborative programme between the two Universities. There was a detailed discussion on the possibilities. Both the Universities are currently looking into the opportunities for applying for grants. Academic exchanges between JU members and the members of Leicester University were very fruitful. JU members present were Professor Tapan Kumar Ghoshal, Professor Samar Bhattacharya and Professor P. N. Basu.
- Dr. Ranjan Parekh is engaged in collaborative research on “Use of Multimedia in Telemedicine” with School of Business, Montclair State University, NJ, USA.
- Prof. P. N. Basu delivered lecture in Seminar and Workshop on “Education Technology, content creation in Technology Enhanced Learning” - Orientation Programme UGC Academic Staff College, University of North Bengal, Siliguri - March 24<sup>th</sup> -26<sup>th</sup>, 2011.
- Dr. Ranjan Parekh acted as Invited lecture - UGC sponsored Refresher Course in Information and Communication Technology (ICT) organised by University of Burdwan - 1 day (Mar 2011).
- Dr. Ranjan Parekh acted as Visiting/Guest faculty in MS course in Science Communications, National Council of Science Museums for 15 days (Jan 2011).
- Shri Arunasish Acharya delivered lecture in National Council of Science Museums, Kolkata, in November, 2011 in the Faculty Development Programme.
- Shri Joydeep Mukherjee delivered lecture in National Council of Science Museums, Kolkata, on November 14, 2011 in the Faculty Development Programme.
- Sri Joydeep Mukherjee participated in the Faculty Development Program on Automation Testing and Latest Trends in Automation Testing at Cognizant, Kolkata from November 03 - 04, 2011.
- Prof. Samar Bhattacharya delivered lecture in Seminar and Workshop on “Education Technology, content creation in Technology Enhanced Learning”- Orientation Programme UGC Academic Staff College, NBU-University of North Bengal, Siliguri - December 19<sup>th</sup> - 21<sup>st</sup>, 2010.

- Sri Joydeep Mukherjee attended Workshop on “Quality Enhancement of Engineering Education through-NPTEL”-Centre for Educational Technology, IIT, Kharagpur.-July 21<sup>st</sup>-22<sup>nd</sup>, 2010
22. Faculty serving in
- a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)
- Prof. Samar Bhattacharya is acting as a member of Working Group of e-learning by Ministry of Communications and Information Technology, Department of Information Technology, Government of India.
  - Prof. Samar Bhattacharya is acting as a member of the ICT Advisory Committee organised by National Library.
  - Prof. Samar Bhattacharya is a member of Administrative committee Department of Film Studies, Jadavpur University.
  - Prof. Samar Bhattacharya has been designated as a member of the Academic Advisory Committee for “Bichitra”, a Jadavpur University project for a complete electronic variorum edition of Tagore’s works in Bengali and English.
  - Prof. Samar Bhattacharya acted as a member of the Advisory Committee of the Directorate of Open & Distance Learning (DODL), University of Kalyani.
  - Prof. Samar Bhattacharya is acting as a chairman of the committee for engagement of consultant for Electrical maintenance and renovation at DOEACC Society, Kolkata.
  - Prof. Samar Bhattacharya has been nominated as the coordinator of partner institution by IIT, Kharagpur for their Pedagogic Research Project, under the National Mission Project on Education through ICT.
  - Dr. Ranjan Parekh acted as member of selection committee at BITM in June 2011.
  - Prof. Kalyankumar Datta was a member of the General Council and governing body of Bankim Bhavan Gobeshana Kendra, Kanthalpare, Naihati by the department of Higher Education, Government of West Bengal.
  - Prof. Kalyankumar Datta is serving as member of advisory committee for phase-wise implementation of e-governance in Public Works (Roads) Directorate of Government of West Bengal.
  - Prof. Kalyankumar Datta is serving as member in the IT advisory committee of Netaji Subhash Open University, Kolkata.
  - Prof. Kalyankumar Datta has been nominated as member of the Standing Committee for selection of Information Technology Officer of Netaji Subhash Open University, Kolkata.
  - Prof. Kalyankumar Datta is serving as member of the committee to evaluate technical bids of digitization and microfilming of rare and old books and documents of National Library.
  - Prof. Kalyankumar Datta is serving as a member of the technical expert committee of KMC for e-governance.
  - Prof. Kalyankumar Datta is serving as a member of the Eastern regional HR forum of NASSCOM
  - President of India nominated Prof. Kalyankumar Datta to act as a member of the planning board of IGNOU for a term of 3 years w.e.f. June 30, 2008.
  - Prof. Kalyankumar Datta provided assistance for execution of Collaborative program Development strand of UKIERI awarded in 2008 for 2008-2011.
  - Prof. Kalyankumar Datta nominated by MHRD for acting as a member of the standing committee to assist the project approval board of National Mission for Education through ICT program of MHRD in March 2009.

- Prof. Kalyankumar Datta is serving as member of advisory committee for phase-wise implementation of e-governance in Public Works (Roads) Directorate of Government of West Bengal.
- Prof. Kalyankumar Datta is serving as member in the IT advisory committee of Netaji Subhash Open University, Kolkata.
- Prof. Kalyankumar Datta is serving as member of the committee to evaluate technical bids of digitization and microfilming of rare and old books and documents of National Library.

23. Student projects

- percentage of students who have done in-house projects including inter-departmental projects : 99%
- percentage of students doing projects in collaboration with other universities / industry / institute: 01%

24. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

- One day National Seminar on “New Paradigms in Open Learning“ followed by two day workshop on “e-content Generation with Open Source Tools” at Jadavpur University, March 10<sup>th</sup> – 12<sup>th</sup>, 2011
- One day National Seminar on “Technology Enhanced Learning-Problems and Prospects” and two day National Workshop on “e-Content Design for Technology Enhanced Learning” at School of Education Technology, Jadavpur University, June 24<sup>th</sup> – 26<sup>th</sup>, 2010
- One day National Seminar on “Technology Enhanced Learning” and two day National Workshop on “e-Content Design & Development” at School of Education Technology, Jadavpur University, July 23<sup>rd</sup> – 25<sup>th</sup>, 2009

25. Student profile programme-wise (in the Current Semester):

| Name of the Programme<br>(refer to question no. 4) | Applications<br>received | Admitted |        | Pass percentage (w.r.t. last<br>graduating batch) |        |
|--|--------------------------|----------|--------|---|--------|
|  |                          | Male     | Female | Male  | Female |
| M. Tech IT (Courseware<br>Engineering)             | 296                      | 10       | 08     | 72.5%   | 27.5%  |
| Master in Multimedia<br>Development                | 154                      | 08       | 17     | 54.5%   | 45.5%  |

26. Diversity of students

| Name of the<br>Programme<br>(refer to q. no. 4) | % of students<br>from the same<br>university | % of students from<br>other universities<br>within the State | % of students<br>from universities<br>outside the State | % of students<br>from other<br>countries |
|---|--|--|---|--|
| M. Tech IT<br>(Courseware<br>Engineering)       | 0%   | 100%   | 0%  | 0%                                       |
| Master in Multimedia<br>Development             | 0%   | 100%   | 0%  | 0%                                       |

27. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

✓ 13 Gate Students every year

28. Student progression

| Student progression    | Percentage against enrolled |
|------------------------|-----------------------------|
| UG to PG               |                             |
| PG to M.Phil.          |                             |
| PG to Ph.D.            | 05 - 06 %                   |
| Ph.D. to Post-Doctoral |                             |



| Student progression             | Percentage against enrolled |
|---------------------------------|-----------------------------|
| Employed                        | Around 75 %                 |
| • Campus selection              |                             |
| • Other than campus recruitment | Around 25%                  |
| Entrepreneurs                   | 01 – 02 %                   |

29. Diversity of staff

|  |     |
|--|-----|
| Percentage of faculty who are graduates  |     |
| of the same university                   | 50% |
| from other universities within the State | 50% |
| from universities from other States      |     |
| from universities outside the country    |     |

30. Present details of departmental infrastructural facilities :

|  |                          |
|--|--------------------------|
| Library  | Books: 1809; Manuals: 40 |
| Internet facilities for staff and students         | For all                  |
| Total number of class rooms                        | 03                       |
| Class rooms with ICT facility                      | 04                       |
| Students' laboratories                             | 05                       |
| Research laboratories                              | 03                       |
| Video conferencing room                            | 01                       |
| e-Class room with Audio & Video recording facility | 01                       |
| EDUSAT room  | 01                       |

31. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university : 07
- from other institutions/universities : 01

32. Number of post graduate students getting financial assistance from the university:

GATE scholarship 13 students per year

33. Does the department obtain feedback from

- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?  
Through fortnightly discussion and implement in the dissemination methodology
- students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?  
Through discussion and utilize the resource
- alumni and employers on the programmes offered and how does the department utilize the feedback?  
Through the revision of the curriculum and the syllabus

34. List the teaching methods adopted by the faculty for different programmes.

- ✓ ICT based
- ✓ Blended Learning
- ✓ Using Video conferencing Facility
- ✓ Learning Management System

35. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Through assignment and assessment

36. Highlight the participation of students and faculty in extension activities.

Through outreach programme

37. Briefly highlight contributions in generating new knowledge, basic or applied.

Multimodal blended mode learning activities. Most of the departments are utilizing the infrastructure of the School of Education Technology and are generating new forms of dissemination methodology of knowledge repository

38. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC)

*Strengths*

Strong base of Education Technology, Strong development team for ICT-based course,  
Excellent Resource Facility

*Weaknesses*

Manpower

*Opportunities*

International and National Collaboration

*Challenges*

Future plans of the school speak about the challenges

39. Future plans (in as much detail as possible):

- Strengthening of existing PG programmes.
- Introduction of short courses in different fields in Blended Learning, Multimedia and Web Technology
- Short term professional courses in emerging areas
- Research and development in the following thrust areas :
  - ✓ Teaching learning processes in face to face and Digital Distance Education
  - ✓ Quality Assurance for E-learning and Teaching learning process
  - ✓ Animation, Virtual Reality, Multimedia technologies and processes
  - ✓ Courseware Engineering processes
  - ✓ Content development methodologies and tools
  - ✓ Teaching-Learning Methodology
  - ✓ Educational Consortium, Web Services and Web Technology
  - ✓ Risk Management
  - ✓ Distributed Object Computing
  - ✓ Multimedia Databases and Content Based Retrieval
  - ✓ Mobile Multimedia Communication
  - ✓ Semantic Web

## School of Energy Studies

1. Name of the School: ENERGY STUDIES
2. Year of establishment: 1982
3. Faculty to which the School is attached: FISLM
4. Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.): M.Tech, PG Diploma & PhD
5. Interdisciplinary programmes being conducted and other departments involved: Mechanical, Electrical, and Power etc.
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: University of Surrey, Guildford, UK and Newcastle University, Newcastle, UK
7. Details of programmes discontinued, if any, with reasons: NA
8. Examination System: Semester
9. Participation of the department in courses offered by other departments: Mechanical, Electrical and Power
10. Number of teaching posts sanctioned, filled and actual:

| Designation         | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 1          | 1      | 1                            |
| Associate Professor | 2          | 2      | 2                            |
| Asst. Professor     | 2          | 2      | 2                            |
| Other               |            |        |                              |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name              | Qualification | Designation         | Specialization                          | Years of Experience | PhD students, 2008-12 |
|-------------------|---------------|---------------------|---|---------------------|-----------------------|
| 1. Biswajit Ghosh | D.Sc.(Engg.)  | Professor           | Advanced Materials & Solar Photovoltaic | 25                  | 14                    |
| 2. Subhasis Neogi | PhD (Engg.)   | Associate Professor | Wind Energy & Building Energy           | 25                  | 01                    |
| 3. Tushar Jash    | PhD           | Assistant Professor | Bio-Energy, Energy & Environment        | 11                  | 01                    |
| 4. Ratan Mondal   | M.Tech        | Assistant Professor | Power System Engineering                | 08                  |                       |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors, etc.: Prof. Stuart Irvine, University of Wales, UK Dr. Annika Lohstra, University of Surrey, UK, Prof. Philip Parrot, Rutherford-Appleton Laboratory, UK
13. Programme-wise Student Teacher Ratio: M.Tech: 3.25, PG Diploma: 4.0
14. Number of academic support staff (technical) and administrative staff:

| Designation                     | Sanctioned      | Filled | Deputed in the School |
|---------------------------------|-----------------|--------|-----------------------|
| Technical Assistant             | 1               | 0      | 0                     |
| Junior Assistant (Typist )      | 1               | 1      | 0                     |
| Librarian                       | 1               | 1      | 0                     |
| Other (Visiting Lab. Attendant) | 2 (Contractual) | 2      | 2                     |

15. Research thrust areas as recognized by major funding agencies:  
Advanced Materials  
Solar Photovoltaic energy

16. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

| Name of the Faculty Member | Project Title  | Funding Agency          | Grant Received  |
|----------------------------|--|-------------------------|---|
| Biswajit Ghosh             | 1. UK-India Network for II-VI Sensor Technology      | UKIERI, British Council | £56,201   |
|                            | 2. UKIERI Thematic Partnership Program               | -do-                    | £29,820   |
|                            | 3. UKIERI Trilateral Research in Partnership Program | -do-                    | £17,400   |
| Subhasis Neogi             |  | AICTE<br>DRDO<br>MNRE   | Rs. 13.00 Lakhs<br>Rs. 14.93 Lakhs<br>Rs. 42.16 Lakhs |
| Tushar Jash                |  | DST-PURSE               | A research student + research expenses                |

17. Inter-institutional collaborative projects and associated grants received

*International collaboration*

- University of Surrey in UK for developing high energy imaging devices under UKIERI funding
  - Newcastle University in UK and University of California at Los Angeles in USA under UKIERI Trilateral Research in Partnership (TRIP) Program for developing Graphene based sensing systems
18. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (Give details.):  
DST FIST: Rs. 20.00 Lakhs,  
DST PURSE: Research Fellow along with associated research expenses  
TEQIP: Research Fellow along with associated research expenses
19. Research facility/centre run by the school which has:
- state recognition: Solar Photovoltaic Division, Bio-Energy Division
  - national recognition: Regional Test Center for Solar Thermal Devices
  - international recognition: Advanced Materials & Photovoltaic Division  
Building Energy Lab

20. Publications:

| Data base                               | B. Ghosh                                      | S. Neogi | T. Jash | R. Mondal |
|---|---|----------|---------|-----------|
| Papers in peer reviewed journals        | 33  | 12       | 03      | -         |
| Monographs                              | 02  | -        | -       | -         |
| Chapters in Books                       | 02  | -        | 01      | -         |
| Edited Books                            | -   | -        | -       | -         |
| ISBN with details of publishers         | ISBN-81-902458-4-0,<br>ISBN-978-93-80261-78-2 | -        | -       | -         |
| Number listed in International Database | 59  | -        | 07      | -         |
| Citation Index – range / average        | 86/10   | -        | 24/6    | -         |
| Impact Factor – range / average         | 6-1   | 3.2      | 3.65    |           |
| h-index                                 | 10  | -        | -       |           |

21. Details of patents and income generated:

| Sl. No. | Patentee  | Patent No. | Patent Title                            |
|---------|---|------------|---|
| 1       | Prof. Biswajit Ghosh on behalf of Jadavpur University | 242622     | A Process for Gasification of Bio-Mass. |

|   |   |         |   |
|---|---|---------|---|
| 2 | -do-  | 254535  | A Method of Fabricating Electrical Contact.   |
| 3 | -do-  | 254397  | A Production of Defect Induced Electrical Contact with Anti-Diffusion Barrier and a Method Thereof. |
| 4 | -do- & ONGC   | 254840  | A Method for deposition of Anti-Corrosive Coating on Metallic and Non-Metallic Substrate Surface.   |
| 5 | Prof. Biswajit Ghosh on behalf of Jadavpur University | Pending | A Method for purification of Synthetic Gas and extraction of Bio-Diesel feedstock.                  |
| 6 | -do-  | -do-    | A Method for production of green filler for plastic items.  |
| 7 | -do-  | -do-    | A Method for production of Stable Super Black Coating   |
| 8 | -do-  | -do-    | A Method for production of Electrical Contact to the Solid Oxide Fuel Cells.                        |

22. Areas of consultancy and income generated: Solar Photovoltaic, Energy Efficiency in general & Building Energy in particular, services rendered using FIST funded equipment, testing of solar thermal devices
23. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):

| Name of the Faculty | Institute visited                             | Country  | Length of visit |
|---------------------|---|----------|-----------------|
| Biswajit Ghosh      | 1. Cavendish Laboratory, Cambridge University | UK       | Two weeks       |
|                     | 2. Imperial College London                    | UK       | Two Weeks       |
|                     | 3. University of Surrey, Guildford            | UK       | Eight Weeks     |
|                     | 4. Newcastle University, Newcastle            | UK       | Twelve Weeks    |
|                     | 5. University of Picardie at Lille            | France   | Two Weeks       |
|                     | 6. Ecole Polytechnique, Paris                 | -do-     | One Week        |
|                     | 7. National University of Malaysia            | Malaysia | One Week        |
| Subhasis Neogi      | University of Ulster                          | UK       | Six Months      |

24. Faculty serving in  
a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.): UPSC, Reviewers of many referred international journals, Bureau of Energy Efficiency, DST, MNRE, EUPVSEC, UNIDO etc.
25. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted: National Workshop on Solar Energy: From Technology to energy Solution, 2007-2013,
26. Student projects
- percentage of students who have done in-house projects including inter-departmental projects: 10%
  - percentage of students doing projects in collaboration with other universities / industry / institute: 5%
27. Awards / recognitions received at the national and international level by
- Faculty : Best Poster award in 2009 EUPVSEC, Nominated for 2013 Edmond Becquerel Prize of EU, Commonwealth Fellowship, Session Chairman in EUPVSEC 2009-2013
  - Doctoral / post doctoral fellows
  - Students (Give details)

28. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features): National Workshop of Solar Energy Since 2008-2013; funding agency: CSIR, MNRE, Govt. of W.B.
29. Code of ethics for research followed by the department: As per university norms
30. Student profile programme-wise (in the Current Semester):

| Name of the Programme<br>(refer to question no. 4) | Applications<br>received | Admitted |        | Pass percentage (w.r.t. last<br>graduating batch) |        |
|--|--------------------------|----------|--------|---|--------|
|  |                          | Male     | Female | Male  | Female |
| M.Tech. in Energy Sc. & Tech                       | 288                      | 12       | 0      | NA  |        |

31. Diversity of students

| Name of the Programme<br>(refer to q. no. 4) | % of students<br>from the same<br>university | % of students from<br>other universities<br>within the State | % of students<br>from universities<br>outside the State | % of students<br>from other<br>countries |
|--|--|--|---|--|
| M.Tech. in Energy Sc. & Tech.                | 1-2%   | 90-96%   | 8-9%  | 0%                                       |

32. Student progression

| Student progression             | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG                        | NA                          |
| PG to M.Phil.                   | NA                          |
| PG to Ph.D.                     | 5-6%                        |
| Ph.D. to Post-Doctoral          | 1-2%                        |
| Employed                        |                             |
| • Campus selection              | 1-2%                        |
| • Other than campus recruitment | 98-96%                      |
| Entrepreneurs                   | 2-3%                        |

33. Diversity of staff

|  |     |
|--|-----|
| Percentage of faculty who are graduates  |     |
| of the same university                   | 20% |
| from other universities within the State | 40% |
| from universities from other States      | 20% |
| from universities outside the country    | 0%  |

34. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period (2008 – 2013): One, D.Sc. (Engg.) in 2008
35. Present details of departmental infrastructural facilities with regard to
- Library: Available
  - Internet facilities for staff and students: Available
  - Total number of class rooms: 3
  - Class rooms with ICT facility: 1
  - Students' laboratories: 7
  - Research laboratories: 4
36. List of doctoral, post-doctoral students and Research Associates
- from the host institution/university: Four
  - from other institutions/universities: Nil
37. Number of post graduate students getting financial assistance from the university. (Give details.) 10 GATE students
38. List the distinguished alumni of the department (maximum 10)
- Prof. Tapas Mallick, University of Exeter, UK
  - Prof. R.S. Aithal, Joint director, MIT, Manipal.
  - Dr. Subarna Maity, Scientist, Central Marine and Salt Chemical Research Institute, Bhavnagar
  - Dr. Pushan Banerjee, Assistant Professor Vidyasagar College, Kolkata
  - Dr. Suman De, Senior Engineer, Tata Engineering Services, Bangalore
  - Dr. Subhadeep Bhattacharyya, Associate Professor, NIT, Agartola

7. Dr. J.B.M. Krishna, Scientist, UGC-DAE Consortium, Kolkata
8. Dr. P.C. Ghosh, Associate Professor IIT, Mumbai
9. Mr. M. K. Choudhuty, Project Director, Assam Renewable Energy Development Agency
10. Dr. Arup Chatterjee, Entrepreneur and Coating Specialists
39. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.
  1. Shri Syamal Gupta, Chairman, Tata International Ltd.
  2. Prof. Paul Sellin, University of Surrey, UK
40. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Feedback from the students and from their performances in the workplace.
41. Briefly highlight the contributions in generating new knowledge, basic or applied. Set up many renewable energy power plants for developing, education, entrepreneurship activities, productive and effective economic activities.
42. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC)
 

*Strengths*

  - i. World renowned faculty, ii. International Collaborations, iii. Outreach Activities, iv. Liaison with Industries, v. Available Infrastructure.

*Weaknesses*

  - i. Lack of dedicated support staff, ii. Proper funding from the Govt., iii. Non availability of quality students, iv. Lacking in placement, v. Dearth of quality researchers.

*Opportunities and Challenges*

New and Renewable Energy technologies are the priority for the coming day. As results industries, Govt. organization, financial Institutions are integrating themselves for developing business in this sector. This needs human resource to this subject. The program that is running here will fulfill the requirement need for providing manpower in this field. Studies on this subject will open up new avenues to this end. This is the opportunity of the present program.

To develop this sector, institute will face lots of challenges interns of placement of the products those will take the degree from this School. To overcome this problem challenges in search for outreach activities, venturing in supply market is essential for employment generation.
43. Future plans of the department (in as much detail as possible):
 

Outreach activities for employment generation,  
 Post-Graduate Diploma programme in Energy Management & Audit  
 Post Graduate / M.Phil Programme in Solar Power Engineering.

## School of Studies in Environmental Radiation and Archaeological Sciences

1. Name of the School: STUDIES IN ENVIRONMENTAL RADIATION AND ARCHAEOLOGICAL SCIENCES
2. Faculty to which the School is attached: ISLM
3. Names of programmes offered: Ph.D
4. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name           | Qualification | Designation         | Specialization   | Years of Experience | PhD/MPhil students, last 4 years |
|----------------|---------------|---------------------|--|---------------------|----------------------------------|
| Argha Deb      | M.Sc., Ph.D   | Professor           | Experimental Nuclear & High Energy Physics   | 18                  | Ph.D.: 6                         |
| Nupur Dasgupta | M.A. Ph. D    | Professor           | 1. Ancient Indian History and Archaeology.<br>2. History of Science, Technology and Medicine | 22                  | Ph.D.: 01<br>M.Phil.: 07         |
| Sanjoy Kumar   | M.Sc., Ph.D   | Assistant Professor | 1. Use of nuclear techniques in solid state physics<br>2. Electronics                        | 10                  | Ph.D.: 04                        |

5. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors, etc.:

Emeritus Professors: Prof. Dipak Ghosh

6. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

*Prof. Argha Deb, 3 projects*

| Project Title   | Funding Agency                      | Grant (Rs. Lakhs) |
|---|-------------------------------------|-------------------|
| 1. Study of alpha radioactivity in drinking water and soil in arsenic prone areas of West Bengal and development of radioactive map | West Bengal Pollution Control Board | 5.5               |
| 2. Assessment of Radon, Thoron and other Radionuclides Underground and Around Coal Mine Areas of West Bengal                        | West Bengal Pollution Control Board | 10                |
| 3. Real Time Radon Monitoring for Seismic Surveillance  | UGC (UPE Scheme)                    | 15                |

7. Publications: See Annexure
8. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):  
National Seminar on “Situating the History of Science in India” organized jointly with Dept of History, JU, March 2009.
9. Present details of departmental infrastructural facilities with regard to
  - a) Library : 75 books
  - b) Internet facilities for staff and students: Internet facility is available
  - c) Total number of class rooms: Nil
  - d) Class rooms with ICT facility: Nil
  - e) Students’ laboratories: Nil
  - f) Research laboratories: One



10. List of doctoral, post-doctoral students and Research Associates
  - a) from the host institution/university  
One: Alpa Kar
  - b) from other institutions/universities
11. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
  - For the last few years we are actively engaged in time integrated measurement of soil radon in both active and non-active tectonic zone of West Bengal using solid state nuclear track detector. Our study reveals hint of correlation between anomalous fluctuation of soil radon concentration and occurrence of earthquake. The results have been published in journals of international repute and strengthen the hope of identifying a positive precursory signal of earthquake.
  - Radioactive pollution in the environment is most fatal to human health. Globally assessment of environmental radioactivity is treated with utmost seriousness. But the scenario is not so hopeful in our country. Awareness level of the common people as well as the govt. has to be raised considerable. Under such situation we have given much effort in measuring radioactivity in different natural samples. We have concentrated on alpha activity as it is most harmful for human health. Our investigations have revealed the following notable aspects
    - i) Most of the ground water samples of arsenic prone areas of West Bengal also have elevated level of alpha activity. Radioactive map of ground water samples of these areas have been developed.
    - ii) Even smokeless tobacco products may be dangerous from health point of view as they contain alpha radioactivity. It is found that alpha activity in “khaini” is most alarming.
    - iii) Few commonly used brands of lipstick, vermilion and toothpaste have considerable amount of alpha activity.
    - iv) Most of the building materials like cement, sand, ceramic tiles, marble etc manifest alpha radioactivity. We should be aware of the situation before using these materials, especially ceramic & cement tiles, granite etc. in our houses where we spend most of our time.
    - v) Many phosphate fertilizers are observed to be highly alpha active. This demands proper guidelines for using chemical fertilizer, otherwise, our food chain will be contaminated with radioactivity.
12. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC):
 

*Strengths*

  - Research Motivation
  - Availability of expertise in different fields for pursuing interdisciplinary research
  - Non-bureaucratic way of functioning
  - Administrative support

*Weaknesses*

  - Shortage of manpower
  - Shortage of space
  - Lack of fund

*Opportunities and Challenges*

Radioactive pollution of the environment and its adverse effect on human health has become a cause of serious concern all over the globe. Water we drink, food we eat, air we inhale (and what not!) may contain radioactive materials. For proper remedial measures to be taken it is essential first to know the existence of different radioisotopes in natural substances and then to estimate the harm they could cause to human health. There is real scarcity of this

kind of investigations in our country and especially in West Bengal. So there is enough scope and also need for development of this school as a specialized centre for assessment of environmental radioactive pollution.

Prediction of earthquake is a major challenge to the scientists nowadays. The problem demands a multidisciplinary approach. Our school has the potential to take a leading role in this regard by investigating soil radon concentration fluctuation using nonlinear techniques.

13. Future plans of the department (in as much detail as possible):

- *Setting up of a fully equipped soil radon measurement laboratory for seismic surveillance*

All of us are aware and worried about the devastating nature of the strong earthquakes which are basically large scale fracture phenomena. For enabling people to minimise loss of life and property it is necessary to predict a potentially damaging earthquake. Over the last few decades enormous activity has been generated all over the world for finding a positive precursory signal of an earthquake. Different signals like water level in wells, changes in electrical resistivity of rocks, strange animal behaviour, occurrence of unusual radio waves etc are being investigated.

Noble laureate Physicist Prof G. Charpak advocated that anomalous fluctuation of radon concentration (from soil or well water) could be the most effective and reliable way for predicting an earth quake. But the correlation between radon fluctuation and earth quake is not straight forward. The situation is complicated by the fact that due to atmospheric changes the concentration of radon changes significantly and shows anomalous fluctuation in concentration. Still physicists are in search of a technique which will enable them to identify the radon fluctuation associated with earthquake only filtering out the spurious fluctuation due to other causes.

Under this global scenario we would like to set up a soil radon measurement laboratory to undertake the following work:

1. Generation of soil radon time series data along with the information of variation of relevant meteorological parameters during the period of study at more than one locations simultaneously. The laboratory should be capable of measuring
    - Time integrated soil radon concentration data (using SSNTD)
    - Continuous soil radon concentration data (using Alpha-GUARD/Rad-7)
  2. To apply sophisticated non-linear techniques on the data with the hope of identifying a reliable precursory signal of earth quake.
- *Development of radio-isotope identification facility*

So far we were measuring only overall alpha radioactivity. But for more specific information and proper estimation of dose delivered by natural samples, it is necessary to identify the radio-isotopes which are present in the sample. This will enable one to correctly assess the effect on human health. We have a plan to set up a radio-isotope identification facility based on gamma spectrometry.
  - *To conduct short-term courses for awareness generation*

Knowledge regarding environmental radioactivity should not only be generated and accumulated but also be disseminated to govt. authorities and common people. If awareness courses are conducted, common people will be directly benefitted from it and it also help the govt. to assess the situation and to take step, if necessary.

## School of Environmental Studies

1. Name of the School: ENVIRONMENTAL STUDIES
2. Year of establishment: 1988
3. Faculty to which the School is attached: FISLM
4. Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.): MTech (Environmental Biotechnology), PhD (Engg.) and PhD (Science)
5. Examination System: Annual/Semester/Trimester/Choice Based Credit System: Semester
6. Number of teaching posts sanctioned, filled and actual:

|                     | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 1          | 0      | 0                            |
| Associate Professor | 2          | 1      | 1                            |
| Asst. Professor     | 1          | 0      | 0                            |
| Other               |            |        |                              |

### 7. Faculty profile

| Name                 | Qualification | Designation                        | Specialization              | Years of Experience | PhD students, last 4 years |
|----------------------|---------------|------------------------------------|-----------------------------|---------------------|----------------------------|
| Utpal Kumar De       | D. SC.        | Professor, retired 2012            | Atmospheric Physics         | 40                  | 5                          |
| Dipankar Chakrabarti | PH.D.         | Professor, extension till 31.10.13 | Arsenic Chemistry           | 40                  | 5                          |
| Joydeep Mukherjee    | PH. D         | Associate Professor                | Environmental Biotechnology | 13                  | 3                          |

8. Percentage of classes taken by temporary faculty – programme-wise information: 90%
9. Programme-wise Student Teacher Ratio: 8:1
10. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual: 1 (technical), 2 (admin)
11. Research thrust areas as recognized by major funding agencies: Atmospheric Physics, Arsenic Chemistry and Toxicity, Environmental Biotechnology
12. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

Major research projects:

*Dr. Joydeep Mukherjee*

1. Establishing the Ultra Low Speed Rotating Disk Bioreactor as a Niche Mimic Reactor for Cultivation of Biofilm Forming Marine/Estuarine Microorganisms

Sponsored by: Department of Biotechnology, GoI; Grant: Rs. 35.00 Lakhs

Duration: 2009-2012

2. Utilization of vinasse for the production of polyhydroxyalkanoates

Sponsored by: Department of Biotechnology, Government of West Bengal;

Grant: Rs. 13.00 Lakhs; Duration: 2011-2014

*Dr. Dipankar Chakrabarti*

1. Arsenic monitoring and management in North-Eastern states

Sponsored by: Hamdard Research Foundation; Grant: Rs. 50 Lakhs

Duration: 2008-2013

2. Nano particles to remove arsenic from groundwater

Sponsored by: TATA, Jamshedpur

Duration: 2010-2012

13. Research facility/centre run by the Dept./school/centre which has:
  - state recognition: Arsenic Testing Facility (Dr. Dipankar Chakrabarti)
  - national recognition: Arsenic Testing Facility
  - international recognition: Arsenic Testing Facility
14. Publications (2008-2013):
  - \* Number of papers published in peer reviewed journals (national / international) 69
  - \* Monographs NIL
  - \* Chapters in Books 6
  - \* Edited Books NIL
  - \* Books with ISBN with details of publishers NOT APPLICABLE
  - \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) 69 in SCOPUS
  - \* Citation Index – range / average  
TOTAL CITATIONS OF THE SCHOOL (2008-2013)=271
  - \* SNIP 2.3 to 0.5
  - \* SJR 0.440 to 2.672
  - \* Impact Factor – range / average 1.00 TO 4.00
  - \* h-index FOR THE SCHOOL AS IN SCOPUS (2008-2013)=8
15. Details of patents and income generated:  
Sarkar S, Roy D, Mukherjee J. 2012. Novel enhanced surface area conico-cylindrical flask (ES-CCF) for biofilm cultivation. US Patent Application US2012/0295293A1.
16. Areas of consultancy and income generated: Arsenic analysis (about 1 crore)
17. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):  
Dr. Joydeep Mukherjee in the Australian Institute of Marine Science, DBT fellowship
18. Faculty serving in
  - a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)
 Dr. Dipankar Chakrabarti, editorial board of Environmental Science and Technology (ACS)  
 Dr. Joydeep Mukherjee, editorial board of Ulmanns Encyclopedia of Industrial Chemistry (Wiley)
19. Student projects
  - percentage of students who have done in-house projects including inter-departmental projects: 80%
  - percentage of students doing projects in collaboration with other universities / industry / institute: 20%
20. Awards / recognitions received at the national and international level by
  - Faculty  
 Dr. Dipanakar Chakrabarti received award from Indian Chamber of Commerce for recognition of arsenic research (2011)  
 Dr. Joydeep Mukherjee selected as Associate Professor under the nation-wide Faculty Recharge Programme of UGC
  - Doctoral / post doctoral fellows  
 Riddhi Mahansaria and Jayanta Debabrata Choudhury qualified UGC NET in Environmental Studies (only 5-6 students are selected all over India in Environmental Science)

- Students (Give details) NONE

21. Student profile programme-wise (in the Current Semester):

| Name of the Programme<br>(refer to question no. 4)  | Applications<br>received | Admitted<br>Male Female | Pass percentage (w.r.t. last<br>graduating batch)<br>Male Female |
|---|--------------------------|-------------------------|--|
| M Tech Environmental<br>Biotechnology (Sess. 12-13) | 100                      | 1 7                     | 100% 85%   |
| M Tech Environmental<br>Biotechnology (Sess. 12-13) | 75                       | Not available           | Not available  |
| Ph D  | 50 (approx)              | 3 4                     | Not applicable   |

22. Diversity of students

| Name of the<br>Programme<br>(refer to q. no. 4) | % of students<br>from the same<br>university | % of students from<br>other universities<br>within the State | % of students<br>from universities<br>outside the State | % of students<br>from other<br>countries |
|---|--|--|---|--|
| M. Tech.<br>(Environmental<br>Biotechnology)    | Nil  | 70%  | 30%   | Nil                                      |
| Ph D  | 55%  | 30%  | 15%   | Nil                                      |

23. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.  
GATE=3, NET=3

24. Student progression

| Student progression             | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG                        | Not applicable              |
| PG to M.Phil.                   | Not applicable              |
| PG to Ph.D.                     | 20%                         |
| Ph.D. to Post-Doctoral          | Nil                         |
| Employed                        |                             |
| • Campus selection              | 40% (IT companies)          |
| • Other than campus recruitment | 30% (Ph.D. in IITs)         |
| Entrepreneurs                   | Nil                         |

25. Diversity of staff

|  |   |
|--|---|
| Percentage of faculty who are graduates  |   |
| of the same university                   | 1 |
| from other universities within the State | 1 |
| from universities from other States      | 1 |
| from universities outside the country    |   |

26. Present details of departmental infrastructural facilities with regard to

- Library: No proper library, books kept in office room
- Internet facilities for staff and students: Yes, everyone has access
- Total number of classrooms: 2
- Classrooms with ICT facility: All class rooms have Internet connection
- Students' laboratories: 4
- Research laboratories: 4

27. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university  
Doctoral: Malancha Roy, Anirban Bhattacharyya, Sayani Mitra
- from other institutions/universities  
Doctoral: Kaushik Biswas, Jayanta Debabrata Choudhury, Riddhi Mahansaria, Srabanti Ballav

28. Number of post graduate students getting financial assistance from the university. (Give details.)

Abhishek Dutta, Jayita Chopra, Mousumi Chakraborty

29. Was any need assessment exercise undertaken before the development of new

programme(s)? If so, highlight the methodology.

Before the start of the m. Tech. (Biotechnology) programme detailed discussions were held in the academic committee of the School. Opinion was sought from senior scientists of the Pollution Control Boards, Director, National Environmental Engineering Research Institute. Curricula of national and foreign universities were consulted.

30. Does the department obtain feedback from  
faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes, for proposal on syllabus revision.  
students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes, for proposal on syllabus revision.  
alumni and employers on the programmes offered and how does the department utilize the feedback? No
31. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.  
Arrangements are made for students to attend seminars/workshops/special lectures outside the University.
32. List the teaching methods adopted by the faculty for different programmes.  
Lecturing  
Practical classes  
Field demonstrations
33. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?  
Discussions with faculty members and students. Discussions with poorly performing students and their parents. Regular weekly group meetings with doctoral students.
34. Highlight the participation of students and faculty in extension activities.  
PG and doctoral Students are actively participating in the extension of the research results of the project on conversion of rural slaughterhouse waste to organic fertilizer.
35. Give details of “beyond syllabus scholarly activities” of the department.  
Celebration of World Environment Day (5 June)  
PG students participate in environmental awareness programmes such assessment of campus biodiversity, prevention of pollution of the Ganges
36. Briefly highlight contributions in generating new knowledge, basic or applied.  
Arsenic toxicity and management in West Bengal and Bangladesh (Dr. Dipankar Chakrabarti)  
Generation of prediction models for norwesters and Monsoon (Prof. Utpal Kumar de)  
Microbial diversity of Sundarbans (Dr. Joydeep Mukherjee)
37. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.  
Strong teaching and research programmes  
No faculty recruitment, no space for expansion  
Environmental studies is an emerging area  
Deliver high quality teaching and research at par with international standards
38. Future plans of the department (in as much detail as possible):  
Immediate faculty recruitment  
Request for additional space  
Further arsenic research  
Open up new area of research: Climate change  
Open new teaching programme: M. Sc. (Environmental Analytical Chemistry)

## School of Illumination Science, Engineering & Design

1. Name of the School: ILLUMINATION SCIENCE, ENGINEERING & DESIGN
2. Year of establishment: 2000
3. Faculty to which the Department/School/Centre is attached: FISLM
4. Names of programmes offered: PG, PhD
5. Interdisciplinary programmes being conducted and other departments involved:

### *Courses:*

- a) Six months certificate course on “Advanced Wireman Course – Wiring, Lighting & Electrical Safety” per year; jointly with SISED & EE Dept, JU, Kolkata Police & WBMDFC.
  - b) Three months course on “Fire, Electrical Safety & Disaster Management” per year jointly with SISED & EE Dept, JU, Kolkata Police & Fire Service, West Bengal.
  - c) Course on “Fundamentals on Elevators” jointly with SISED & EE Dept, JU.
  - d) Course on “Energy Efficient Lighting Design” jointly with SISED & EE Dept, JU
  - e) A Short course on “Basic Electrical Engineering & Illumination for Electricians”, jointly organized with SES, Germany.
  - f) A short course on “Fundamentals of Safety” jointly organized with SVCTMD, J.U.
  - g) A course on “Lighting on Heritage Structure” jointly organized with DRONAH, Gurgaon
6. Examination System: Annual/Semester/Trimester/Choice Based Credit System: Semester
  7. Participation of the department in courses offered by other departments: E.E. students use the equipments/instruments of SISED while doing laboratory work.
  8. Number of teaching posts sanctioned, filled and actual:

|                     | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           |            |        |                              |
| Associate Professor |            |        |                              |
| Asst. Professor     | 02         | 0      | 0                            |

9. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:

| Designation          | from other departments of JU  | from other Institutes   | From Industry   |
|----------------------|---|---|---|
| Professor            | 02 - Saswati Mazumdar, Biswanath Roy (E.E. Dept)                                      |   |   |
| Associate Professor  | 01 - Suchandra Bardhan (Architecture Dept)  |   |   |
| Asst. Professor      | 04 - Suddhasatwa Chakraborty, Susanta Ray, Arindam Kumar Sil, Sovan Dalai (E.E. Dept) | 08 - Dipayan Nath, Animesh Bhattacharya, Atanu Chakraborty, Partha Sarathi Satvaya, Debadyuti Banerjee (WBUT), Mousam Ghosh (NIT), etc. |   |
| Emeritus Scientist   | Radha Ballav Debnath (School of Laser Science)  |   |   |
| Contractual Lecturer | 01 – Kamalika Ghosh (E.E. Dept)   |   |   |
| Other                |   |   | 04 - Sudeshna Mukhopadhyay (Philips), Sirshendu Pal (G.E. Lighting), Chiranan Kumar (Bajaj), Sumeru Roychowdhury (Ex-Chief Architect, Govt. of India), Mainak Ghosh |

10. Percentage of classes taken by temporary faculty – programme-wise information

| M.Tech Year routine  | Percentage of classes taken by temporary faculty |
|----------------------|--|
| 1 <sup>st</sup> Year | 100% - as there is no permanent faculty in SISED |
| 2 <sup>nd</sup> Year |  |
| 3 <sup>rd</sup> Year |  |

11. Programme-wise Student Teacher Ratio: For M.Tech Course: Total Students  $3 \times 18 = 54$   
No permanent teachers have been appointed, around 20 visiting teachers serve the M.Tech course per semester wise. In two running Certificate Courses students strength  $57+71=128$ . No permanent teachers have been appointed, around 35 visiting teachers serve the courses.

12. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual:

|                      | Sanctioned | Filled | Actual |
|----------------------|------------|--------|--------|
| Sr Technician        | 0          | 0      | 0      |
| Jr Technician        | 0          | 0      | 0      |
| Helper               | 0          | 0      | 0      |
| Peon                 | 0          | 0      | 0      |
| Laboratory Attendant |            | 1      |        |

Note: Two Sr. Technicians, One Sr. Mechnic and one Helper act as visiting staff.

13. Research thrust areas as recognized by major funding agencies:

- “New Road lighting Design Approach for Developing Countries” funded by ISLE, P.I. Suddhasatwa Chakraborty, Rs. 76,146/-
- “Deployment of Pedal Charged Battery Powered Cost effective rural Lighting system in a non electrified village of Sundarban Area for improvement of the parameters of Human Development Index” funded Rs 3,80,000/- by JU TEQIP STC Activity , jointly with NGO JGVK Fund 1,20,000/-, P.I. Dr. Saswati Mazumder
- Re-design of lighting system for improvement of ILLUMINATION of SELECTIVE INTERIORS of Victoria Memorial Hall Building Rs. 3,50,000/-, P.I. Dr.Saswati Mazumder
- Study and formulating standards and lux levels as per road parameters in all roads under Kolkata Municipal Corporation Jurisdiction Rs. 56,180/- , P.I. Dr.Saswati Mazumder
- “Distribution of Solar Powered Retrofit CFL System to Non-electrified Areas” funded by UGC XI th Plan Outreach Research Work , Rs. 1,00,000/-, P.I. Dr.Saswati Mazumder

14. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise :

| Coordinator/<br>PI        | Title of the<br>Project   | Funding<br>Agency                           | Sanction Date, Amount,<br>other particulars |
|---------------------------|---|---|---|
| Prof. Saswati<br>Mazumdar | 1.Re-design of lighting system for improvement of illumination of selected interiors of VMH building including Calcutta Gallery, Central Hall | Victoria Memorial<br>Hall<br>Kolkata        | Rs. 3,50,000/- + Tax                        |
|                           | 2.“Studies and Formulating Standards of Lux Level as per Road Parameter in All Roads under KMC jurisdiction”                                  | Kolkata Municipal<br>Corporation<br>Limited | Rs. 56,180/-                                |
|                           | 3.“Distribution of Solar Powered Retrofit CFL System to Non-electrified Areas”  | UGC XI th Plan<br>Outreach Research<br>Work | Rs. 1,00,000/-                              |



|                         |  |  |                                   |
|-------------------------|--|--|-----------------------------------|
|                         | 4. Deployment of Lighting System in Sundarban Area               | TEQIP, Jadavpur University jointly with NGO JGVK | Rs. 3,80,000/- and Rs. 1,20,000/- |
| Suddhasatwa Chakraborty | 1. "New Road Lighting Design Approach for Developing Countries"  | Indian Society of Lighting Engineers (ISLE)      | Rs 76,146/-                       |
|                         | 2. "Development of an Experimental Model of a Smart Grid System" | DST PURSE  | Rs 52,50,000/-                    |

15. Inter-institutional collaborative projects and associated grants received :

National collaboration: Victoria Memorial Hall; Kolkata Municipal Corporation;

16. Special research laboratories sponsored by / created by industry or corporate bodies:

Manick Sorcar Laser Animation by Sorcar Engineering Inc., USA and group.

17. Publications: See Annexure for details

\* Number of papers published in peer reviewed journals (national / international) :

International: 3; National: 4

18. Areas of consultancy and income generated:

| <i>Measurement of lamp ballast parameter/Testing of Luminaire Photometry and ballast performance of</i> | Amount (INR) |
|---|--------------|
| Philips Electronic India Ltd.   | Rs.67,283/-  |
| B.P. Project Pvt. Ltd.  | Rs. 98,167/- |
| Riddhi Electric   | Rs. 3,371/-  |
| Roshni Electricals Mfg. Co.   | Rs. 61,962/- |
| Sarja Electrical & Engineering Service Pvt. Ltd., Nagpur  | Rs. 22,060/- |
| Deepsun Industrial Corporation  | Rs.33, 090/- |
| United Engineering Syndicate  | Rs. 13,500/- |
| Spaceage Switch Gears Ltd.  | Rs. 55,150/- |
| Marc Eco Lighting   | Rs. 28,000/- |
| Hi-tech Luminaires  | Rs.5,515/-   |
| Techno Fliers Enterprise  | Rs. 11,236/- |
| Glacier Engineering   | Rs. 44,944/- |
| Jayanta Lamp Industries   | Rs. 13,483/- |
| Tekstar Enterprises   | Rs. 13,236/- |
| ENGEL Industries  | Rs. 11,742/- |

| <i>Consultancy</i>   | Amount (INR) |
|--|--------------|
| Survey & Redesign of Lighting System of Coal Conveyor Belt Tunnels of Conveyor 1C/1D of Budge Budge Generating Station of CESC Limited including 1. Staircase, 2. Conveyor Belt, 3. Pathway besides Conveyor Belt. | Rs. 38,650/- |
| Redesign of Lighting System of Office and Workshop of Bridge & Roof Co. including 1. Conference room, 2. Drawing room, 3. Mid-bay Workshop.  | Rs. 16,545/- |
| Specification of the components, Circuit Diagram, Source of components of the Electronic Ballast of Retrofit CFL of Jayanta Lamp Industries Pvt. Ltd.  | Rs. 15,000/- |
| Consultancy on outdoor lighting theory and e- learning with lighting software demonstration of Utkarsh Tubes & Pipes Ltd.  | Rs. 15,000/- |
| Designing of the lighting system of a Garments show room for Hi – Tech Luminaires  | Rs. 3,371/-  |
| Lighting System Design of DOEACC, including Conference room, Digital multimedia Lab, Classroom, Corridor (First Floor)   | Rs. 16,854/- |
| Lighting System Design of reception Area and ground floor to first floor staircase area of DOEACC  | Rs. 10,000/- |

19. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other:

|                        |  |
|------------------------|--|
| Prof. Saswati Mazumdar | Member of BIS<br>Member of UGC & AICTE College visit committee |
| Prof. Biswanath Roy    | Member of BIS  |

20. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted:

**Special Lecture series from Industries for students & faculties funded by TEQIP**

| Date     | Speaker                   | Industry/<br>Organization         | Topic  |
|----------|---------------------------|-----------------------------------|--|
| 25.8.12  | Mr. Sirshendu Pal         | GE Lighting                       | Current practice & Future trends of Industrial Lighting                                    |
| 25.8.12  | Mr. B. Rohatgi            | Binay Optoelectronics             | Optimizing LED lighting for Greater Energy savings   |
| 8.9.12   | Ms. Sudeshna Mukhopadhyay | Philips Lighting University       | Trends in Architectural Lighting   |
| 8.9.12   | Mr. R. P. Savita          | Victoria Memorial Hall            | Museum Lighting  |
| 21.9.12  | Mr. Vikas Rana            | Philips Electronics India Limited | Lighting Software – DIALux (Interior)  |
| 7.11.12  | Mr. Manick Sorcar         | Sorcar Engg. Inc. USA             | Laser Animation –Part - I  |
| 8.11.12  | Mr. Kaniska Sen           | Standard Robotics, Kolkata        | Stage Lighting   |
| 21.11.12 | Mr. Manick Sorcar         | Sorcar Engg. Inc. USA             | Laser Animation –Part – II   |
| 22.11.12 | Mr. Manick Sorcar         | Sorcar Engg. Inc. USA             | Laser Animation –Part – III  |
| 24.11.12 | Mr. Soumyadipta Guin      | Verb Films, Kolkata               | Motion Picture Lighting Technique  |
| 26.11.12 | Mr. Kalyan Chakraborty    | KC & Associates, Kolkata          | Creative approach to lighting design in different activity areas                           |
| 30.11.12 | Mr. Dipankar Banerjee     | Indcon, Kolkata                   | System Design & Engineering, Planning and Presentation of Internal Electrification Project |
| 24.06.13 | Mr.S.Chakraborty          | Bajaj Electricals Ltd.            | Accelerating LED revolution  |

- A whole day long Industry Institute Interactive program was held on 22/12/2012. In the newly renovated lecture room “K.C.Roy Hall” of E.E. Department funded by TEQIP. The program was coordinated by Sri Suddhasatwa Chakraborty.
- A technical Seminar was arranged on 28<sup>th</sup> July, 2011. The topic was “Application of New Illumination Technology with LEDs” lectured by Mr. Rainer Heidkamp, Germany.
- The Seminars on “Renewable Energy based System” & “Promotion Of Solar Home Lighting System – Technology and Policy” by the world famous scientist Prof. (Dr.) Saifur Rahman, Director, Advanced Research Institute, Virginia Tech, USA on 30/04/2009 at Triguna Sen Memorial Hall, Jadavpur University jointly organized by SISED, ISLE, IEEE-Power Engineering Chapter.
- A half day workshop was organized on “Building Energy Simulation Awareness” on 14<sup>th</sup> June, 2008 under ECO-III Project (Energy Conservation & Commercialization – Phase-III supported by US Department of Energy).
- A Seminar was organized on “Energy Conservation with special reference to Building Lighting System”; Speakers - Mr. S.K. Ganguly, Mr. S. Das on 5<sup>th</sup> July 2008 jointly with Indian Society of Lighting Engineers (ISLE).
- A two day program with a seminar on “Laser Technology and its Applications” and “Laser- Live-Animation Extravaganza” by Manick Sorcar CEO-President, Sorcar Engineering Inc., USA and group was conducted in March, 2011.
- ECO – III’s Educational Curriculum Enhancement Program on “Building Energy Simulation Software Installation & Awareness Workshop” organized by School of Illumination Science, Engineering & Design.

- Prof. (Dr) Saswati Mazumdar, delivered a lecture on “Business opportunities in LED Lighting” at Calcutta Club, organized by Electrical & Electronics Manufacturer’s Association on 21.11.2009.
- Mr. Suddhasatwa Chakraborty delivered a lecture on “LED, new generation light source” on in19<sup>th</sup> Workshop & Symposium of “Application of Modern Technology in Electrical Installation” organized by ‘Electrical Engineers’ Association”, West Bengal.
- Mr. Suddhasatwa Chakraborty, delivered a lecture on the topic “Journey towards Enlightenment” on a Technical talk organized by Forum of Scientists, Engineers and Technologists (FOSET), Jadavpur.
- Mr Suddhasatwa Chakraborty, delivered a lecture on the topic “Lighting Code for all?” on a seminar of “National Lighting Code” at K.P. Basu Memorial Hall jointly organized by ISLE and SISED-JU on 14.11.09.
- A technical talk by Havels about “Safety and Energy Efficient Lighting” organized by SISED on 25/07/2009 at Seminar room of EE Dept. of Jadavpur University.
- “Illumination Design & Energy Conservation” by Prof. S. Mazumdar, Director (SISED) in 2008 in the training programme organized by State Productivity Council.
- Prof. S. Mazumdar Acted as Resource Person in the Workshop on “Kick the Habit towards the Low Carbon Economy” organized by National Institute of Technical Teachers Training and Research Govt. of India and Vivekananda Institute of Environment and Management, Kolkata on 4<sup>th</sup> June 2008.
- “Non-Conventional Lighting for Village Homes” by Prof. S. Mazumdar Director (SISED) at Chennai organized by Chennai State Centre, ISLE.
- A half day workshop was organized on “Building Energy Simulation Awareness” on 14<sup>th</sup> June 2008 under ECO-III Project (Energy Conservation & Commercialization – Phase-III supported by US Department of Energy).
- A seminar was organized on “Development of Illumination Technology to reduce Global Warming” on 1<sup>st</sup> July, 2008 jointly with Bengal National Chamber of Commerce & Industry. Speakers - Mr. K. Naveen, Mr.V.K. Rohatgi and Prof. Saswati Mazumdar.
- A Seminar was organized on jointly with Indian Society of Lighting Engineers (ISLE) “Energy Conservation with special reference to Building Lighting System”. Speakers: Mr. S.K. Ganguly, Mr. S. Das on 5<sup>th</sup> July 2008.
- A lecture was organized on “Electrical Safety Products” by Mr. Nikhilesh Dey (Specification Manager – Legrand India) on 12<sup>th</sup> July, 2008 jointly with ISLE.
- A seminar was organized on “Approach to Energy Efficient Lighting Systems” by M/s. Crompton Greaves Ltd. jointly organized by SISED & Illumination Engg. Section.

21. Student projects

percentage of students who have done in-house projects including inter-departmental projects : 70%

percentage of students doing projects in collaboration with other universities / industry / institute : 30%

22. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

| Seminars/Conferences/Workshops   | Funding details                              |
|--|--|
| A short course was organized on “Basic Electrical Engineering & Illumination for Electricians” - instructor was Mr. Rainer Heidcamp, Bonn, Germany | Jointly organized by SES, Germany & SISED    |
| Two days course was organized on “Lighting on Heritage Structure”  | Jointly organized by DRONAH, Gurgaon & SISED |

|   |  |
|---|--|
| Seminar was organized on “Renewable Energy based System” & “Promotion Of Solar Home Lighting System – Technology and Policy” by the world famous scientist Prof. (Dr.) Saifur Rahman, Director, Advanced Research Institute, Virginia Tech, USA | Jointly organized by SISED, ISLE, IEEE-Power Engineering Chapter                   |
| Seminar was organized on “Development of Illumination Technology to reduce Global Warming” - Speakers - Mr. K. Naveen, Mr.V.K. Rohatgi and Prof. Saswati Mazumdar.  | Jointly with Bengal National Chamber of Commerce & Industry                        |
| Seminar was organized on “Energy Conservation with special reference to Building Lighting System”. Speakers: Mr. S.K. Ganguly, Mr. S. Das   | Jointly with Indian Society of Lighting Engineers (ISLE)                           |
| A seminar was organized on “Approach to Energy Efficient Lighting Systems”  | Jointly organized by M/s. Crompton Greaves Ltd. & SISED Illumination Engg. Section |

**23. Student profile programme-wise (in the Current Semester):**

| Name of the Programme<br>(refer to q. no. 4) | Applications received |     | Admitted             |        | Pass percentage (w.r.t. last graduating batch) |
|--|-----------------------|-----|----------------------|--------|--|
|  |                       |     | Male                 | Female |  |
| M.Tech                                       | 2011                  | 80  | 15                   | 3      |  |
|  | 2012                  | 117 | 15                   | 3      |  |
|  | 2013                  | 137 | 12                   | 6      |  |
| JRF  | 3                     |     | Male – 1             |        |  |
| SRF  |                       |     | Female - 1           |        |  |
| PhD  | 3                     |     | Male – 2; Female - 1 |        |  |

**24. Diversity of students**

| Name of the Programme<br>(refer to q. no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| M.Tech – 1 <sup>st</sup> Year                | NIL                                    | 95 %   | 5%  | 0%                                 |
| M.Tech – 2 <sup>nd</sup> Year                | 12.5%                                  | 81.25%   | 6.25%   | 0%                                 |
| M.Tech – 3 <sup>rd</sup> Year                | 66.7%                                  | 33.3%  | 0%  | 0%                                 |

**25. Present details of departmental infrastructural facilities: Sharing all facilities with the department of Electrical Engineering.**

**26. List of doctoral, post-doctoral students and Research Associates**

a) from the host institution/university

b) from other institutions/universities

| Programme   | No of students        |
|---|-----------------------|
| Enrolled for PhD only from other institutions/universities                                  | 01 (Dipayan Nath)     |
| Enrolled for Post Doctoral  | 0                     |
| Joined as Research Associates & Enrolled for PhD from the host institution/university       | 01 (Mausumi Banerjee) |
| Joined as Research Associates but not Enrolled for PhD from the host institution/university | 01(Rajib Malik)       |

**27. Does the department obtain feedback from: (From the feedback of the participants of the workshops & seminars organized, the need for M.Tech course and certificate courses was realized.)**

faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes, In the meeting with Visiting teachers, the modifications needed by students are discussed & steps are taken accordingly.

students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes, New external visiting staff are included in sessionals and projects done by students are given special care.

alumni and employers on the programmes offered and how does the department utilize the feedback? Yes, On the need of employers, new emerging topics are included in their course work.

28. Give details of student enrichment programmes involving external experts.

| Name of the Workshop   | Industry/ Institution | Description of programme  |
|--|-----------------------|---|
| Industry Institute<br>Interactive Program:<br>Latest Development and<br>Challenges in different<br>fields of Artificial<br>Lighting Design | TEQIP, JU             | Lectures were delivered on different topics on Artificial lighting trends like as - Ms. Sudeshna Mukherjee of Philips Electronics India Ltd. on "Latest change in Lighting Application", Prof. Susanta Bhowmik of Consulting Engineering Services (India) on "Concerns to the Consultant for Effective Design of Outdoor Lighting", Dr. Rajat Subhra Mondal of Osram India had delivered his very informative lecture on "Transition to Solid State Lighting", This was followed by Sirsendu Paul of GE lighting on "LED Application & Reliability", Tuhin Banerjee of M/s Jayanta Lamp shared his views regarding the importance of incandescent lamp in modern era, Sri Dipon Sarkar of M/s Marc Eco Lighting had given a lecture on energy efficient LED lighting. |

Special Lectures

| Speaker                   | Industry / Organization           | Topic  |
|---------------------------|-----------------------------------|--|
| Mr. Sirshendu Pal         | GE Lighting                       | Current practice & Future trends of Industrial Lighting                                    |
| Mr. B. Rohatgi            | Binay Optoelectronics             | Optimizing LED lighting for Greater Energy savings   |
| Ms. Sudeshna Mukhopadhyay | Philips Lighting University       | Trends in Architectural Lighting   |
| Mr. R. P. Savita          | Victoria Memorial Hall            | Museum Lighting  |
| Mr. Vikas Rana            | Philips Electronics India Limited | Lighting Software – DIALux (Interior)  |
| Mr. Manick Sorcar         | Sorcar Engg. Inc. USA             | Laser Animation  |
| Mr. Kaniska Sen           | Standard Robotics, Kolkata        | Stage Lighting   |
| Mr. Soumyadip Guin        | Verb Films, Kolkata               | Motion Picture Lighting Technique  |
| Mr. Kalyan Chakraborty    | KC & Associates, Kolkata          | Creative approach to lighting design in different activity areas                           |
| Mr. Dipankar Banerjee     | Indcon, Kolkata                   | System Design & Engineering, Planning and Presentation of Internal Electrification Project |

29. List the teaching methods adopted by the faculty for different programmes.

Use of projectors with laptops; Use of Overhead projectors; Use of white boards.

30. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

With the regular contacts with Lighting Industries and from their positive comments on the course structure, it can be concluded that program objectives have been met. The progress report of the students confirms the learning outcome as successful.

31. Highlight the participation of students and faculty in extension activities.

A large number of students participated in all outreach programmes in Sundarban.

32. Give details of "beyond syllabus scholarly activities" of the department.

Students participate in Research on "Road Lighting", "Museum Lighting", "Flood Lighting", "Day Lighting" etc.

33. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: The degree course is AICTE sanctioned.

34. Briefly highlight contributions in generating new knowledge, basic or applied.

- Distributed 110 battery powered 3W LED lights in non-electrified villages of Sundarban.
- Distributed 11 cycle powered battery chargers to charge those battery-powered LED lights.
- Installed 3x35W Sodium Vapour combined with 6W LED Solar Street light systems in Sundarban.

- Installed 8x6W only LED based street light system in Sundarban.
- Distributed 40 CFL based Solar lanterns to poor students in Bali, Sundarban.
- Developing Aids for Visually Handicapped people to help them in safe walking.
- Developing new controllers for hybrid (Solar & Conventional) power line.
- Developing new drivers /ballasts for artificial light sources.

35. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC)

*Strengths*

- Research infrastructure available in Jadavpur University main campus.
- Equipment fund available from many sources, e.g., TEQIP, UGC, AICTE etc.
- Help obtained from E.E. Dept.
- Help obtained from different Industries.
- Help obtained from different Government Organization.

*Weaknesses*

- No space for office.
- No space for classrooms.
- No Permanent teachers.
- No Permanent teaching staffs.
- Delay in Administrative work in Aurobindo Bhavan.

*Opportunities*

- Very good support (e.g. space for classrooms, laboratory etc.) is provided by E.E. Dept.
- Financial help is given by University Authority.
- Intelligent & sincere students are joining in the course.
- Kolkata Police, Kolkata Municipal Corporation, West Bengal Minority Development & Finance corporation etc. organizations sponsoring students and involving SISED in different works.
- Many industries coming to SISED to solve their problems, so industry institute relation is extended.

*Challenges*

- Without having own building etc. courses are being continued smoothly.
- Regular classes are being taken by Visiting Faculties who are either Illumination Engineering Degree holders / Lighting industry persons / Electrical Engineering Department Faculties.
- Electrical Engineering Department non-teaching staffs co-operate sincerely in all courses.
- ME Illumination Engineering Day students of Electrical Engineering Department help in various ways to SISED.
- Regular programmes are undertaken for training people about safe use of Electricity.
- Many villagers of non-electrified areas are benefitted by outreach programmes.

36. Future plans (in as much detail as possible):

- To Conduct World Class Research on Illumination Engineering.
- To make available low cost lighting system to non-electrified villages.
- To create awareness about benefit of good wiring, lighting & electrical safety.
- To train electricians & wiremen about efficient lighting system.
- To make bright lighting engineers who would serve the lighting industry.
- To solve the technical problems of lighting industry / user.
- To make a testing laboratory of national importance.

### School of International Relations and Strategic Studies

1. Name of the School: INTERNATIONAL RELATIONS AND STRATEGIC STUDIES
2. Year of establishment: 1987 (became operational from 1988).
3. Faculty to which the School is attached: FISLM
4. Names of programmes offered: Ph.D.
5. Interdisciplinary programme being conducted and other Departments involved:  
The academic activities of the School are conducted by the Academic Committee whose members are drawn from different Departments spread over all Faculties of the University. The Director and the Joint Director of the School are from the Department of International Relations and the Department of Economics respectively.
6. Examination system: Semester.
7. List of Senior Visiting Fellows, adjunct faculty, emeritus professor, visiting professors:  
Dr. Sumit Roy has been working as a Visiting Senior Research Fellow (Honorary).
8. Number of academic support staff (technical and administrative staff, sanctioned, filled and actual: Only one Junior Assistant-Cum-Typist (Temporary).
9. Research thrust areas as recognized by major funding agencies :  
*DYNAMICS OF SECURITY: PERSPECTIVES OF THE STATE AND CITIZENS.*
10. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give names of the funding agencies, project titles and grants received project-wise. :  
UGC sponsored UPE-II Project on *Dynamics of Security: Perspectives of the State and Citizens*. An amount of Rs.7, 98,000/- has been sanctioned for first two years. The break up is: (Rs.3,18,000/- and Rs.4,80,000/- for First Year and the Second Year respectively)
11. Departmental projects funded by DST-FIST, UGC-SAP/CAS, DPE, DS BT, ICSSR, AICTE, etc. total grants received (Give details): UPE-II.
12. Publications: See Annexure for details.
13. Faculty recharging strategies conducted :
  - i) UGC-ASC Refresher Course for College and University teachers entitled *Global Changes and Contemporary India*, January, 2010.
  - ii) UGC-ASC sponsored Refresher Course on *Politics and Economics of Global Security*, December 2011.
  - iii) UGC-ASC Refresher Course on *Emerging Trends and Contemporary Debates in International Relations* November-December 2013.
14. Seminars/Conferences/Workshops organized:
  - Seminar on WTO and the Indian Print Media on 7 February 2008.
  - One-day seminar on *Democracy in South Asia: Challenges and Opportunities* on 25th March, 2008.
  - International Seminar on *Eastern Indian Ocean : Historic Linkages and Contemporary Convergences* in collaboration with the Centre for South and Southeast Asian Studies, University of Calcutta on 10-11 January 2009.
  - National Seminar on *Afghanistan and Central Asia: Can the Shatterbelt be Transformed?* held on 25th February 2011.
  - Workshop on *Contemporary Political Theory : Positivism and Beyond* in collaboration with the Department of International Relations, Jadavpur University and Council for Political Studies, Kolkata on 23rd March 2011.
  - Tri-University National Seminar on *Teaching, Research and Trends in Political Science and International Relations* organized by the School of International Relations and Strategic Studies, Jadavpur University, Department of Political Science,

University of Calcutta, Department of Political Science, Rabindra Bharati University and Department of International Relations, Jadavpur University on March 5, 2012.

- Seminar on *Studying Indian Political Through Texts: Reading M. N. Roy Today* was organized by the School of International Relations and Strategic Studies, in collaboration with the Department of International Relations, Jadavpur University and Council for Political Studies, Kolkata on October 5, 2012.
- National Seminar on *South Asia: Global Order, Integration and Future Possibilities* under UGC-UPE-II Program during March 19-20, 2013.

15. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities | % of students from universities outside the state | % of students from other countries |
|---|--|---------------------------------------|---|------------------------------------|
| Ph.D. (2011-12)                                 | 4 (80%)                                | 1 (20%)                               | NIL   | NIL                                |
| Ph.D. (2012-13)                                 | 3 (100%)                               | NIL                                   | NIL   | NIL                                |

16. Present details of Departmental infrastructural facilities with regard to

- Library: yes.
- Internet facilities for staff and students : 1
- Total number of class rooms : 1
- Class rooms with ICT facility : 1
- Students Laboratories: N.A.
- Research Laboratories: N.A.

17. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: No.

18. Give details of student enrichment programmes involving external experts :

- Dr. Amit Dasgupta (Institute for Contemporary History, affiliated to Historical Division, Foreign Office, Berlin, Germany) delivered a talk on European Community the Two Germanies and the Bangladesh War 1971-72 on 25th January 2008.
- Mr. Jerome Bonafont, the Ambassador of France in India delivered a talk on Indo-French Relations on 29th February 2008.
- Prof. Baladas Ghoshal (Senior Fellow, Centre for Policy Research, New Delhi) delivered a talk on *The Emergence of New Malaysia* on 27th March, 2008.
- Prof. Richard English, Director of Research (Irish Politics), Chair, Irish Studies International Research Initiative, Department of Politics, Queens University, Belfast, UK delivered a lecture on *How Terrorism Ends : The Case of the IRA* on 19th November 2008. The session was chaired by General (Retd.) Sankar Raychaudhuri who is also a member of the Academic Committee of the School. Prof. Peter Gregson, Vice-Chancellor of Queens University, Belfast, UK was present at the seminar.
- A talk on World Economic Crisis was organized in collaboration with the Society for National and Global Affairs, Kolkata on 2nd January 2009. The speaker was Prof. Kalyan Chatterjee, Professor of Economics, Pennsylvania State University, USA.
- Dr. Sumantra Bose, Professor of Government, London School of Economics & Political Science delivered a talk on Ethnic Conflicts: A Comparative Study of Sri Lanka and Kashmir on 30th January 2009. The program was organized in collaboration with Indian Association for Asian and Pacific Studies (IAAPS), Kolkata.
- Prof. Chang-Hee Nam, Associate Professor, Inha University, South Korea, delivered a talk on A Comparative Look at the India-US-Japan Security Dialogue and US-Japan-Korea Security Cooperation on 3rd February 2009.
- Dr. Sumit Roy, Visiting Senior Research Fellow, SIRSS, made a presentation on his research project he has been pursuing under the School on 3rd March, 2009. The title of the presentation was *Globalisation and the 'Emerging Giants', China and India and their Economic Cooperation*.



- i) Sri Pramit Pal Choudhury, Foreign Editor, Hindustan Times, delivered a talk on *Asian Geopolitics and the Af-Pak Policy* on September 4, 2009.
- j) Prof. Harsh V. Pant, Professor of King's College, London, delivered a lecture on *India and the Evolving Balance of Power in the Asia Pacific* on 29th October 2009. The session was chaired by Prof. Pradip Sarbadhikari, former Professor of Lakehead University, Canada.
- k) The School, in collaboration with the Department of International Relations, Jadavpur University organized the First Professor Jayantanuja Bandyopadhyay Memorial Lecture on 3rd November 2011. The lecture was on *Foreign Policy in the Age of Transition: Two Asian Models* delivered by Professor Radharaman Chakrabarti, former Vice-Chancellor, Netaji Subhas Open University.
- l) The School, in collaboration with the Department of International Relations, Jadavpur University organized the Second Professor Jayantanuja Bandyopadhyay Memorial Lecture on 2nd November 2012. The lecture was delivered by Professor Arun Kumar Banerji, former Dean, Faculty of Arts & Ex-Director, School of International Relations and Strategic Studies, Jadavpur University. The title was: *India China Relations: It Takes Two for a Tango*.

19. Briefly highlight contributions in generating new knowledge, basic or applied :

It seems that the School was established with three different objectives: (a) to undertake systematic empirical analysis of strategic behaviour and strategic culture of major countries of the world, with emphasis on our neighbouring countries; (b) to understand the dynamics of such behaviour in terms of existing theories of international relations and foreign policy analysis; and, (c) to make major policy recommendations, both at national and international levels. Broadly speaking, one can identify four major contributions towards knowledge formation. During the initial years, the School concentrated mainly, if not exclusively, on methodological innovations – in fact, efforts were made to look into the dynamics of action-reaction model in the sphere of arms race, make assessment of this model and reformulate it. This was a period in which too much emphasis was given on quantitative analysis and mathematical modeling of strategic and international studies. This phase was followed by a change towards policy oriented studies. Quantitative methodology was challenged, although it was not completely rejected. In the third phase, one could identify a move towards adopting a much broader and comprehensive understanding of security issues in terms of their military and non-military dimensions. Such processes have been resulted in the culmination of undertaking a project on *Dynamics of Security: Perspectives of the State and Citizens* under the UGC sponsored UPE II programme in the present phase. This phase has also been characterized by the introduction of doctoral programme with the hope that it will enable the School to engage itself to concentrate on issues of contemporary relevance. Besides, the School also commits itself to more rigorous methodological debate – the question which has been raised is: is it possible to understand the dynamics of International relations, in general, and strategic studies, in particular, in accordance with what has been described as 'hermeneutically informed social theory'?

20. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC)

The SWOC can be looked into in terms of academic contributions of the School and human resources on which the School is dependent. As far as *strengths* are concerned, one can identify the following:

- Initiation of methodological debates in the field of international relations and strategic studies;
- A conscious adoption and commitment to multidimensional aspects of security issues;

- Increasing concerns among faculty members, associated with the School, for establishing linkages between dynamics of strategic behaviour of states and day-to-day concern of individuals;
- Conglomeration of faculty members from various disciplines, such as International Relations, Economics, History and Engineering on the Academic Committee; and,
- Presence of young energetic scholars with diverse social backgrounds in the newly introduced doctoral program.

Regarding *weaknesses*, one may express concern about the following:

- Methodological debates leading either to abstractionism or eclecticism;
- Absence of interdisciplinary mind set among some of the members;
- Reluctance of policy-makers to engage in deliberations with faculty members probably due to secrecy involved in defense establishment;
- Absence of even a single full time faculty and full time staff; and,
- Absence of adequate infrastructural facilities.

We are not sure what is exactly meant by *opportunities*. If it means job opportunities for our students, then our students may get employed in colleges and universities, research institutes and think tanks like IDSA.

As far as *challenges* are concerned, we identify the following:

- Reconciling and incorporating views, perspectives and data from various angles, such as political, cultural, economic, ethical and technical for a comprehensive understanding of strategic behaviour and international relations;
- Evaluation and assessment of past behaviour of nation-states as possible explanations of future performances;
- Recommending policies to the Government and/or international institutions in the backdrop of information asymmetry and bounded rationality.

## 21. Future Plans (in as much detail as possible):

- A. We intend to introduce an Integrated M.Phil-Ph.D. Programme in Strategic Studies which will keep one slot exclusively reserved for defense service personnel.
- B. A course on *Artificial Intelligence* should be included as a compulsory course in the proposed integrated Programme. This course may be introduced in collaboration with the School of Education Technology/Department of Computer Science/School of Cognitive Science.
- C. We expect that we should have at least five or six computers for simulation purposes. The computers will be used by the Research Scholars as well as faculty members associated with the School.
- D. We also look forward to sanction for one post of Professor with specialization in Strategic Studies.
- E. Right now we have just 400 sq. ft. (approx.) space which is absolutely inadequate for day to day functioning. The Director has to share this room with Research Scholars and Library users. At the same time this room is used for holding seminars of the School.
- F. We also expect that Strategic & Defense Studies require extensive usage of Books and Documents. Unfortunately the grant is inadequate.
- G. Finally, this is our dream that there would be more collaboration between the School and the Department of Defense, Government of India.

### School of Languages and Linguistics

1. Name of the School: LANGUAGES AND LINGUISTICS
2. Year of establishment: 1991
3. Faculty to which attached: FISLM
4. Names of programmes offered: PG, M Phil, PhD; Certificate Courses, Diploma, Advanced diploma courses in foreign languages

i) Regular Courses: Under Graduate, Post Graduate, M Phil, and PhD courses

| Name of the Courses | Subject     | Year started | Courses  | Marks                           |
|---------------------|-------------|--------------|--|---------------------------------|
| 1. UG               | LINGUISTICS | 2010         | Extra Departmental Courses (Four Semesters)  | Total Marks : 300<br>Papers - 6 |
|                     | PORTUGUESE  |              | Till 2013 four ED Courses. From 2013 six courses have been offered in two semesters. | Total Marks : 300<br>Papers - 6 |
| 2. PG               | LINGUISTICS | 2013         | Two Years (4 Semesters)  | Total Marks : 900               |
| 3. M PHIL           | LINGUISTICS | 2013         | Two Years (4 Semesters)  |                                 |
| 4. PHD              | LINGUISTICS | 2011         | As per UGC and JU Norms  |                                 |
| Certificate Course  | LINGUISTICS | 2010         | Semester system  | One Year / 300 Marks / 6 papers |

ii) Language Courses Offered: Certificate, Diploma, Advanced Diploma courses of Seven Foreign Languages and three Indian Languages

- i. All Language Courses are One Year other than English.
- ii. These Courses are offered since 1991.
- iii. Courses are in Annual System

A) Indian Languages

| Name of Languages | Certificate | Diploma | Advanced Diploma-I | Advanced Diploma-II |  |
|-------------------|-------------|---------|--------------------|---------------------|--|
| Bengali           | Yes         | Yes     | Yes                | Yes                 |  |
| Sanskrit          | Yes         | Yes     |                    |                     |  |
| Hindi             | Yes         | Yes     |                    |                     |  |
| English           | Yes         |         |                    |                     |  |

B) Foreign Languages

| Name of the Languages | Certificate | Diploma | Advanced Diploma-I | Advanced Diploma-II |
|-----------------------|-------------|---------|--------------------|---------------------|
| Italian               | Yes         | Yes     |                    |                     |
| Portuguese            | Yes         | Yes     | Yes                |                     |
| Spanish               | Yes         | Yes     |                    |                     |
| French                | Yes         | Yes     | Yes                |                     |
| German                | Yes         | Yes     | Yes                |                     |
| Japanese              | Yes         | Yes     | Yes                |                     |
| Korean                | Yes         | Yes     |                    |                     |

C) Number of Students under the school in this academic year: 380

5. Interdisciplinary programs being conducted and other departments involved:  
 i) Interdisciplinary program like Workshop and Seminar is organized occasionally in collaboration with other institute like CIIL, National Translation Mission, Mysore, IIT Hyderabad etc.
6. Courses in collaboration with other universities, industries, foreign institutions, etc.:  
 A MOU with the Portuguese Cultural Centre, Instituto Camoens,  
 Another MOU with the Italian Government for teaching Italian Language.
7. Examination System: Annual/Semester/Trimester/Choice Based Credit System:  
 1. Semester system for the regular courses in Linguistics and Portuguese  
 2. Annual system for Language Courses.
1. Participation of the department in courses offered by other departments:
- M Phil 1<sup>st</sup> and 2<sup>nd</sup> Semester since 2010, Optional course. Sociolinguistics, Department of Bengali, JU, Mahidas Bhattacharya.
  - M A (day) 2<sup>nd</sup> and 3<sup>rd</sup> Semester , since 2012 , Schools in linguistics, Optional course Dept of Bengali. Mahidas Bhattacharya.
  - M A (evening) 2<sup>nd</sup> and 3<sup>rd</sup> Semester , since 2012 , Schools in linguistics, Optional course Dept of Bengali. Mahidas Bhattacharya.
  - M A (Sanskrit) 2<sup>nd</sup> semester, Linguistics , 2012 , Historical Linguistics, General paper, Mahidas Bhattacharya,
  - M Phil 1<sup>st</sup> Year, 2<sup>nd</sup> Semester 2012-2013, Optional course, Cognitive Linguistics, School of Cognitive Science, Department of Philosophy offered by Dr. Samir Karmakar
  - Dr. Samir Karmakar is supervising M Phil thesis, 2<sup>nd</sup> year, 2013-2014, School of Cognitive Science, Department of Philosophy
9. Number of teaching posts sanctioned, filled and actual (Professor/Associate Professor/Asst. Professor/others):

|                     | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 1          | 1      | 1                            |
| Associate Professor |            |        |                              |
| Asst. Professor     | 2          | 2      | 2                            |
| Other               |            |        |                              |

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| S. No | Designation                           | Sanctioned Strength | Existing Strength                   | Comment  |
|-------|---------------------------------------|---------------------|-------------------------------------|--|
| 1     | Professor                             | 1                   | 1 (one)                             |  |
| 2     | Associate Professor                   | Nil                 |                                     |  |
| 3     | Assistant Professor                   | 2                   | 2 (two)                             |  |
| 4.    | Assistant Professor                   |                     | 1 : Portuguese                      | Contractual faculty supplied by Portuguese embassy |
| 5.    | Italian Guest faculty                 |                     | 1 : Italian                         | Contractual faculty supplied by Italian embassy    |
| 6.    | Guest Lecturers for Language Courses. |                     | 15 Fifteen                          | For all other languages mentioned above.           |
|       | Total Teaching Staff                  | 3                   | 20 (3 Full-time + 2 + 15 part-time) |  |

11. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:
- Dr. Probal Dasgupta, Professor, ISI, Clacutta.
  - Dr. Shyamsundar Bhattacharya, Ex. Officio, Office of the Registrar General, Govt. India.
  - Dr. Krishna Bhattacharya, Emeritus Professor, Linguistics Department, University of Kolkakta
  - Dr. Mina Dan, Professor, University of Kolkata
  - Dr. B. N. Pattanayak, Retd. Professor, IIT Kanpur
  - Dr. Uday Narayan Singh, Professor, University of Kolkata
  - Dr. Awadhesh Mishra, Professor & Director, CIIL, Mysore
  - Dr. S.N. Barman, Principle, ERLC, Bhubaneshwar
12. Percentage of classes taken by temporary faculty – programme-wise information:
- 100 % classes of Language Courses are taken by the temporary faculties.
  - 100% ED classes of Portuguese are taken by Temporary Faculties.
  - No temporary faculties are involved for the PG i.e MA, M Phil and PhD Classes.
13. Programme-wise Student Teacher Ratio:
- Student Teacher Ratio in regular courses is very poor, primarily because of the varieties of areas in Modern Linguistics covered in E.D, Certificate, MA, M Phil and PhD courses. Current strength of the teaching staff is much lower than what it should be.
- In Language Course: 1:20 (approx..) in Language Courses on the whole.
14. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual:

Non Teaching: No Sanctioned post. Only one temporary technical assistant is available.

| Non- Technical Staff       |  |
|----------------------------|--|
| 1. One Technical assistant | Temporary on the basis of consolidated pay @ 5000/- per month. |

15. Research thrust areas as recognized by major funding agencies: The School has taken initiative to introduce regular courses. Individual researches are also going on. At present school is involved to regularize the linguistics courses. The School is also attempting to systematize all language courses in systematic course curriculam.
16. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

| Name of the Faculty                            | Funding Agency   | Total grant    | Project details   |
|--|--|----------------|---|
| Mr. Atanu Saha                                 | International<br>Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands | 50,000 approx. | Working on Bangla language for the project Evolution of Semantic Systems with 20 native Bangla speakers |
| Dr. Samir Karmakar<br>(Principal Investigator) | Jadavpur University<br>Research Grant  | Rs. 50,000/-   | Project on “Emergence of Number System in Pre-School Child Language”, Ref. R-11/A/11/13                 |
| Dr.Mahidas<br>Bhattacharya                     | Jadavpur University<br>Research Grant  | Rs. 19000/-    | Project on “Juncture on Bengali”.   |

17. Publications:

Number of papers published in peer reviewed journals (national / international)

- By Mahidas Bhattacharya
  - National 4 ( 2008 on Ward)
  - International 2 (2008 onward)
- By Mr. Atanu Saha

- National: 4 (2008 onward)
      - International: 3 (2008 onward)
    - By Dr. Samir Karmakar
      - National: 5 (2008 onward)
      - International: 2 (2008 onward)
  - \* Monographs
    - By Dr. Samir Karmakar
      - National: 3 (2008 onward)
      - International: 4 (2008 onward)
  - \* Chapters in Books
  - \* Edited Books
  - \* Books with ISBN with details of publishers
    - Mahidas Bhattacharya - 1
  - \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
    - By Dr. Samir Karmakar
      - Web of Science: 2
      - De Gruyter: 1
      - Advanced Computing Machinery (ACM database): 1
      - DBLP Bibliographic database: 1
      - Muse database: 1
  - \* Citation Index – range / average
  - \* SNIP
  - \* SJR
  - \* Impact Factor – range / average
  - \* h-index
18. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):
- a. Prof. Mahidas Bhattacharya
    - i. 2011 Received Travel Grant from CIIL, Mysore to attend 44<sup>th</sup> Foundation day of CIIL Mysore. (7-9<sup>th</sup> October 2011).
    - ii. 2012 ISDL Received Travel Grant to Attend the seminar from ISDL Trivandrum
    - iii. 2013 ISDL Received Travel Grant for Attending a Seminar on Vivekananda and South India.
  - b. Dr. Samir Karmakar
    - i. 2010 NIAS Travel Grant for attending IITM 2010 at IIT Allahabad, India
    - ii. 2010 DST Young Scientist Travel Grant from Department of Science and Technology, Govt. of India for attending CogSci 2010 at Portland, USA
    - iii. 2010 Travel Grant from the organizers of National Seminar on Epistemology and Cognitive Science: Their Interplay in Contemporary Knowledge Analysis at Sree Sankaracharya University of Sanskrit, Kalady
    - iv. 2008 GradEast visiting PhD Studentship from Forskerskole Fst, University of Copenhagen, Denmark

19. Faculty serving in  
 a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)
- Prof. Mahidas Bhattacharya,
    - Member of Editorial Board ‘International Journal of Dravidian Linguistics.
    - Member of the Editorial Board of ‘Bhasa Bijnaan O Prajukti’, SNLTR, Calcutta
    - Member of the Board of Studies , University of Calcutta.
    - Member of the Board of Adjudicator , Assam University, Silchar.
    - Member of the Board of Adjudicator , University of Kerela.
    - Member of the Board of Adjudicator , Rabindrabharati University
    - Member of the Board of Adjudicator , Asiatic Society , Calcutta.
  - Mr. Atanu Saha is working as a programming officer for the National Service Scheme under Ministry of Youth affairs and Sports for the year 2013-14.
  - Dr. Samir Karmakar has been assigned an editorial position by Third Front – A Journal for Humanities and Social Sciences, ISSN 2320 – 9631
  - Dr. Samir Karmakar is in the Doctoral Committee of National Institute of Advanced Studies, Bangalore
20. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):
1. 2010: Workshop (13 - 16 December 2010) on *Natural Language Processing*, on 13<sup>th</sup> December 2010, In Collaboration with CIIL Mysore.
  2. 2010: Workshop (13 - 16 December 2010) on *Natural Language Processing*, on 13<sup>th</sup> December 2010 Ten-day workshop on the Technical Term of social science in collaboration with National Translation Mission, Govt of India, Mysore.
  3. 2011 A Collaborative Project with National Translation Mission, Mysore on the Translation of Technical Term of Mathematics, Political science, Philosophy, Mechanical Engineering, chemistry, history etc. for ten days since 19.09.2011.
  4. 2012: “Ten-day NLP Orientation Cum Training Programme” (15 - 25 February 2012) on *Natural Language Processing*, on 15<sup>th</sup> February 2012. In Collaboration with CIIL Mysore.
  5. 2012 Organized a Workshop on “Linguistics for Literature” in Collaboration with CAS, Department Comparative Literature on 22<sup>nd</sup> March 2012.
  6. 2012 “Four-day Translator’s Orientation Programme” (17 - 20 December, 2012) on 17<sup>th</sup> December 2012, in collaboration with NTM, CIIL, Mysore.
  7. 2013, Seminar on Linguistic Diversities and Multilingualism/Bilingualism to observe the Mother Tongue Day. on 22<sup>nd</sup> February, 2013.
  8. 2013 , National Seminar on "The Chinese Language: A Journey to the Domain of Chinese History and Culture” on 28 June, 2013 in the Vivekananda Hall.

21. Diversity of students

| Name of the Programme | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|-----------------------|--|--|---|------------------------------------|
| MA Linguistics        | 10%                                    | 80%  | 10%   | 0%                                 |
| PHD Linguistics       | 92%                                    | 8%   | 0%  | 0%                                 |
| Language courses      | 63%                                    | 19%  | 2%  | 16%                                |

22. How many students have cleared Civil Services and Defense Services examinations, NET, SLET, GATE and other competitive examinations? Give details category-wise.  
 NET: 5; Rajiv Gandhi Fellowship: 1

23. Diversity of staff

|  |     |
|--|-----|
| Percentage of faculty who are graduates  |     |
| of the same university                   | 35% |
| from other universities within the State | 65% |
| from universities from other States      | NA  |
| from universities outside the country    | NA  |

24. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period (2008 – 2013): NA

25. Present details of departmental infrastructural facilities with regard to

a) Library: None; faculty members are gathering books according to their own need

b) Internet facilities for staff and students: Available

c) Total number of class rooms: One office cum classroom cum laboratory cum teachers working room as well as library.

d) Class rooms with ICT facility: The same room

e) Students' laboratories: The same room

f) Research laboratories: No separate room

26. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

1. Doctoral

a) Mr. Santanu Mandal (UGC Fellowship)

b) Ms. Amrita Das (State Fellowship)

c) Ms. Anjali Paik (Rajib Gandhi Fellowship)

d) Ms. Baidehi Sengupta (University Fellowship)

e) Mr. Debdip Dhibar (UGC Fellowship)

f) Mr. Saomya Sankar Ghosh (University Fellowship)

2. Research Associates and Doctoral Candidates

a) Ms. Rimi Ghosh Dastidar (State Fellowship in Linguistics)

27. Number of post graduate students getting financial assistance from the university. (Give details.) M Phil: 6, PhD: 2

28. List the teaching methods adopted by the faculty for different programmes.

For ED and Certificate courses in Linguistics: Classroom lectures

For MA and MPhil programmes in Linguistics: Classroom lectures with Interactive Classroom Technology, Field Survey etc.

For PhD: Classroom lectures, Discussion, student presentations etc.

For Language courses: No specific method like Direct method, Grammar translation method, Audio-visual method, Communicative method or immersion method etc. But the effective part of all these methods were adopted utilizing technological facilities.

29. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Through continuous differential evaluation by organizing surprise tests, classroom quizzes, presentations, internal and end semester exams on regular intervals in a academic calendar, also consider the students opinion.

30. Give details of “beyond syllabus scholarly activities” of the department

i) Regular workshops/seminar on contemporary issues, Film Screening on various topics, Educational tour etc.

ii) Providing intellectual and academic inputs to various journals, little magazines, books etc.



31. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

*Strengths*

- a. Faculties are dynamic in the areas and discipline;
- b. Extremely dedicated and hard working teaching faculties;
- c. Faculties are well enough to adapt the new challenges of theoretical and applied aspect of modern linguistics;
- d. Faculties are sensitive to the students' academic requirements;
- e. Availabilities of technological facilities;

*Weaknesses*

- a. Post Graduate Programmes in Linguistics is launched recently.
- b. Number of teaching staffs is less.
- c. Minimum requirement of space is not met. As a consequence both administrative and academic activities are getting disturbed.
- d. Lack of permanent non-teaching staff adds extra load to the teachers.
- e. Fund for the maintenance of a School of this size is very low.

*Opportunities*

- a. Because of being new, the school has the opportunity to incorporate both the traditional and modern contents as per the requirements of its vision;
- b. School is keen in developing interdisciplinary practices;
- c. School encourages its faculties to practice modern techniques of teaching, learning and research;
- d. Having courses on languages and linguistics gives us a rare opportunity to develop an unique understanding of both the fields;
- e. School encourages in developing man powers both in academic and administrative fields;

*Challenges*

- a. Establishing School's reputation nationally as well as internationally in this age of cut-throat research;
- b. Accommodating students from different disciplinary backgrounds is also a challenge for the school;
- c. Balancing administrative and academic responsibilities with limited human resources;
- d. Introducing newer courses in linguistics and languages to cope up with the progress of knowledge and develop the existing school into a advanced center of excellence both in languages and linguistic studies;
- e. Development of trained manpower in linguistics for other disciplines like Computer science, Neuroscience, forensic studies, in the field of perception and knowledge engineering etc
- f. One of the academic challenge of the school is to update the discipline theoretically in the post generative period adopting the contribution of modern technology, cognitive science, descriptive studies of new languages etc

32. The Future plans of the department: Each Discipline has its own objectives considering the importance in different spheres of life, development of knowledge paradigm and updating the discipline itself in new environment. The school has observed that Linguistics is being exercised as an important area of interdisciplinary studies not only in Humanities, the faculties of Science, Neuro Science, Engineering etc also consider it. The principle aim of the school is to train the students according to the need of other disciplines adopting the modern approaches, developed since the fifties of the last

century. Simultaneously the relevant areas of comparative and contrastive studies will also be another founding stone for such training. But the country's immense contribution on the study of language since early historic period has not yet been absorbed in the formal study of linguistics. The school will try to introduce such contribution, relevant to the modern context as another area of study. In the present context if a holistic approach is followed the linguistics and linguists may contribute effectively to update the discipline itself as well as to the other areas of knowledge successfully. The recent attempt for the development of new communication system using technology manipulating spoken and written Natural Languages is an opportunity to resolve the language barriers of the world. The School considers all these developments in its curriculum and research activities. On the whole the school will introduce the core areas with its peripheral applications to satisfy the present need of Technology and other disciplines. For that

1. The school has a plan to introduce an integrated course for linguistic studies adopting post graduate and undergraduate levels.
2. Initiating researches on the core and applied areas of linguistic studies.
3. The contrastive and comparative language studies of different language families.
4. Adaptation of the relevant areas of Indian contribution in the field.

## School of Laser Science and Engineering

1. Name of the School: LASER SCIENCE & ENGINEERING
2. Year of establishment: 2002
3. Faculty to which the School is attached: FISLM
4. Names of programmes offered: M. Tech (Laser Science and Technology) and PhD
5. Interdisciplinary programmes being conducted and other departments involved: Electrical Engineering (JU), Mechanical Engineering (JU), Production Engineering (JU)
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: Workshops conducted with faculty from DRDO, IIT, Kharagpur, BIT, Deoghar
7. Examination System: Semester
8. Participation of the department in courses offered by other departments: Mechanical Engineering Department
9. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:

| Name                      | Qualification          | Designation             | Specialization                   | Years of Experience | PhD students, last 4 years                |
|---------------------------|------------------------|-------------------------|----------------------------------|---------------------|---|
| Prof. Asish Bandyopadhyay | Ph.D.                  | Professor               | Mechanical Engg.                 | 26                  | 4   |
| Prof. Pradip Kumar Pal    | Ph.D.                  | Professor               | Mechanical Engg.                 | 28                  | 4   |
| Prof Dr Tapan Ganguly     | Ph.D., FAScT           | Emeritus Professor      | Molecular and Laser Spectroscopy | 32                  | 5   |
| Dr. Radhaballabh Debnath  | Ph.D.                  | CSIR-Emeritus Scientist | Chemistry, Laser Science         | 30                  | 4   |
| Dr. Souren Mitra          | Ph. D.                 | Associate Professor     | Production Engg.                 | 20                  | Completed: 6<br>Submitted:4<br>Ongoing:6  |
| Dr. Arunanshu Kuar        | Ph. D.                 | Associate Professor     | Production Engg.                 | 14                  | Completed: 1<br>Submitted:1<br>Ongoing: 2 |
| Dipten Misra              | M.E. (Thermal Science) | Assistant Professor     | Mechanical Engg.                 | 28                  | 2   |

10. Programme-wise Student Teacher Ratio: 20:7 (M. Tech in Laser Technology)
11. Number of academic support staff (technical) and administrative staff: 2 (Technical)
12. Research thrust areas as recognized by major funding agencies:
  - a) Development of (Carbon nanotube + fullerene)/Inorganic Composites for Photo-voltaic application.
  - b) Development of rare earth activated low phonon tellurite glasses for application as laser based solid state cryocoolers.
  - c) Light energy conversion devices and their bionanoconjugates
13. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.
  - (i) *Dr. R. Debnath*, Development of (Carbon nanotube + fullerene)/Inorganic Composites and studies on their VIS and NIR laser induced electrical, optical and optoelectronic properties, Council of Scientific and Industrial Research (CSIR), India, Rs. 30,00,000
  - (ii) *D. Misra* and *Dr. R. Debnath*, Development of rare earth activated low phonon tellurite glasses and studies on their prospects as laser based solid state cryocoolers, Board of Research on Nuclear Sciences, DAE, India, Rs. 44,00,000
  - iii) *Prof. Tapan Kumar Ganguly*, Fabrication of highly ordered SERS active nanostructured substrates using langmuir-blodgett technique to understand the

enhancement mechanism in SERS, Department of Science and Technology (DST), New Delhi, India, Rs 28,20,000

14. Inter-institutional collaborative projects and associated grants received  
*International collaboration:* Tsanka Dikova, D. Stavrev (Faculty of Dental Medicine, Medical University of Varna, Bulgaria), Biswajit Misra, K. Venkadeshwaran, and D. Misra (SLSE-JU), Dimensional accuracy in different laser cutting schemes.  
*National collaboration:* D. Misra (JU) and Dr. R. Debnath (JU), Dr. B.N. Jagtap, (BARC), Development of rare earth activated low phonon tellurite glasses and studies on their prospects as laser based solid state cryocoolers, Board of Research on Nuclear Sciences, DAE, India, Rs. 44,00,000
15. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:  
TEQIP: Total Grant received: Rs. 30 Lakhs in last five years. Utilizing the said grant for Q-switched Nd:YAG laser for restoration of artefacts (Phase I) and Fibre laser for laser machining (Phase II).and Fellowship for one Research Scholar.  
UPE-II: Grant received: Rs. 20 Lakhs for Pico-Spark Laser Source.
16. Publications: See Annexure
17. Areas of consultancy and income generated:  
Industrial Consultancy works undertaken by D. Misra
  - a. M/s STUP Consultants for design vetting of KMC sewerage and storm water pumping system
  - b. Design optimization of tea dryers for M/s Kilburn Engg. Ltd.
  - c. Design vetting for stability of crane for use in railbridge over Hoogly river at Naihati for M/s Tania Construction
  - d. Design and development of test rigs for hydraulic characterization of DI pipe for M/s Tata Metaliks Kubota, Kharagpur
  - e. Design and development of test rigs for hydraulic characterization of DI pipe for M/s Balaji Industries, Durgapur
  - f. Designed support system for underground GRP sewerage pipe for M/s Angerlehner, Hoch-und Tiefbau Gessellschaft mBH, Germany
  - g. Design and development of high pressure high temperature pneumatic test facility for aircraft components being installed at Air India premises, Kolkata for M/s Air India
18. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):  
International:  
*T. Ganguly*
  1. Visiting Professor in the Institute of Atomic and Molecular Sciences (IAMS), Academia Sinica, Taipei, Taiwan (2008) in the research group of Dr Wen-Bih Tzeng, Deputy Director.
  2. Invited Speaker in the International Conference on Dynamics and Spectroscopy of small molecules and biomolecules held in the honor of Prof Sheng- Hsien Lin. The conference was held at Center of Condensed Matter Science (CCMS) of National Taiwan University, Taipei, Taiwan during November 09-12, 2008.
  3. As an awardee of Indo-US Science and Technology forum (IUSSTF), short visit (August-September, 2009) in Beckman Institute of California Institute of Technology (Caltech), USA to do research collaboration with Professor Harry B Gray and Professor Bruce B Brunshawig.

4. Visit as a visiting Professor in the State Key laboratory of Physical Chemistry of Solid Surfaces of Xiamen University, Xiamen, China during July/August, 2012 in the research group of Prof Zhong-Qui Tian, Director

*D. Misra:*

1. Scientific-Technical Union of Mechanical Engineering, & Technical University Varna, Bulgaria, in September 2011.
2. Delivered invited talk on Finite Element Analysis for Fluid Flow and Heat Transfer at TEQIP sponsored Faculty Development programme on "Computational and Experimental aspects in Thermal Science", NERIST, during 27th February to 2nd March, 2012.
3. D. Misra was invited to deliver a lecture on "Transmission Laser Contour Welding of Polycarbonates with a Moving Laser Beam: FEM Simulation and Experiments" at Mechanical Engineering Department, North Eastern Regional Institute of Science and Technology, Nirjuli, Itanagar, Arunachal Pradesh, under Staff Development Program (TEQIP) 27th February to 2nd March 2012.

*Dr. S. Mitra*

1. Institut des sciences et technologies de Paris (Paris Institute of Technology) Paris, France in October 2010.
2. Scientific-Technical Union of Mechanical Engineering, & Technical University Varna, Bulgaria, in September 2011.
3. Delivered Lecture on "Laser Beam Welding" in the Short term course on "Welding Processes", at NITTTR. Kolkata, 9-20th July 2012.
19. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)

*i) Dr. Radhaballabh Debnath*

- a) Expert of the project evaluation committee of Board Research Nuclear Sciences (BRNS), DAE, since 2012.
- b) Editor of Indian Journal of Surface Science and Technology, ISSST, Kolkata, India.

*ii) Dr. S. Mitra*

Member of the Editorial board of the Jr. of Institution of Engineers, published by Elsevier.

International committees:

- (a) Dr. S. Mitra acted as member of the organizing committee of the 11th INTERNATIONAL CONGRESS on "MACHINES, TECHNOLOGIES, MATERIALS" organized at Varna, Bulgaria

*iii) Dipten Misra*

- a) Nominated as a Member of International Program Committee of 8th INTERNATIONAL CONGRESS "MACHINES, TECHNOLOGIES, MATERIALS", 19 - 22.09.2013, Varna, Bulgaria
- b) Nominated as a Member of International Program Committee of 9th INTERNATIONAL CONGRESS "MACHINES, TECHNOLOGIES, MATERIALS", 19 - 21.09.2013, Varna, Bulgaria
- c) Acted as one of the two members invited from Asia on the International Program Committee of 10th INTERNATIONAL CONGRESS "MACHINES, TECHNOLOGIES, MATERIALS", 18 - 20.09.2013, Varna, Bulgaria
- d) Reviewer of International Journal of Thermal Sciences, Elsevier
- e) Reviewer of ISHMT-ASME Heat and Mass Transfer Conference, Kharagpur, 2013

20. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted:
- UGC-ASC, Jadavpur University, sponsored three-day faculty development programme on Recent Advances in Laser Technology & Its Applications, March 2013
  - TEQIP (Phase II)-sponsored two-day workshop on Advanced Welding Processes and Selection Considerations, March 2013
21. Student projects
- percentage of students who have done in-house projects including inter-departmental projects: ) 100% M. Tech. students (All students) underwent in-house projects as part of their M. Tech. Thesis (Second Year)
  - percentage of students doing projects in collaboration with other universities / industry / institute:
    - 20% M. Tech. students (Two out of ten) underwent summer internship training at Central Glass & Ceramics Research Institute, Kolkata in 2012.
    - 100% students underwent laboratory training on Spectroscopy at Indian Association for Cultivation of Science, Kolkata in 2012.
22. Awards / recognitions received at the national and international level by  
*Faculty & Doctoral Fellow*
- B. Acherjee, A.S. Kuar, S. Mitra and D. Misra, Received Most Download Paper award from Journal of Laser Technology for paper titled Modeling of laser transmission contour welding process using FEA and DoE, B. Acherjee, A.S. Kuar, S. Mitra and D. Misra,, Optics and Laser Technology, 44 (5) , pp. 1281-1289, 2012
  - B. Acherjee, A.S. Kuar, S. Mitra and D. Misra, Received Most Download Paper award from Journal of Laser Technology for paper titled Modeling and analysis of simultaneous laser transmission welding of polycarbonates using an FEM and RSM combined approach, Optics and Laser Technology, 44 (4), pp. 995-1006, 2012
  - B. Acherjee, A.S. Kuar, S. Mitra and D. Misra, Effect of carbon black on temperaturefield and weld profile during laser transmission welding of polymers: A FEM study, Optics & Laser Technology, 2012, 44 (3), 514-521. [Adjudged as one of the “Top 25 Hottest Articles” in Science Direct (Optics and Laser Technology) during October-December 2011]
23. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):
- UGC-ASC, Jadavpur University, sponsored three-day faculty development programme on Recent Advances in Laser Technology & Its Applications, March 2013
  - TEQIP (Phase II)-sponsored two-day workshop on Advanced Welding Processes and Selection Considerations, March 2013
  - Invited Talk on Short Pulse Laser Irradiation of Tissues for Therapeutic Applications by Dr. Kunal Mitra, Professor, Mechanical and Aerospace Engineering, College of Engineering and Director, Laser, Optics, and Instrumentation Laboratory, Florida Institute of Technology, Florida, USA, July 27, 2009
24. Student profile programme-wise (in the Current Semester):

| Name of the Programme<br>(refer to question no. 4) | Applications<br>received | Admitted |        | Pass percentage (w.r.t.<br>last graduating batch) |
|--|--------------------------|----------|--------|---|
|  |                          | Male     | Female |   |
| M. Tech. in Laser Technology                       | 116                      | 4        | 4      | 83.33%  |

25. Diversity of students

| Name of the Programme<br>(refer to q. no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| M. Tech. in Laser Technology                 | 0                                      | 87.5   | 12.5  | 0                                  |

26. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.  
1 out of 6 (Indian Railway Service)

27. Student progression

| Student progression             | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG                        |                             |
| PG to M.Phil.                   |                             |
| PG to Ph.D.                     | 16.66                       |
| Ph.D. to Post-Doctoral          |                             |
| Employed                        |                             |
| • Campus selection              | 1                           |
| • Other than campus recruitment | 2                           |
| Entrepreneurs                   |                             |

28. Diversity of staff

|  |      |
|--|------|
| Percentage of faculty who are graduates  |      |
| of the same university                   | 85%  |
| from other universities within the State | 15%  |
| from universities from other States      | N.A. |
| from universities outside the country    | N.A. |

29. Present details of departmental infrastructural facilities with regard to

- Library: Departmental Library and access to Central Library & Digital Library
- Internet facilities for staff and students: Internet access for all staff and students, with all PCs of the School connected to Internet
- Total number of class rooms: One
- Class rooms with ICT facility: One
- Students' laboratories: Two
- Research laboratories: One

30. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university: Doctoral Scholar: 1 (Saptashree Bose, CSIR)
- from other institutions/universities: Doctoral Scholar: 2 (i. K Paramasivan, State Fellowship, ii. S. Maity, TEQIP Fellowship)

31. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. : Yes. Brainstorming Session and Workshop were organised with Experts from IIT, Kharagpur, BIT, Mesra, CMERI, Durgapur, West Bengal University of Technology etc.

32. Does the department obtain feedback from: The M. Tech. program is only two years old. Efforts are on for modification of course curriculum.

33. List the distinguished alumni of the department (maximum 10):

- Dr. M. Sundar, Lecturer, Lecturer in Laser Material Processing, Loughborough University, UK
- Dr. K. Venkadeshwaran, HOD, Dept of Mechanical Engg, Dr. Sivanti Aditanar College of Engineering, Tiruchendur, Tamilnadu
- Dr. B. Acherjee, Assistant Professor, BIT, Deoghar
- Dr. S. Mondal, Assistant Professor, Brainware Engineering College, West Bengal

34. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Lectures by Dr. K. Shankar, Standard Aero Industries, Winnipeg, Canada, and Dr.

B. Acherjee, BIT, Deoghar, were arranged on Advanced Welding Processes and Selection Considerations, March 14-15, 2013

b. List the teaching methods adopted by the faculty for different programmes:

The teaching methods adopted in the School are:

- (a) Lecture Classes
- (b) Laboratory/practical classes
- (c) Seminar
- (d) Projects
- (e) Thesis

Evaluation is made through:

- (a) Semester Examination (3 hour duration)
- (b) Continuous evaluation in Sessional classes (Laboratory, Seminar, Term Paper)
- (c) Open Viva-Voce Examination for defence of M. Tech. Thesis

35. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The School of Laser Science & Engineering at Jadavpur University was established to carry out interdisciplinary research and impart training in the fields of laser processing of materials, development of laser systems and laser based diagnostics and measurements to cater to the needs of industries and R&D organizations at the national and international levels.

To ensure that the above objectives are constantly met and continuous monitoring is ensured through (a) the Academic Committee of the School, formed out of faculty members of different departments of the University and experts from outside and (b) continuous interaction with experts from industry and R&D and other academic institutions.

36. Highlight the participation of students and faculty in extension activities.

- a. Faculty members constantly participate in giving lectures in programs organised by other institutes.
- b. Students from neighbouring institutes such as NITTTR, Kolkata, Haldia Institute of Technology, etc., are encouraged to utilize the resources and expertise of the School.

37. Give details of “beyond syllabus scholarly activities” of the department.

Beyond the syllabus scholarly activities are encouraged through participation in inter-institutional activities by the faculty members and students of the school.

38. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

- a. The M. Tech. in Laser Technology is recognized by AICTE
- b. The Ph. D. Program is recognized by UGC

39. Briefly highlight contributions in generating new knowledge, basic or applied.

- a. The school has been able to develop materials for light weight, vibration-free optical cryocooler for potential application in space-crafts as an outcome of a BRNS sponsored project.

40. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).

*Strengths*

The School belongs to a 5-star University

Interdisciplinary faculty members

Equal emphasis on theoretical and experimental works

Motivation for carrying out works of industrial relevance

Works in the area of emerging technology



### *Weaknesses*

- No permanent faculty, as yet
- Lack of space
- Paucity of funds for maintenance of costly equipment
- Lack of laboratory facility
- Lesser access to costlier journals

### *Opportunities*

- To work in frontier area of technology
- Green manufacturing technology
- Development of high power systems for strategic applications
- Laser based monitoring systems
- Wide spread industrial application

### *Challenges*

- Development of indigenous equipment
- Fast obsolescence of technology
- Upgradation of equipment
- Upgradation of curriculum
- Keeping pace with state-of-the-art research

#### 41. Future plans of the department (in as much detail as possible):

- To develop and strengthen laboratories
- To involve faculty members from R&D organizations, such as DRDO, BARC etc.
- To interact more with industry for industrially relevant technology development
- Upgradation of curriculum and syllabus to keep pace with needs of industries

## School of Materials Science & Nanotechnology

1. Name of the School: MATERIALS SCIENCE & NANOTECHNOLOGY
2. Year of establishment: 1988
3. Faculty to which the School is attached: FISLM
4. Names of programmes offered: Post Graduate and Ph.D.
5. Interdisciplinary programmes being conducted and other departments involved: Metallurgical and Materials Engg, Electronics and Communication Engg, Mechanical Engg, Electrical Engg, Power Engg, Printing Engg, Physics, Chemistry.
6. Courses in collaboration with other universities, industries, foreign institutions, etc: Dual Ph. D. programme with Virginia Tech. (USA), University of Ulster (UK).
7. Examination system: Semester (1<sup>st</sup> year) and one-year project (2<sup>nd</sup> year)
8. Number of teaching posts sanctioned, filled:

|                              | Sanctioned | Filled | Actual (including CAS & MPS) |
|------------------------------|------------|--------|------------------------------|
| Professor                    |            |        |                              |
| Associate Professor          | 1          | 0      | 0                            |
| Asst. Professor              | 2          | 0      | 0                            |
| Asst. Professor, contractual | 2          | 2      | 2                            |

9. Faculty profile with name, qualification, designation, area of specialisation, experience and research under guidance:

| Name                   | Qualification | Designation                   | Specialization                              | Years of Experience | PhD/MTech students, last 4 years   |
|------------------------|---------------|-------------------------------|---|---------------------|--|
| Prof. M.K. Mitra       | M. Tech       | Professor                     | Physical metallurgy, Materials Science      | 37                  |  |
| Prof. G.C. Das         | Ph.D.         | Professor                     | Materials Design                            | 30                  | Ph.D.: 4 completed<br>8 (on-going)<br>MTech: 21 (completed) 3 (on going)                 |
| Prof. S. Mukherjee     | Ph.D.         | Professor                     | Extractive metallurgy and Materials Science | 33                  | PhD: 12 completed<br>7 (on-going)<br>MTech: 23 (completed) 3 (ongoing)                   |
| Dr. K.K. Chattopadhyay | Ph.D.         | Asso. Professor               | Nanomaterials                               | 17                  | PhD: 9 (completed);<br>submitted: 3<br>8 (on-going)<br>MTech: 27 (completed) 8 (ongoing) |
| Dr. M. Ghosh Chaudhury | Ph.D.         | Asst. Professor (contractual) | Nanomaterials                               | 6                   | Ph.D: 3 (on-going)<br>M. Tech: 10 (completed) 2 (ongoing)                                |
| Dr. C.K. Ghosh         | Ph.D.         | Asst. Professor (contractual) | Nanomaterials                               | 4                   | Ph.D.: 3 (on-going)<br>M. Tech: 11 (completed) 2 (ongoing)                               |

10. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors, etc.:
  - I. Dr. Amarnath Sen, Sr. Scientist, Central Glass and Ceramic Research Institute
  - II. Dr. P.C. Banerjee, Retd. Sr. Scientist, Indian Institute of Chemical Biology
  - III. Prof. Joyesree Ghosh, Retd. Professor, Indian Institute of Technology, Kharagpur
  - IV. Prof. Srikanta Bandyopadhyay, University of New South Wales, Sydney
11. Percentage of classes taken by temporary faculty – programme-wise information:
 

M. Tech. in Nano Science and Technology: 60% in the first semester  
75% in the second semester

12. Programme-wise Student Teacher ratio:  
M. Tech. in Nano Science and Technology: 3: 1
13. Number of academic support staff (technical and administrative staff:
- |                | Sanctioned | Filled |
|----------------|------------|--------|
| Technical      | 3          | 3      |
| Administrative | 1          | 1      |
14. Research thrust areas as recognised by major funding agencies: Nanoscience & Technology
15. Number and names of faculty with on-going projects from a) national b) international funding agencies and c) total grants received. Give the names of the funding agencies, project titles and grants received project-wise:  
Please see Annexure
16. Publications: For details please see Annexure  
Number of papers published in peer review journals (national / international):  
Total Number of published paper in International journals (since 2008): 196  
Total Number of published paper in Int./National Conf. Proceeding: > 120  
Citation Index – range / average: highest citation of a paper 139, >5(average)  
SNIP:  
SJR:  
Impact Factor – range / average: 1 – 7 (range)  
h-index: 8 - 27
17. Areas of consultancy and income generated: In the areas of using carbon nanostructure in improving properties of products with SAIL RDCIS and M/S Balmer Laurie Co.
18. Faculty selected nationally/ internationally to visit other laboratories / institutions / industries in India and abroad (give details):  
*Prof. S. Mukherjee*, IISc, Bangalore (2012), IT-BHU, Banaras (2012), NML Jamshedpur (2010).  
*Dr. K.K. Chattopadhyay*, visiting Professor, Hanyang University, South Korea - 2008  
*Prof. M.K. Mitra*, *Prof. S. Mukherjee* and *Dr. K.K. Chattopadhyay* – Visited University of Ulster, UK (2010)  
*Prof. M.K. Mitra*, *Prof. S. Mukherjee* and *Dr. K.K. Chattopadhyay* SAIL – RDCIS 2013.
19. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)  
*Dr. K.K. Chattopadhyay* – Editorial Board member of Indian Journal of Physics and Physics Express.  
*Dr. K.K. Chattopadhyay* -International Project evaluation member: EU projects and Ministry of Science and Technology, Singapore
20. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted:  
1. Refresher course “Recent Developments in Nanoscience and Nanotechnology”, September 2013  
2. Refresher course “Recent Developments in Nanoscience & Technology”, September-October 2010.  
3. Refresher course “Recent Perspectives on Nanoscience & Technology”, December 2008.  
4. Industry- Institute interaction meeting for use of Nanotechnology in Refractories for steel making, July 2013.

21. Student projects

|             | percentage of students who have done in-house projects including interdepartmental projects | percentage of students doing projects in collaboration with other universities / industry / institute |
|-------------|---|---|
| 2008 - 2009 | 40  | 60  |
| 2009 - 2010 | 85  | 15  |
| 2010 - 2011 | 79  | 21  |
| 2011 - 2012 | 75  | 25  |
| 2012 - 2013 | 95  | 5   |

22. Awards / recognitional received at the national and international level by faculty / doctoral / post-doctoral fellows students (give details):

*Dr. K.K. Chattopadhyay* – Materials Research Society of India Medal (MRSI Medal)  
*Nilesh Majumder and K.K. Chattopadhyay* – Best poster Award, DAE Solid State Physics Symposium, 2012

*Mr. Nilesh Majumder (and Dr. K.K. Chattopadhyay)* – MRSI Yong Scientist Award  
*Mr. Uttam Kr. Ghorai (and Dr. K.K. Chattopadhyay)* – MRSI Yong Scientist Award

23. Seminars / Conferences / Workshops organised and the source of funding (national / international) with brief details (mention any notable feature):

2010:

International Conference on Fundamental and Applications of Nanoscience & Technology, ICFANT – 2010

Funding Agencies:

Council of Scientific and Industrial Research  
Department of Science and Technology, Govt. of India  
Jadavpur University UGC Unassigned Grant  
Defence Research and Development Organisation  
Board of Research in Nuclear Sciences  
Indian Association for the Cultivation of Science  
Saha Institute of Nuclear Physics

2011:

India-Australia International Workshop on Nanotechnology In Materials and Energy Application, IAWNT – 2011

Funding Agencies:

Council of Scientific and Industrial Research  
Department of Science and Technology, Govt. of India  
Jadavpur University UGC Unassigned Grant  
Defence Research and Development Organisation  
India Institute of Ceramics  
Saha Institute of Nuclear Physics  
University Grant Commission

2012:

International Workshop on Nanomaterials: Electron and phonon transport, IWoN-12, 14-15<sup>th</sup> December, 2012

Funding Agencies:

AOARD, USA  
TEQIP

DST-PURSE

UGC-Unassigned grant

24. Student profile programme-wise (in the current Semester):

| Name of the Programme                 | Applications received | Admitted |        | Pass percentage { w.r.t. last graduating batch } |        |
|---------------------------------------|-----------------------|----------|--------|--|--------|
|                                       |                       | Male     | Female | Male   | Female |
| M. Tech. in Nano Science & Technology | 281                   | 13       | 3      |  |        |

25. Diversity of students

| M. Tech. in Nano Science & Technology | % of students from the same university | % student from other university within the state | % student from universities outside the state | % student from other countries |
|---------------------------------------|--|--|---|--------------------------------|
| 2008 – 2009                           | 0                                      | 75   | 25  |                                |
| 2009 – 2010                           | 13                                     | 87   | 0   |                                |
| 2010 – 2011                           | 0                                      | 87   | 13  |                                |
| 2011 – 2012                           | 0                                      | 75   | 25  |                                |
| 2012 – 2013                           | 0                                      | 93   | 7   |                                |

| Student progression           | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG                      | NA                          |
| PG to M. Phil                 | NA                          |
| PG to PhD                     | 60%                         |
| PhD to Post-Doctoral          | 12%                         |
| Employed                      | 100%                        |
| Campus Selection              | 50%                         |
| Other than campus recruitment | 50%                         |
| Entrepreneurs                 | ---                         |

26. Student progression

Students are getting chance for PhD in different institutes, universities on regular basis and they are successfully doing their job in various departments etc.

27. Diversity of staff

| Percentage of faculty who are graduates  |      |
|--|------|
| Of the same university                   | 50%  |
| From other universities within the state | 50%  |
| From universities other than state       | None |
| From universities outside the country    | None |

28. Number of faculty who were awarded M. Phil, Ph. D., etc. during the assessment period: Ph.D.: 2; Mahua Ghosh Chaudhuri (2010), Chandan Kumar Ghosh (2010)

29. Present details of departmental infrastructural facilities with regard to

- Library: nearly 600 books in the library
- Internet facilities for staff and students: nearly 50 internet and wi-fi facility
- Total number of class rooms: 01
- Class rooms with ICT facility: 01
- Student laboratories: 07
- Research laboratories: 07

30. List of doctoral, post-doctoral students and Research Associates: Please see Annexure

31. Number of post graduate students getting financial assistance from the university (Give details.): Eighteen students in each year from 2008 to 2011; Thirteen students in each year, from 2012 onwards.

32. List the distinguished alumni of the department (maximum 10)

- Amlan Dutta, Scientist, SN Bose institute
- Sonal Mazumder, PhD., Verginia Tech. University
- Geeta Rani Mutta, PhD., France
- Srinivasan Popuri, PhD., France
- Sk. Ziaur Rahaman, PhD., Engineer, ITRI, Taiwan
- Arnab Shankar Bhattacharya, Asst. Professor, Central University, Jharkhand

7. Diptonil Banerjee, Asst. Professor, Aca. Of Tech., WBUT
8. Amit Prakash, PhD, Taiwan
9. Sayani, Asst. Professot, Andhra Pradesh
10. Saurav Chakraborty. Asst. Professor, Andhra Pradesh
33. List the teaching method adopted by the faculty for different programmes.  
Class room teaching; Laboratory-based experimental classes; Seminar presentations by the students; Tutorial lectures; Audio-visual lectures.
34. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?  
On the basis of student – teacher interaction.
35. Highlight the participation of student and faculty in extention activities.  
Faculties are attached with various professional bodies like Materials Research Society of India, Indian Institute of Ceramics, Indian Institute of Metals
36. State whether the programme / departments is accredited / graded by other agencies?  
If yes, give details.: AICTE, UGC, NAAC
37. Briefly highlight contributions in generating new knowledge, basic or applied.  
Continuous efforts are given by the school to generate knowledges in the basic as well as applied research in the field of Nanoscience and technology.
38. Details five major strengths, Weakness, Opportunities and Challenges (SWOC).  
*Strengths*  
Involvement of highly qualified faculty members with strong motivation for research and teaching  
Nationally recognised course curriculum for the M.Tech programme  
Excellent research facility  
Internationally and nationally research collaboration  
Interdisciplinary research activity  
Technology oriented research collaboration with industries  
*Weaknesses*  
Overall space limitation  
Limited number of faculty  
Limited availibility of annual cost to run and maintain the equipment  
*Opportunities*  
Increasing global market and opportunities for Nanotechnology products  
Industrial collaboration for applied research  
*Challenges*  
Guiding nanotechnology for social benefits  
Actual product development for practical use
39. Future plans (in as much detail as possible):  
The School of Materials Science and Nanotechnology aims to become national knowledge hub for Nanotechnology oriented research both for the fundamental research and technology development research. The School also has plan to create Centre of Excellence for fabrication of Nano devices particularly in the areas of transparent electronics; graphene based display devices and energy harvesting devices. Creation of Clean room facilities with sophisticated lithographic equipment including focussed ion beams will be necessary for the complete fabrication of Nanodevices. The school also has a plan to create manpower development programme through introduction of Bachelor programme in nanoscience and Technology and also through Integrated M.Tech-Ph.D (5 years) programme. To achieve the above goals continuous financial support is extremely necessary.

## School of Media, Communication and Culture

1. Name of the School: MEDIA, COMMUNICATION AND CULTURE
2. Year of establishment: 1989
3. Faculty to which attached: FISLM
4. Names of programmes offered:  
UGC-approved 6-month Certificate Course on 'Radio Production'; Two undergraduate extra-departmental courses: 'Studies in Cultural Processes A' (Semester 3) and 'Studies in Cultural Processes B' (Semester 4); PhD
5. Interdisciplinary programmes being conducted and other departments involved:  
All the programmes mentioned under (4) above and various projects undertaken by the School are inter-disciplinary, involving expertise from the Departments of Film Studies, English, International Relations, Sociology, Comparative Literature, Bengali, Sanskrit, Philosophy, History, Economics, School of Education Technology, School of Cultural Texts and Records and many others.
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: The UGC-sponsored certificate course on 'Radio Production' utilizes the expertise of teachers from other universities and professionals from the radio and the media industry. Teachers from other universities offer theoretical classes. Industry professionals offer practical classes and guide the students during internship with various radio stations.
7. Examination System: Annual/Semester/Trimester/Choice Based Credit System: Semester
8. Participation of the department in courses offered by other departments:  
The School doesn't have any permanent faculty member and office-bearer. Its Director, Joint Director and most of its Academic Committee members are from various departments of the university. They take a leading part in designing courses involving components of media, mass communication and cultural studies offered by other departments of the university. They have also been teaching in various media and culture-related courses eg., 'Media and Communication Studies: An Introduction', 'Globalization, Culture and the Indian Media', 'Film and Literature', and various components under 'PG Diploma in Mass Communication', M.Phil. in Women's Studies, Refresher courses offered by almost all the departments in the Arts faculty.
9. Faculty profile:

| Name               | Qualification | Designation  | Specialization   | Years of Experience | PhD/MPhil students, last 4 years |
|--------------------|---------------|--|--|---------------------|----------------------------------|
| Partha Pratim Basu | PhD           | Professor, Department of International Relations;<br>Director 2010-13    | Media and politics;<br>South Asian politics; India's foreign policy;<br>Human Rights | 26                  | 8                                |
| Nilanjana Gupta    | PhD           | Professor, Department of English;<br>Director 2008-10                    | Contemporary Fiction; Cultural Practices; Higher Education                           | 22                  | 9                                |
| Dalia Chakraborty  | PhD           | Associate Professor, Department of Sociology;<br>Jt. Director 2011-13    | Cultural Studies;<br>Visual Sociology<br>Applied Sociology                           | 19                  | 2                                |
| Abhijit Roy        | MA            | Associate Professor, Department of Film Studies;<br>Jt. Director 2008-11 | Television Studies,<br>Media Theory,<br>Popular Culture                              | 16 yrs              | Nil                              |

None of the above persons works permanently or whole-time for the School. They are experts in the field of media, communication and culture, but primarily affiliated to the departments mentioned above. They work for

the School after fulfilling their commitment to their respective departments. The School does not have a permanent faculty position, a major impediment for carrying out smoothly the wide range of activities of the School. Courses are taught by 9 teachers from Jadavpur University and 17 from outside the University. PhD research and research under projects are all supervised by teachers from Jadavpur University.

10. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:
  - a) Prof. Sanjeev Chatterjee, University of Miami
  - b) Dr. Biswarup Sen, University of Oregon
  - c) Dr. Pallabi Chakravorty, Swathmore College, USA
  - d) Prof. Abhijit Mitra, Department of Sociology, University of Burdwan
  - e) Prof. John Hutnyk, Academic Director, Goldsmiths College, University of London
  - f) Prof. Debra Castillo, Department of Comparative Literature and Romance Studies, Cornell University, USA
  - g) Jonathan Shainin, Senior Editor, *The Caravan* magazine
11. Percentage of classes taken by temporary faculty – programme-wise information:  
The School does not have any permanent or temporary (i.e. contractual) teaching faculty. It runs its courses partly by permanent teachers of the university primarily affiliated to other departments and partly by teachers from outside the university who work on pay-per-class basis. The percentage of teachers who work on such basis are 65%.
12. Programme-wise Student Teacher Ratio:  
UGC-sponsored certificate course on 'Radio Production': 3:2  
UG Extra-Departmental courses: 4:1  
PhD: No course work offered
13. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual: There are no sanctioned posts for academic support staff (technical) or administrative staff. The School avails of the service of one Office Assistant (casual). The Office Assistant is paid from the annual grant for the School provided by Jadavpur University.
14. Research thrust areas as recognized by major funding agencies:
  - Media, consumerism and globalization
  - Media in development and modernization
  - Community Radio movement in India
  - Indian television
  - Media policy
  - Media and public opinion in India
  - Multimedia reporting and alternative forms of journalism
  - Internet and network cultures
  - New urban spaces
  - Madrasah education in India
  - Performing arts and communication
  - Child rights and child issues
15. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

*Principal Investigator: Nilanjana Gupta*

|                               |                          |
|-------------------------------|--------------------------|
| i) Child Radio Reporter       | UNICEF (Rs.18.45 lakhs)  |
| ii) Social Networks           | UGC-UPE II (3.145 lakhs) |
| iii) Community Radio          | UGC-UPE II (2.915 lakhs) |
| iv) Performance               | UGC-UPE II (3.865 lakhs) |
| v) Madrasa                    | UGC-UPE II (6.915 lakhs) |
| vi) Online Humour             | UGC-UPE II (.5 lakhs)    |
| vii) East Bengal Club         | UGC-UPE II (.5 lakhs)    |
| viii) Women Speaking to Women | DST, GoI (1.3 lakhs)     |



*PI: Nilanjana Gupta; Co-PI: Dalia Chakrabarti*

i) Acropolis UGC-UPE II (3.365 lakhs)

*PI: Nilanjana Gupta; Co-PI: Abhijit Roy*

i) Media and Public Opinion UGC-UPE II (2.965 lakhs)

ii) 'New Media for Change: Multimedia stories on under-reported issues' UGC-UPE II (12.93 lakhs)

*PI: Parthasarathi Bhaumick*

i) Calcutta Soundscape UGC-UPE II (2.9 lakhs)

16. Inter-institutional collaborative projects and associated grants received

*National collaboration*

(i) 'Development of editorial and publishing skills for under-privileged children of Calcutta studying in informal schools and publication of a children's magazine', in collaboration with Vikramshila Education Resource Society, Calcutta: Rs.3 lakhs.

(ii) 'Baseline Survey and Capacity Building Workshop on Science for Women's Health and Nutrition', in collaboration with the Department of Science and Technology, Govt. of India: Rs.1.3 lakhs.

*International collaboration*

(i) 'Community Radio Child Radio Reporter' in collaboration with the UNICEF: Rs.18.45 lakhs

(ii) 'Multi-media reporting for the world's most under-reported issues' in collaboration with the Knight Center for International Media, University of Miami, United States: Rs. 26 thousand.

(iii) Training programme for community radio professionals in Bangladesh, in collaboration with Commonwealth Educational Media Centre for Asia (CEMCA): Rs.1.67225 lakhs

(iv) 'Broadcast of BBC radio programmes on 90.8 Community RadioJU', in collaboration with the British Broadcasting Corporation: No monetary grant; permission to broadcast select programmes free of cost granted by BBC.

(v) 'East Kolkata Wetlands: A 360° View', in collaboration with the United States-India Educational Foundation'. The grant was spent through the Visiting Lecturer, Prof. Sanjeev Chatterjee of University of Miami, who affiliated his Fulbright-Nehru Visiting Lectureship project to the School.

In addition to the above, collaboration for organizing seminars/conferences/workshops were made with the following organizations:

- Media Information and Communication Centre of India (MICCI)
- Friedrich Ebert Stiftung, Germany
- National Library, Calcutta
- Kolkata Literary Festival
- Maulana Abul Kalam Azad Institute of Asian Studies, Calcutta
- Jadavpur Association of International Relations, Calcutta
- Valerian Soccer Foundation, India
- Ramakrishna Mission Blind Boy's Academy
- Various non-government organizations like VAANI, REACH, Lighthouse for the Blind and Voice of the World, all based in India.

17. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (Give details.)

1. UGC-sponsored 6-month course on 'Radio Production', funded under 'UGC Career Oriented courses' of 11<sup>th</sup> plan: Rs. 10 lakhs

2. Baseline Survey and Capacity Building Workshop on Science for Women's Health and Nutrition, funded by DST, Govt. of India: Rs. 1.3 lakhs
18. Publications: See Annexure
- \* Number of papers published in peer reviewed journals (national / international): 12
  - \* Monographs: 4
  - \* Chapters in Books: 15
  - \* Edited Books: 4
  - \* Books with ISBN with details of publishers: 8 (Please see ANNEXURE I for details)
  - \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
  - \* Citation Index – range / average
  - \* SNIP
  - \* SJR
  - \* Impact Factor – range / average
  - \* h-index
19. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):
1. Ipshita Chanda (Member, Academic Committee), selected as ICCR Visiting Professor, Department of English, Georgetown University, Washington DC, USA.
  2. Partha Pratim Basu (Director), selected as Fulbright Visiting Lecturer, Center for Asian Democracy (Department of Political Science), University of Louisville, Louisville, Kentucky, USA.
  3. Abhijit Roy, (Jt. Director, 2008-2011), Visiting Scholar, Indian Institute of Advanced Study, Shimla, July, 2009
  4. Nilanjana Gupta (Director, 2008-10) visited Rutgers University, New Jersey, USA, for collaboration on courses in 'South Asian Media', 2010.
20. Faculty serving in
- a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)

Following is a list relating to persons who have been Directors and Joint Directors of the School from April 2008 to March 2013:

*Partha Pratim Basu*

- i. Chairperson, Syllabus Committee of Political Science, Sikkim University.
- ii. External Member, Departmental Research Committee, Department of Political Science, Kalyani University
- iii. External Member, M.Phil Committee in Political Science, Calcutta University and Vidyasagar University.
- iv. External Member, PG Board of Studies in Political Science, Burdwan University
- v. External Member, UG Board of Studies in Political Science, Kalyani University and Ramakrishna Mission Vidyamandira, Belur (Autonomous College)
- vi. Editor, *Jadavpur Journal of International Relations*, 2010-13.

*Nilanjana Gupta*

- i. Chairperson, Syllabus Committee of Sikkim University
- ii. External Member of Board of Studies in English, Visva-Bharati University
- iii. Member of Senate, NIT Agartala
- iv. Vice-Chancellor's nominee at Faculty of Humanities & Management, BESU

- v. External Member of Board of Studies in English, West Bengal State University
- vi. Member of Syllabus Committee for West Bengal Civil Services Examination
- vii. Subject Expert for English at UGC-North-East Region for Research Projects
- viii. Subject Expert for UGC-UKIERI Project Reviews at UGC, New Delhi
- ix. Subject Expert for UGC Review of DSA proposals, New Delhi
- x. 'Envisioning the Indian City: Spaces of Encounter' (Steering Group Member) UGC-UKIERI.

*Abhijit Roy*

- i. Member, Board of Postgraduate Studies, Department of Mass Communication, Assam University Silchar
- ii. Member, Library Committee, Satyajit Ray Film and Television Institute, Calcutta
- iii. Member, Board of Studies, Department of Mass Communication and Videography, St. Xavier's (Autonomous) College, Calcutta
- iv. Member, Board of Undergraduate Studies in Film Studies, University of Kalyani
- v. Member, editorial board, *Journal of the Moving Image*
- vi. Chairman, College Inspection Committee for Film Studies undergraduate courses, West Bengal State University
- vii. Member, Academic Committee, School of Women's Studies, Jadavpur University
- viii. Member, Information Technology Infrastructure Committee, Jadavpur University
- ix. Member, Students' Welfare Board, Jadavpur University
- x. Member, Anti-ragging committee, Jadavpur University

*Dalia Chakrabarti*

- i. Member of Court, Jadavpur University, till 12.03.13
- ii. Member, Faculty Council of Arts (the old one, forgotten the yr. of its dissolution, may be 2012), Jadavpur University
- iii. Member, Doctorate Committee, Faculty of Arts, Jadavpur University
- iv. Member, Academic Committee, Centre for Counseling Services and Self Development, Jadavpur University
- v. Member, Academic Committee, School of Women's Studies, Jadavpur University
- vi. Member of editorial Board, Jadavpur University Journal of Sociology
- vii. Member of Board of Studies, Department of Human Development and Family Studies, J D Birla Institute, Kolkata
- viii. Coordinator, Career Oriented Programme on Applied Sociology (UGC approved and funded), Jadavpur University

21. Student projects

- percentage of students who have done in-house projects including inter-departmental projects 15% (students from the 'Radio Production' certificate course, two undergraduate extra-departmental courses and the PhD students of the School)
- percentage of students doing projects in collaboration with other universities / industry / institute: 7% (approximately)

22. Awards / recognitions received at the national and international level by

- Faculty
  - a) Partha Pratim Basu (Director), selected as Fulbright Visiting Lecturer, Center for Asian Democracy (Department of Political Science), University of Louisville, Louisville, Kentucky, USA.
  - b) Ipshita Chanda (Member, Academic Committee), selected as ICCR Visiting Professor, Department of English, Georgetown University, Washington DC, USA.
  - c) Abhijit Roy (Joint Director, 2008-11) received 'Visiting Scholarship' from the Indian Institute of Advanced Study, Shimla, July 2009.

- d) Dalia Chakrabarti (Joint Director, 2011-13), received the M N Srinivas Memorial Prize (from the Indian Sociological Society and ICSSR) for best paper of the year, December 2011
- e) Nilanjana Gupta, Coordinator of the project 'Child Radio Reporter': The programme *Para Diary* under this UNICEF project 'Child Radio Reporter' won the 'National Community Radio Award, 2012' (3<sup>rd</sup> prize) for 'most creative/innovative programme content'.
- f) Abhijit Roy, Coordinator of the project 'Multi-media reporting for the world's most under-reported issues': A multimedia story made under this project in collaboration with the Knight Center for International Media, University of Miami was part of 'My Story, My Goal', a series of 7 documentaries telling stories that personalize the United Nations Millennium Development Goals. 'My Story, My Goal' won the Online Journalism Award, student category, 2010, announced in October 30, 2010. The Online Journalism Awards, administered by the Online News Association, honour excellence in digital journalism around the world. Please log on to <http://mdg.glocalstories.org/education.php> for the award-winning video made by the School.

- Doctoral / post doctoral fellows
- Students (Give details)

23. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features): See Annexure

24. Student profile programme-wise (in the Current Semester):

| Name of the Programme   | Applications received | Admitted<br>Male    Female | Pass percentage (w.r.t. last graduating batch)<br>Male/Female |
|---|-----------------------|----------------------------|---|
| Radio Production  | 289                   | 16      15                 | 80%/88%   |
| Studies in Cultural Processes A & B<br>(two undergraduate extra-departmental courses) | 18                    | 6      8                   | 100%/100%   |
| PhD (No coursework offered)   | 19                    | 0      3                   |   |

25. Diversity of students

| Name of the Programme | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|-----------------------|--|--|---|------------------------------------|
| Radio Production      | 48%                                    | 52%  | nil   | nil                                |
|                       |  |  |   |                                    |
| PhD                   | 80                                     | 20   | nil   | nil                                |
|                       |  |  |   |                                    |

26. Present details of departmental infrastructural facilities with regard to

- a) Library: No separate library; books are stacked in Almirahs in the office; 550 books
- b) Internet facilities for staff and students: 14 computers with internet connection
- c) Total number of class rooms: 1
- d) Class rooms with ICT facility: 1 (the only classroom)
- e) Students' laboratories: Nil
- f) Research laboratories: Nil

27. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university

Doctoral students  
 Amolina Roy  
 Rajdeep Roy  
 Mukulika Duttagupta  
 Suchetana Banerjee

b) from other institutions/universities

Ananya Chatterjee

28. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

We have been proposing introduction of M.Phil. in 'Media and Cultural Studies' to the UGC over the last few years, along with requests to grant the required number of teaching posts. This has not been granted to us as yet. A number of meetings have been held during the period 2008-2013 to discuss the syllabus and modus operandi of this proposed programme.

29. Does the department obtain feedback from

faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

A day-long meeting and workshop was held in 2008 for designing the 'Cultural processes' UG extra-departmental courses before their introduction, with participation by faculty members from the university and outside. Further, regular meetings with teachers are held to obtain feedback about courses. The School has thoroughly revised the syllabus of its 'Radio Production' course from 2013.

students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

De-briefing sessions are held at the time of distribution of certificates for the Radio Production Course. Regular discussion with students of all three programmes helps us revisit our strategies for the next session.

alumni and employers on the programmes offered and how does the department utilize the feedback?

There is no formal mechanism as yet.

30. Give details of student enrichment programmes involving external experts.

All seminars, conferences, talks and most of the workshops listed above were open to students.

31. List the teaching methods adopted by the faculty for different programmes.

Lectures are combined with power point and visual presentations whenever necessary. A special emphasis is laid on the research-oriented dissertation mandatory for the students of one of the two under-graduate extra-departmental courses. One teacher from the university is assigned for guiding every student in methodology and research. The teacher helps the student in fieldwork and offers special classes. The 'Radio Production' course utilizes, for its practical classes, the studio of the University's Community Radio, managed by the School. The School, as a whole emphasizes the need to combine theoretical and practical classes with contemporary research-based knowledge, fieldwork and creativity.

The School, under its UGC-UPE project called 'New Media for change: Multimedia stories on under-reported issues', has been experimenting with an alternative mode of pedagogy in which an inter-disciplinary group of students of the University get the opportunity to explore city spaces for intense fieldwork and research, and combine that experience with skills of digital documentation and web-based communication. A group of students and teachers from various departments of Jadavpur University, Kolkata, has been trying to document the book-binding industry of Calcutta, located primarily in ward no.37 of the city. Since August, 2012, they are interviewing people connected with this informal labour sector, from workers, suppliers and owners to publishers, union leaders and experts in the field, and trying to capture the many nuances of life, labour and human stories in *Daftaripara*, as the area is popularly known. The website

(www.daftaripara.org) launched from this project contains text, data, sound, images, artwork and videos, and continue to grow.

32. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Through

De-briefing sessions held at the time of certificate distribution for the Radio Production Course.

Informal but regular contacts among Principal/Co-investigators of projects and the project fellows.

Attendance recording for students and teachers have been made mandatory.

No student is allowed to take final examination without the requisite percentage of attendance.

Study material is handed over to the students in advance of concerned class.

Special/remedial sessions are held for students who lag behind.

Strict procedures of written and oral admission tests have been introduced.

Emphasis is laid on reading-based discussions, practical sessions and fieldwork.

33. Highlight the participation of students and faculty in extension activities.

Students and faculty participated in the following extension activities of the School:

- a) The School helped set up and manages the Community Radio of Jadavpur University (90.8 RadioJU).
- b) It organized workshops to impart training regarding management and operation of Community Radio to Community Radio professionals from India and abroad.
- c) It runs the unique project 'Child Radio Reporter' and published a magazine named *Dhitang*, both involving underprivileged children studying in informal schools, in collaboration with the UNICEF and Vikramshila Education Resource Society, a Kolkata-based NGO, respectively.
- d) It conducted training-oriented workshops for children on child rights, drama therapy, research and content development for radio; and developing skills of writing, editing and publishing in connection with the above projects.
- e) It undertook survey in the slum areas of Calcutta and organized workshops on 'Science for Women's Health and Nutrition'.

34. Give details of "beyond syllabus scholarly activities" of the department.

- a) The School organized deliberations/workshops on the development of alternative mode of teaching and research in Cultural Studies.
- b) The Director, Joint Director and the Academic Committee members have helped the development of curriculum concerning media and cultural studies in various Indian institutions.
- c) It forwarded its recommendations before the Sachar Committee as a follow-up to the 'Madrasa Education in West Bengal' project. Its office-bearers and Academic Committee members also participated in discussions on the Verma Commission's proceedings relating to atrocities on women.
- d) The themes of most of the seminars, workshops organized and projects undertaken by the School have distinct social overtones including representation of child-related issues in the media, public opinion and the media, primary education, environmental degradation, impact of the new media on cultural change to name a few.

35. Briefly highlight contributions in generating new knowledge, basic or applied.

The School has always emphasized the need to experiment and move beyond the conventional confines of the classroom to generate basic and applied knowledge. Teachers of the university associated with the School have ensured that their fieldwork

and research are published in the form of books. Many of these books are often used as reference material in various universities. Research articles written by them in peer-reviewed journals and their participation in seminar and conferences have also contributed immensely to the generation of new knowledge. In addition to these, some of our endeavors towards generation of new knowledge are as follows:

a. The School, under its UGC-UPE project called 'New Media for change: Multimedia stories on under-reported issues', has been experimenting with an alternative mode of pedagogy in which students get the opportunity to explore city spaces for intense fieldwork and research, and combine that experience with skills of digital documentation and web-based communication. A group of students and teachers from various departments of Jadavpur University, Kolkata, has been trying to document the book-binding industry of Calcutta, located primarily in ward no.37 of the city. Since August, 2012, they are interviewing people connected with this informal labour sector, from workers, suppliers and owners to publishers, union leaders and experts in the field, and trying to capture the many nuances of life, labour and human stories in *Daftaripara*, as the area is popularly known. The website ([www.daftaripara.org](http://www.daftaripara.org)) launched from this project, containing text, data, sound, images, artwork and videos, have become a rich repertoire of resources for scholars working in the fields of experimental pedagogy, alternative media, book-history and informal labour studies. A number of book-history scholars renowned worldwide appreciated the Daftaripara initiative on SHARP-L, the online discussion forum of Society for the History of Authorship, Reading, and Publishing.

b. The 'Community Radio Child Radio Reporter' project of the School has become the flagship project of the UNICEF's media-related projects. It has been able to make original contribution to the discourses on child rights and child issues in India. The innovations in the project were acknowledged when the programme *Para Diary* under this project won the 'National Community Radio Award, 2012' for providing the 'most creative/innovative programme content'. Please see <http://www.communityradio.in/take-a-call-on-radio.htm#.Uk1RYYZmiSo> and <http://infochangeindia.org/children/stories-of-change/radio-reporters-of-jadavpur.html> for details on the contribution of the project in generating new knowledge.

c. Undertaking a huge survey in the slum areas of Calcutta, the School's report on women's health, nutrition and sanitation in 2011-12 helped the Central government in devising policy on such key issues. The survey and workshops aimed at development of awareness and training programmes for women from slums were funded by the Department of Science and Technology, Govt. of India.

d. A great deal of applied knowledge of literary editing and publication was generated for a large number of under-privileged children of Calcutta through training and workshops between 2010 and 2012. The series of workshops was part of a project in collaboration with Vikramshila Education Resource Society, Kolkata. The children got actively involved in the production of a magazine called *Dhitang*.

e. The School has become the nodal centre for training of professionals working in the field of community radio in India and Asia. A large number of professionals have been trained in the theoretical and practical aspects of setting up and running community radio.

f. New basic and applied knowledge have been generated through the School's certificate course on Radio Production. This is a unique course in India that imparts quality education and training for young people who wish to work in the Radio industry. In this way, the School acts as a key site for the generation of quality human resource in the field of radio.

g. A look into the list of publications by the School's members and those out of School's projects (Please see Annexure 1) would reveal that new knowledge has been generated in the field of postcolonialism, globalization, North-South relations, history of social reform, dance and performance studies, cultural studies and television studies. Contributions as book chapters and journal publications also contribute to the above fields and various others like Media Studies, Cultural Studies, Urban Studies, Sociology, Political Theory and International Relations.

### 36. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).

#### *Strengths*

The strength of the School lies in its ability to amalgamate research and critical reflections on Media with creative practices. Projects have always been undertaken with a view to meaningfully intervene into actual practices and not merely to add to an existing oeuvre of research that simply hovers around classroom lectures.

A small but highly motivated and dedicated faculty drawn from various media, literature and social science departments together with project fellows has ensured a steady output of high quality research and allied academic activities. The contribution of the faculty is all the more commendable because they work for the School due to their commitment to inter-disciplinary research and emergent research agendas. There is no monetary or any other benefit for these teachers primarily affiliated to other departments of the university.

The School has always attracted regular inflow of funds from both governmental and nongovernmental sources for holding its programmes over and above the financial support extended by the university. The grants to the School under UGC-UPE Phase II have substantially enhanced evidently in recognition of the quality work produced under Phase I of the Programme.

The School has successfully combined its academic pursuits with a career-oriented thrust which led to the introduction of the Radio Production Course. The growing popularity of the course was borne out by the fact that in a matter of years, the course has outlived its initial UGC- supported format to emerge as a full-fledged self-financed programme.

In the process of carrying out various projects, the School has developed a strong social connect and an extensive network with NGOs working in diverse social fields which further reinforced its penchant for social intervention.

#### *Weaknesses*

The School does not till date have any permanent faculty of its own which badly affects its academic activities.

Given the success of the school in significantly contributing to research on media and culture in India and abroad, the School should now offer full-time Masters and M.Phil Courses in Media and Cultural Studies. This is the only way the quality research and pedagogic tools produced by the School can be shared with a wider community and can be utilized for generation of quality human resource. Lack of Masters and M.Phil courses is a serious impediment to full utilization of the School's



expertise and output.

The School suffers from severe shortage of space so much so that the sole class/seminar room has to double up as the working space for the project fellows. As on March 31, 2013, all the 14 persons affiliated to the School can't be provided separate working cubicles.

Infrastructure such as library and computer facilities have to enhance.

The day-to-day functioning of the School is badly hamstrung by the lack of sanctioned posts of support staff.

### *Opportunities*

One of the biggest opportunities of the School is to take advantage of the new form of Media and Communication Studies the world over brought about by digital technologies and inter-disciplinary interventions. It has presented the possibility of making the school a key hub for such interface of knowledge, skills and technologies. This way, the School has the opportunity of further upgrading itself from its current status of a key centre for research in India to place itself in the map of premiere centres of media research in the world.

A major opportunity lies ahead in the new modes of documentation, archiving and curation. The School should devise new projects to work in these fields.

The new forms of practice-based research and an everyday reality where everybody has become producer of text, sound and images in the public domain, classrooms have great opportunities to use small and cheap hardware to make learning and teaching more oriented towards practice and digitally interactive. The dissolution of barriers between scholars, artists, activists and entrepreneurs in the new terrain of communications has opened up opportunities for the school to bring practitioners from various creative and industrial fields within the ambit of a new academia that is committed to making meaningful changes in society through communication and performance.

This is the time when the School can increasingly undertake documentation of and research on local concerns and contemporary issues. Portable and cheap digital devices, along with the possibility of easily utilizing relevant expertise strewn across the world through the web, have made community-based research more accessible. The more the School aligns itself towards new practices concerning the commons, free and open-source software, crowd-sourcing, multimedia design, media advocacy, tactical media and alternative media, the better.

### *Challenges*

The challenges are to overcome the weaknesses and grab the opportunities listed above. Some immediate challenges are as follows:

The first and foremost challenge is to introduce new courses on Media and Culture Studies at postgraduate and M. Phil levels with adequate faculty positions.

Space of the School has to be immediately enhanced.

The number of career-oriented courses needs to be increased in order to accommodate the huge demand for the same reflected in the growing body of applicants for the Radio Production Course every year.

The network of contacts with the social/NGO sector has to be widened and intensified, and the social thrust of research projects strengthened with a view to furnish policy inputs in future.

The School has to seriously explore further possibilities of collaboration with foreign universities and institutions.

37. Future plans (in as much detail as possible):

a. Introduction of MA and M.Phil courses in Media and Culture Studies.

Since the middle of the 1980s, the rise and subsequent development of Cultural Studies have widely impacted all academic disciplines concerned with issues in culture. Among such disciplines, studies in media and communication have possibly embraced the Cultural Studies approach most intimately, leading to a redefinition of erstwhile disciplines like Media Studies. Cultural Studies has critically engaged with globalization and corresponding issues in capitalism, statehood, nationalism, class, gender and sexuality, enabling a much necessary re-contextualization of national media spheres vis-à-vis economic liberalization. Media scholars all over the world continue to be greatly benefited not only by the debates within 'Media and Cultural Studies' (MCS) but also by its dialogue with other approaches, for instance the Political Economy perspective. What has been truly interesting to note is that MCS's inter-disciplinary methodology and ability to reframe the agendas of various other disciplines deny a definitive contour to itself, making MCS persistently porous and also productively ephemeral. This has opened up a wide range of possibilities for studying media, accommodating a great degree of flexibility in any curriculum of MCS and also a wide variety in terms of methodology, theories and pedagogic tools.

While universities across the world have taken advantage of the new frontiers in MCS research, introducing new programmes and substantially redesigning the teaching and research goals, Indian universities have been relatively indifferent to this scenario. The discipline of Mass Communication, a formidable presence in Indian universities, doesn't seem to be very keen on incorporating the critical fervour of cultural and political theories that have drastically reorganized studies in media worldwide. While Mass Communication's focus on journalism and media practice in general continues to generate quality human resource and help in development research, we believe that MCS can make significant contributions and thrive alongside the discipline of Mass Communication in India. The agenda of MCS to strike a fine blend of theory and practice, with a penchant for social intervention, should be seriously considered from the perspective of media policy in India now, when issues in ethics, politics, nationalism, citizenship, economic growth, sustainable development, etc. have become unthinkable without invoking the increasing presence of media in the life of an average Indian. It is in this context that we propose to introduce two-year full time M.A. and M.Phil programmes in 'Media and Culture Studies'. We can't however start the courses unless the requisite number of teaching posts are granted by UGC.

Jadavpur University has been a pioneer in media education and research in eastern India, broadly in the whole country, with the first university department of Film Studies in the country established here in 1993. School of Media, Communication and Culture, established in 1989, housed the Department of Film Studies in its two small rooms till 1999. The School works in close association with the Department, particularly its project called 'The Media Lab' which engages in archiving, training workshops, tactical media production and other digital media practices. Some of the other notable units in the University with which the proposed programmes can partner in realizing its pedagogic objectives are the 'Department of Adult, Continuing Education and Extension' (offering postgraduate diploma in 'Mass Communication and Journalism'), the School of Education Technology (offering two teaching programmes in 'Multimedia Development') and the Centre for Free and Open Source Software. The Cultural Studies approach has lately been undertaken by many departments in the Arts faculty—the latest addition being Hariprasanna Biswas Centre for India-China Cultural Studies—which can bring in their expertise in framing the curriculum for the proposed programme. We sincerely hope that the School's reputation in the field and Jadavpur University's vibrant academic life amply focused on media education would help the programme become one of the best among such courses in the country.

- b. Launch of a dedicated website of the School as soon as possible for widespread dissemination of the research output of the school. The website should be amply interactive and engage multiple media in dialogue with a larger community.
- c. Intensify the network of connections with the marginal communities of the city to empower them with contemporary techniques of independent communication like the tactical media and ensure sustainable development of such techniques.
- d. Undertake advocacy drives for influencing mainstream media into addressing marginal issues and play an active role in policy deliberations.
- e. Enter into an interactive dialogue with the wider community of researchers, teachers, artists, activists, technologists and entrepreneurs to ensure convergence of various expertise in the field of creative communications that we wish to increasingly engage with.

## School of Mobile Computing and Communication

1. Name of the School: MOBILE COMPUTING AND COMMUNICATION
2. Year of establishment: 2006
3. Faculty to which the Department/School/Centre is attached: FISLM
4. Names of programmes offered: M.Tech in Distributed and Mobile Computing; PhD
5. Interdisciplinary programmes being conducted and other departments involved:  
As an interdisciplinary research school, the M.Tech and PhD programmes are interdisciplinary in nature. Other departments participating in the programs include:
  - i) Department of Computer Science & Engineering
  - ii) Department of Information Technology
  - iii) Department of Electronics & Telecommunication Engineering
  - iv) School of Oceanography
  - v) School of Education Technology
6. Examination System: Semester system as adopted by the University.
7. Number of teaching posts sanctioned, filled and actual (Professor/Associate Professor/Asst. Professor/others):

|                     | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | Nil        | -      | -                            |
| Associate Professor | 1          | 0      | 0                            |
| Asst. Professor     | 2          | 2      | 2                            |
| Other (Contractual) | 2          | 1      | 1                            |

8. Faculty profile:

Full-time faculty members in the school:

| Name                | Qualification | Designation               | Specialization                             | Years of Experience | Ph.D./M.Phil. students guided |
|---------------------|---------------|---------------------------|--|---------------------|-------------------------------|
| Punyasha Chatterjee | M.Tech.       | Asst. Prof.               | Wireless Sensor Network                    | 6                   |                               |
| Arpita Sarkar       | M. Tech       | Asst. Prof.               | Embedded System                            | 1                   |                               |
| Pampa Sadhukhan     | PhD           | Asst. Prof. (Contractual) | Location Based Services (Mobile Computing) | 5                   |                               |

University teachers associated with research / teaching in the school

| Name                        | Qualification | Designation                          | Specialization   | Years of Experience           | PhD/MPhil students, last 4 years |
|-----------------------------|---------------|--------------------------------------|--|-------------------------------|----------------------------------|
| Prof. Nandini Mukherjee     | PhD           | Director (Professor in CSE Dept.)    | Parallel Computing, Wireless Sensor Network                                  | 3 (Industry)<br>21 (Teaching) | Awarded – 4<br>Ongoing – 6       |
| Prof. Samiran Chattopadhyay | PhD           | Jt. Director (Professor in IT Dept.) | Distributed Computing<br>Wireless Networks<br>Algorithms & Wireless Networks | 4 (Industry)<br>20 (Teaching) | Awarded - 6<br>Ongoing - 2       |
| Dr. Sarmistha Neogy         | PhD           | Associate Professor (CSE Dept.)      | Security in Mobile Computing   | 21 (Teaching)<br>4 (Research) | Awarded - 1<br>Ongoing – 5       |
| Dr. Sarbani Roy             | PhD           | Assistant Professor (CSE Dept.)      | Distributed Computing, Wireless Sensor Network                               | 10                            | Ongoing - 3                      |
| Chandreyee Chowdhury        | M.E.          | Assistant Professor (CSE Dept.)      | Mobile Computing, Fault Tolerance  | 7                             |                                  |

| Name                        | Qualification | Designation  | Specialization  | Years of Experience            | PhD/MPhil students, last 4 years |
|-----------------------------|---------------|--|---|--------------------------------|----------------------------------|
| Prof. Iti Saha Misra        | PhD           | Professor (ETCE Dept.)                               | Microwave and Wireless Communication  | 16 (Teaching)<br>5 (Research)  | Awarded - 6<br>Ongoing - 7       |
| Prof. Salil K. Sanyal       | PhD           | Professor (ETCE Dept.)                               | Communication Engineering   | 31                             | Awarded - 2<br>Ongoing - 5       |
| Prof. Subir K. Sarkar       | PhD           | Professor (ETCE Dept.)                               | Electron devices, Computer Engineering  | 10 (Industry)<br>22 (Teaching) | Awarded - 24<br>Ongoing - 8      |
| Prof. Mrinal K. Naskar      | PhD           | Professor (ETCE Dept.)                               | Computer Engineering  |                                | Awarded - 4<br>Ongoing - 3       |
| Dr. Matangini Chattopadhyay | PhD           | Associate Professor (School of Education Technology) | Distributed Computing<br>Mobile Security<br>Mobile Computing<br>Mobile Learning | 10 (Industry)<br>11 (Teaching) | Awarded - 1<br>Ongoing - 4       |
| Dr. Bhaskar Sardar          | PhD           | Associate Professor (IT Dept, JU)                    | Computer Networks, Internet Technology, Mobile Computing                        | 10 years                       | Ongoing - 1                      |
| Dr. Parama Bhaumik          | PhD           | Associate Professor (IT Dept, JU)                    | MANET, Opportunistic Networks   | 10 years                       | Ongoing -2                       |

9. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:  
Visiting Professors:

Prof. P.K. Das, Former Professor, Dept. of CSE, JU. Currently Professor, RCCIT, Kolkata

Prof. B.B. Bhaumik, Former Professor, Dept. of CSE, JU.

Mr. Sunirmal Khatua, Assistant Professor, Department of Computer Science and Engineering, University of Calcutta.

10. Percentage of classes taken by temporary faculty – programme -wise information:

10% classes are taken by visiting faculty members.

11. Programme-wise Student Teacher Ratio: M.Tech programme: 5:1

12. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual:

Academic support staff and administrative staff are selected centrally and deputed by the University as per the requirements in respective departments.

Currently two support staff – one Jr. Assistant and one peon are posted in the school.

Other than the above two permanent staff, the following contractual staff are attached with the school: System Administrator – 1; Documentation Assistant – 2; Course Coordinator – 1 (funded under UPE – II); Technical Assistant – 1 (funded under UPE – II)

13. Research thrust areas as recognized by major funding agencies:

(i) Mobile Computing

(ii) Wireless Sensor Networks

(ii) Cloud Computing

14. Number and names of faculty with ongoing projects:

| Project Title  | Principal Investigator  | Funding Agency   | Grant    |
|--|-------------------------|--|----------|
| Development of an Integrated Web Portal for Healthcare Management using Sensor Grid Technologies | Prof. Nandini Mukherjee | Department of Science and Technology (NRDMS and NSDI Division) | 22 lakhs |

|   |                             |   |                    |
|---|-----------------------------|---|--------------------|
| Monitoring Air Pollution Using GIS and Sensor Technology  | Prof. Nandini Mukherjee     | University Grants Commission  | 10 lakhs (Approx.) |
| QoS Aware Resource Brokering in Cloud Infrastructure  | Prof. Samiran Chattopadhyay | University Grants Commission  | 4.72 lakhs         |
| Study and Design of Dependable Mobile Computing Systems   | Dr. Sarmistha Neogy         | University Grants Commission  | 10 lakhs (Approx.) |
| Design of a Secure and Trusted Wireless Sensor Network for border and perimeter tracking                                | Dr. Sarmistha Neogy         | UGC under UPE Phase II  | 5 lakhs            |
| Performance based Resource Management and Load balancing in Cloud Environment   | Dr. Sarbani Roy             | UGC under UPE - Phase II  | 4 lakhs            |
| Studies on Prevention and Detection of Intrusion in Wireless Network  | Dr. Matangini Chattopadhyay | UGC under UPE - Phase II  | 4 lakhs            |
| FOSS-based Technology for smart handhelds   | Smt. Chandreyee Chowdhury   | UGC under the program "Mobile Computing and Innovative Applications" under UPE - Phase II | 5.92 lakhs         |
| Call Admission Control for the Optimization of Resource Utilization for Mobile WiMAX and Integrated WiMAX/WiFi networks | Prof. Iti Saha Misra        | UGC under the program "Mobile Computing and Innovative Applications" under UPE - Phase II | 8.22 lakhs         |
| Designing a SDR based Cognitive Radio Networking test-bed involving multiple WARP boards                                | Prof. Iti Saha Misra        | UGC under UPE - Phase II  | 10.00 lakhs        |
| Low-Power ASIC-VLSI Implementation Of Secure And Authentication Algorithms For Defense Application                      | Prof Subir Sarkar           | UGC under the program "Mobile Computing and Innovative Applications" under UPE - Phase II | 7.82 lakhs         |

15. Research facility/centre run by the Dept./school/centre which has:

- state recognition  
JU-FOSS Resource Centre for promotion and adoption of "*Free and Open Source Software*" in collaboration with *Institute for Open Technology and Applications* – a society under Department of IT, Govt. of West Bengal.
- national recognition -  
Selected as a thrust area program in *Mobile Computing* under UGC sponsored University with Potential for Excellence program - Phase I in 2004  
Received funding under UGC sponsored University with Potential for Excellence program - Phase II in 2012
- international recognition

16. Special research laboratories sponsored by / created by industry or corporate bodies:

- HP-JU Lab. Sponsored by HP set up in Salt Lake Campus, JU
- Centre for Advanced Studies (CAS) set up in collaboration with IBM in the Main Campus & Salt Lake Campus, JU

17. Publications: See Annexure for details

- \* Number of papers published in peer reviewed journals (national / international) - 70 research papers have been published in international journals.  
More than 99 research papers have been published in peer-reviewed International conferences.
- \* Edited Books – 2 (Two)

- \* Books with ISBN with details of publishers – 4 (Four)
  - \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
  - \* Citation Index – range / average
  - \* SNIP
  - \* SJR
  - \* Impact Factor – range / average
  - \* h-index
18. Areas of consultancy and income generated:  
Prepared DPR on “Flood Forewarning System” for Irrigation and Waterways Department, Government of West Bengal, Cost of the Project: Rs. 2,50,000/-
19. Faculty serving in
- a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)
  - i) Prof. Nandini Mukherjee, Director has served as chairperson / member of several expert committees constituted by UGC for different purposes in different times during the last five years.
  - ii) Prof. Samiran Chattopadhyay, Jt. Director has served as chairperson / member of several expert committees constituted by UGC for different purposes in different times during the last five years.
  - iii) Prof. Nandini Mukherjee, Prof. Samiran Chattopadhyay, Dr. Sarmistha Neogy, Prof. Iti Saha Misra served as program committee members and organizing committee members for several international conferences.
  - iv) Prof. Iti Saha Misra is serving as the Secretary of IEEE Calcutta Section from Jan 2012 till date.
  - v) Dr. Sarmistha Neogy has served as the chairperson of IEEE Computer Chapter, Calcutta Section from Jan 2011 to Dec 2012.
  - vi) Prof. Nandini Mukherjee is serving as the chairperson of IEEE Computer Chapter, Calcutta Section from Jan 2013 till date.
20. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted:
- (I) UGC-ASC Refresher course on 'Wireless Sensor Networks' in 2010
  - (II) UGC-ASC Refresher course on 'Security in Wired and Wireless Networks' in 2011
  - (III) Winter School on 'Recent Advances in Wireless and Mobile Computing and Communication' in 2013
21. Student projects
- percentage of students who have done in-house projects including inter-departmental projects: 90%
  - percentage of students doing projects in collaboration with other universities / industry / institute : 10%
  - i) Every year the thesis works of 2 to 4 M.Tech students are guided by the external faculty members associated with the school.
  - ii) Mr. Sujoy Mistry, a PhD scholar is working in a project in collaboration with TCS.
22. Awards / recognitions received at the national and international level by Faculty
- Dr. Sarbani Roy Awarded Fulbright-Nehru Senior Research Fellowship 2012-2013.
  - Dr. Sarbani Roy Awarded UGC RAMAN Postdoctoral Fellowship 2012-2013.

- Dr. Sarbani Roy Awarded cLink (with the support of Erasmus Mundus Programme of the European Union) Postdoctoral Fellowship 2012-2013.
  - Prof. Nandini Mukherjee is one of the recipients of NSF/IEEE-TCPP Early Adopter Awards for Curriculum Initiative on Parallel and Distributed Computing in Spring 2012.
  - Prof. Iti Saha Misra obtained fund from IEEE HQ, USA, for conducting a project on “Low Cost Low Bandwidth Remote Virtual Educational Platform for underserved” and successfully completed the project under Special Interest Group for Humanitarian Technology, SIGHT, Acted as the coordinator of the SIGHT project.
  - "Jadavpur University has been selected as the lead institute for multiinstitutional project "Remote Health: A Framework for Healthcare Services using Mobile and Sensor-Cloud Technologies" funded by Information Technology Research Academy (ITRA), Department of Electronics and Information Technology, Govt. of India. Prof. Nandini Mukherjee is the lead Principal Investigator of the project."
  - Doctoral / post doctoral fellows
  - Students (Give details)
23. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):  
The school conducted Teachers Training Programs with the help of Sarbasiksha Mission, Govt. Of West Bengal. The details are as follows:
- Teachers' Training Program on Computer Aided Learning  
Duration: 01/06/09 to 27/06/13  
No of Teachers: 99
  - Teachers' Training Program on Computer Aided Learning  
Duration: 23/11/09 to 19/12/09  
No of Teachers: 73
  - Teachers' Training Program on CAL with SSM, Kolkata  
Duration: 15/11/10 to 08/12/10  
No of Teachers: 73
- The above programs were fully funded by Sarvasiksha Mission, Govt. of West Bengal.  
In addition to the above programs, the School also trained around 1200 (twelve hundred) school teachers (including Madrasah teachers) in Linux and office packages. The entire program was funded by Department of Information Technology, Govt. of West Bengal
24. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.:  
80% of the students admitted in the M.Tech in Distributed and Mobile Computing course are GATE qualified.  
According to intake criteria, category-wise GATE qualified students are as follows:  
General category – 9 among total intake 15  
SC category – 2 among total intake 15  
ST category – 1 among total intake 15



## 25. Student progression

| Student progression             | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG                        |                             |
| PG to M.Phil.                   |                             |
| PG to Ph.D.                     |                             |
| Ph.D. to Post-Doctoral          |                             |
| Employed                        |                             |
| • Campus selection              | 90%                         |
| • Other than campus recruitment | 10%                         |
| Entrepreneurs                   |                             |

26. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period (2008 – 2013):

- \* Ph.D - 3: (I) Dr. Sarbani Roy - 2008  
 (II) Dr. Pampa Sadhukhan - 2012  
 (III) Smt. Chandreyee Chowdhury - Submitted (2013)

27. Present details of departmental infrastructural facilities with regard to

- Library: 1 (enriched with 650 books)
- Internet facilities for staff and students: Yes, fully connected with wired and wireless network, connected to Campus Network
- Total number of class rooms: 2
- Class rooms with ICT facility: Both
- Students' laboratories: 2
- Research laboratories: 2

28. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university:  
 UGC-BSR Research Fellowship in Science for Meritorious Students  
 1) Subrata Dutta, 2) Ayatullah Faruk Mollah, 3) Rajarshi Midya, 4) Subhadip Batabyal, 5) Kousik Naskar  
 Research Fellowship under TEQIP programme  
 6) Manoj Kumar Rana  
 Research Fellowships under TCS Research Scholar Program  
 7) Sujoy Mistry, 8) Suman Sankar Bhunia  
 Research Fellowships under UGC UPE Phase II  
 9) Sayantani Saha, 10) Binay Kr. Ray, 11) Mousumi Saha, 12) Milinda Mukherjee, 13) Kathakali Dutta, 14) Susmita Ghosh Chattopadhyay, 15) Diptangshu Pandit
- from other institutions/universities  
 1) Zeenat Rehena – Aliah University

29. Number of post graduate students getting financial assistance from the university. (Give details.):

- ▲ 12 out of 15 students in the M.Tech program are getting GATE scholarship from AICTE
- ▲ 13 PhD students are getting fellowships under different schemes of the University (as listed under item no. 39)
- ▲ 2 PhD students are receiving fund under TCS Research Scholar program (as listed under item no. 39)

30. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

- \* Workshops are organised with academicians from different institutions and experts from the industries.

31. Does the department obtain feedback from

- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the

department utilize the feedback?

- \* Yes. Department organises regular meetings on curriculum with teachers and members of the academic committee.

Recommendations regarding updation of curriculum is sent to the University on the basis of this feedback.

- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

- \* Teacher-student meetings are organised on regular basis.

- c. alumni and employers on the programmes offered and how does the department utilize the feedback?

- \* The school has regular contacts with its alumni and their opinions are seriously considered.

32. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- ^ DB2 and Websphere Training programme by IBM – Academic Initiative in 2009.

- ^ Workshop on 'R' in 2012.

- ^ 'Software Freedom Workshop' in 2012 in collaboration with FSMWB.

- ^ Workshop on 'Software Freedom in Science and Engineering' in 2012 in collaboration with FSMWB.

- ^ In addition to the regular programs, the school regularly organises shor-term courses. Some of the courses are:

1. Core JAVA & J2ME course

Starting date: September 8, 2008

No of students: 10

2. Linux Basic & Linux Administration (for Engg. Students)

Starting date: February 1, 2010

No of students: 20

3. Linux Administration (for Engg. Students)

Duration: June 21, 2010 – July 31, 2010

No of students: 186

4. Linux Administration, Networking Basics

5. S/W development using Java

Duration of both courses: June – July, 2011

Total no of students: 119

6. Linux Administration & Networking Basics

Duration: Dec, 2011- January, 2012

No of students: 15

7. Linux Administration, Networking Basics

8. Web development using PHP & MySQL

Both courses were held in June – July, 2012

Total no of students: 81

9. Linux Administration

10. Web development using PHP & MySQL

Both courses were held in January, 2013

Total no of students: 65

11. Linux Administration

12. Web development using PHP & MySQL

Both courses were held in June – July, 2013

Total no of students: 41

33. List the teaching methods adopted by the faculty for different programmes.  
 1) Class lectures using presentations; 2) Special lectures on different topics by external experts; 3) Regular contacts beyond class hours; 4) Assignments for individual students and groups; 5) Use of laboratories for practical understanding of the subjects; 6) Seminar presentations by the students
34. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?  
 Regular meetings of the academic committees and discussions between the faculty members and students.
35. Highlight the participation of students and faculty in extension activities.  
 School of Mobile Computing and Communication has collaborated with different institutions in West Bengal for organisation of seminar, workshops and national and international conferences. The faculty members and research scholars of the school have always participated in these programs as resource persons and exchanged their research experiences with the participants.
36. Give details of “beyond syllabus scholarly activities” of the department.  
 School of Mobile Computing and Communication regularly organises seminars, workshops, refresher courses and special lectures for the students and faculty members. The school organised two international conferences, namely Asian International Mobile Computing Conferences (AMOC 2006 and AMOC 2007) in the years 2006 and 2007.
37. Briefly highlight contributions in generating new knowledge, basic or applied.  
 Plenty of research work undertaken in the area of Wireless Sensor Networks, Mobile Computing and Distributed Computing and International Papers have been published.
38. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).  
*Strengths*  
 Participation of faculty members from different departments in the activities of the school.  
 State-of-the-art infrastructure in the fields of specialisation.  
 Young and energetic faculty members.  
 A unique M.Tech program in Mobile Computing.  
*Weaknesses*  
 More faculty members must be recruited at senior positions for introducing new programmes.  
*Opportunities*  
 The school was set up as a thrust area program under the UGC-UPE scheme  
 The school has been selected for funding under UPE Phase II.  
*Challenges*  
 To always remain at the apex of research in mobile computing and communication.
39. Future plans (in as much detail as possible):
1. To promote comprehensive and interdisciplinary research in the area of Mobile Computing and Communication.
  2. To offer courses and research programs on emerging technologies in mobile computing and communication.
  3. To study various issues and challenges related to the application of mobile and wearable devices / systems in socially relevant programs such as spread of education, providing health care, agricultural support system, etc.
  4. To develop collaborations with other institutes and industries – both national and international – in the field of mobile computing and communication.

### School of Natural Product Studies

1. Name of the Department/School/Centre: NATURAL PRODUCT STUDIES
2. Year of establishment: 2002
3. Faculty to which the School is attached: FISLM
4. Names of programmes offered: PhD
5. Faculty profile:

| Name               | Qualification       | Designation    | Specialization            | Years of Experience | Ph.D. students, last 4 years |
|--------------------|---------------------|----------------|---------------------------|---------------------|------------------------------|
| Pulok K. Mukherjee | M. Pharm, PhD, FRSC | Director       | Natural Products research | 15                  | 18                           |
| Tuhinadri Sen      | M Pharm, PhD        | Joint Director | Pharmacology              | 17                  | 13                           |

6. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:

| Name                            | Affiliation  | Topic of lecture   | Date              |
|---------------------------------|--|--|-------------------|
| Dr. Debadeep Bhattacharjee      | Sr. Global Business Development Manager Waters Corporation (Pharmaceutical & Life Sciences), USA | Evolution of Analytical Instruments to Address Challenges in Pharmaceutical Industry | July 15, 2013     |
| Dr. Shruti Sharma               | Postdoctoral Scientist Lausanne, Switzerland   | Eukaryotic polyphosphate as an attractive target for human therapeutics              | July 15, 2013     |
| Dr. James Patrick Dheyongera    | South African Medical Research Council, Cape Town, South Africa                                  | Indigenous Knowledge System in South Africa  | March 06, 2013    |
| Dilip Ghosh, PhD, FACN          | Soho-Flordis International, Sydney, Australia  | Seed to patient: role of specifically clinically proven natural products             | February 26, 2013 |
| Dr. T. Niranjana Kumar          | Hyderabad  | Psychotherapy & Human Brain  | January 29, 2013  |
| Dr. Souvik Kusari               | Research Scientist Institute of Environmental Research (INFU) Dortmund Germany                   | Plant Biotechnology and its importance   | January 17, 2013  |
| Ms. Grazielle Carolina da Silva | Universidade Federal de Minas Gerais Av. Antônio Carlos, 6627 Belo Horizonte, Brazil             | Significant discussion on Brazilian medicinal Plants                                 | December 15, 2012 |
| Dr. Elora Gupta                 | Director, Global Regulatory Lead, Eliquis Bristol-Myers Squibb Company                           | Apixaban (Eliquis®) Journey  | December 28, 2012 |
| Dr. Madhab Kumar Chattopadhyay  | Scientist, Centre for Cellular and Molecular Biology (CSIR), Hyderabad                           | Antibiotics and Bacterial Resistance to Antibiotics                                  | November 7, 2012  |
| Dr. Sitesh Chandra Bachar       | Professor, Department of Pharmaceutical Technology, University of Dhaka Bangladesh               | Hospital Pharmacy Practice in Bangladeshi Hospital: The Present Scenario             | July 20, 2012     |
| Dr. Raja Ghosh                  | Canada Research Chair in Bioseparations & Associate Professor McMaster University, Canada        | “PEGylated Biopharmaceuticals”   | August 24, 2011   |
| Dr. Arnab Dutta                 | Arizona State University, Tempe, AZ 85281, USA   | Synthesis of Hydrogenase-Sources for Reversible Energy from Water                    | January 7, 2011   |

7. Research thrust areas as recognized by major funding agencies:  
Natural Product Research based on the following thrust areas:
  - Traditional medicine inspired drug discovery and development,
  - Scientific validation and documentation
  - Pharmaco-vigilance, safety surveillance of natural products
  - Quality control and standardization of natural products
  - Exploring natural products for Alzheimer's diseases based on Acetyl cholinesterase inhibitors
  - Development of high-throughput screening methodologies for drug screening and evaluation

School has made significant contributions in traditional medicine inspired drug discovery and development from natural resources. The school has been working on development of metabolomic approaches for validation of traditional medicine for quality control, pharmaco-vigilance, safety surveillance, risk assessment, marker profiling and related aspects. This is based on leveraging innovations in traditional Indian medicine, particularly on rationally designed, carefully standardized, synergistic traditional herbal formulations and botanical drugs for their scientific validation on evidence based approaches. The work highlights on several parameters along with development of high-throughput screening methodologies for drug screening and evaluation, studies on quality control, pharmacovigilance, safety surveillance, risk management, marker profiling and related studies of natural health products. School has been working on marker and biomarker profiles of herbs relating to method development for quality control and standardization of different herbal formulations and their evaluation.

The works on exploring natural products for Alzheimer's diseases based on Acetyl cholinesterase inhibitors is very important. School has developed techniques for value added herbal formulation – herbosomes to increase the bioavailability of therapeutically potent plant secondary metabolites and patented. The work of school has been appreciated by several manufacturing units and the products developed are being marketed by them. Several Industry-institute collaborations have been made and MOU has been signed in this regard on product / process development in the area of natural products.

Major contributions of school on development of natural health products [NHP] are as follows:

- Drug development for Alzheimer's diseases as AChE inhibitors
- Development of Herbosomes - value added herbal formulation and evaluation:
- Quality control and standardization of herbal drugs
- Safety evaluation of herbal medicine
- Exploitation of Indian Natural Resources- Phytochemical, Pharmacological screening and evaluation
- Exploring Anti aging leads from natural products
- Exploring anti-allergic leads from natural products
- Ethno biological Studies on medicinal plants of Western Ghats
- Exploring traditional medicine to effective herbal formulations

8. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

| Sl.                                  | Title of the project   | Funding Agency   | Grant (Rs.) | Status    |
|--------------------------------------|--|--|-------------|-----------|
| Faculty name: Dr. Pulok K. Mukherjee |  |  |             |           |
| 1.                                   | 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           | 29,04,000   | Ongoing   |
| 2.                                   | Synergistic interaction of anti-bacterial natural products from medicinal plants of North East India: An effort in developing multi drug resistance natural antibiotic | Department of Biotechnology - NR (DBT-Twinning), NER Division, New Delhi                                       | 69,89,000   | Ongoing   |
| 3.                                   | Evaluation of safety profile of some Anti-diabetic plants used in Indian System of Medicine  | National Medicinal Plants Board (NMPB), New Delhi  | 50,87,000   | Ongoing   |
| 4.                                   | Development and evaluation of natural product based formulation  | Ulysses Research Foundation (URF), Kolkata   | 8,76,000    | Ongoing   |
| 5.                                   | Anti aging & Anti wrinkle Formulation with Matrix Metalloproteinase Inhibitory Activity From Natural resources   | Dept. of Science & Technology-Drug & Pharmaceutical Research Program DST-DPRP), Govt. of India, New Delhi      | 67,98,800   | Completed |
| 6.                                   | Search for Acetyl cholinesterase inhibitors from Indian medicinal plants   | Dept. of Science & Technology-Science and Engineering Research Council (DST- SERC), Govt. of India, New Delhi  | 29,11,000   | Completed |
| 7.                                   | Safety evaluation of herbal medicine   | All India Council for Technical Education – (AICTE-MODROBS), Govt. of India, New Delhi                         | 15,00,000   | Completed |
| 8.                                   | Marker analysis for standardization of some Indian medicinal plants - Tool for Standardization of Botanicals   | All India Council for Technical Education – Research Promotion Scheme (AICTE-RPS), Govt. of India, New Delhi   | 19,00,000   | Completed |
| 9.                                   | Angiotensin converting enzyme (ACE) inhibitors from Indian medicinal plants  | Council of Scientific and Industrial Research (CSIR), Extra Mural Research Division, Govt. of India, New Delhi | 17,50,000   | Completed |
| 10.                                  | Evaluation of safety profile of herbs used in Ayurveda with CYP- 450 enzymes inhibition method   | Central Council for Research in Ayurvedic Sciences (CCRAS), Govt. of India, New Delhi                          | 22,17,000   | Completed |
| 11.                                  | Acetyl cholinesterase [AChE] inhibitors from Indian spices   | University Grant Commission (UGC), Govt. of India, New Delhi   | 4,85,000    | Completed |
| 12.                                  | Development and Evaluation of Phytosomes - A Value Added Herbal Drug Delivery System   | Dept. of Science & Technology-Science and Engineering Research Council (DST- SERC), Govt. of India, New Delhi  | 10,00,000   | Completed |

## 9. Inter-institutional collaborative projects and associated grants received

| Sr. No                         | Title of the project   | Name of the funding agency   | Amount Sanctioned (Rs.) | Ref No                  |
|--------------------------------|--|--|-------------------------|-------------------------|
| a) International collaboration |  |  |                         |                         |
| 1.                             | 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 with IKS (Health) Research Unit, Medical Research Council, Francie van Zijl Drive Parow Valley, Cape Town, South Africa & Faculty of Pharmacy, Universidade Federal de Minas Gerais Av. Antônio Carlos, 6627 Belo Horizonte, Brazil | 29,04,000               | INT/IBSA/01-04/2010(i); |
| 2.                             | Anti allergic potential from Indian Medicinal Plants   | Dept. of Science & Technology-Japan Cooperative Science Programme (DST-JSPS) Institute of Health Bio Sciences, Faculty of Pharmaceutical Sciences, Tokushima University, Japan   | 6,54,000                | DST/INT/JAP/MI SC/08    |
| b) National collaboration      |  |  |                         |                         |
| 3.                             | Synergistic interaction of anti-bacterial natural products from medicinal plants of North East India: An effort in developing multi drug resistance natural antibiotic | Department of Biotechnology -NR (DBT-Twinning), NER Division, New Delhi  | 69,89,000               | BT /153/NE/TBP/2011     |
| 4.                             | Anti aging & Anti wrinkle Formulation with Matrix Metalloproteinase Inhibitory Activity From Natural resources   | Dept. of Science & Technology-Drug & Pharmaceutical Research Program (DST-DPRP), Govt. of India, New Delhi   | 67,98,800               | VI-D&P/287/08-09/TDT    |

10. Publications: See Annexure

11. Details of patents and income generated:

Patents obtained: 04

1. "A Process for Isolation of Betulinic Acid useful as Anti-HIV, Anti-tumoral and Melanoma-Specific Cytotoxic Agent" - Pulok K. Mukherjee, M. Pal and B.P. Saha by Intellectual Property Management Division, CSIR, New Delhi (International patent – No-WO03011891).
2. "A Process of Preparing a Herbal Composition for the Management of Insomnia/Stress and Product thereof" P. K Mukherjee, S. Rai, Kakali Mukherjee and KFH Nazeer Ahamed, B.P. Saha and S. Roy Chowdhury, Indian Patent No –221881.
3. "A Process of Preparing Herbosomes with Andrographolide having Better Hepatoprotective Activity and Product thereof" P. K. Mukherjee, Kuntal Maiti, Kakali Mukherjee and Bishnu Pada Saha; Indian Patent No- 234595.
4. "Genistein herbosomes for better therapeutic efficacy" Pulok K Mukherjee, M Venkatesh, Kakali Mukherjee submitted on 9/8/2009 with Intellectual Ventures India, Bangalore.

None of the above was commercialized.

12. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):

*Pulok K Mukherjee*

- a. Visiting Scientist at the School of Pharmacy, London at the Centre for Pharmacognosy and Phytotherapy, School of Pharmacy, University of London with Prof Michael Heinrich in the field of natural product research for safety evaluation of natural products and their metabolisms, 2007-2008.
  - b. Visiting Scientist at the King's College London at the Pharmaceutical Science Research division of King's College London with Prof Peter Houghton in the field of natural product research for drug development of Acetyl cholinesterase inhibitors from natural resources, 2005-2006.
  - c. Visiting Scientist at Tokushima University at the Institute of Health Bio Sciences, Faculty of Pharmaceutical Sciences, Tokushima University, Japan the field of development of natural resources of therapeutics for Allergy including an overview on the development of molecular mechanisms for activities related with the natural health products and dietary supplements; April 9-20, 2007.
  - d. Visiting Scientist at Leiden University at the Leiden Amsterdam Center for Drug Research, Gorlaeus Laboratories, Dept. of Pharmacognosy, 55 Einstein Weg, 2300 RA, Leiden, The Netherlands under the guidance of Prof. Rob. Verpoorte, in the field of Herbal Drug Research relating to Plant Genetic Resources for the production of secondary metabolites and also for the screening, isolation, characterization and standardization of herbal drugs; October 2005 - March 31, 2006
  - e. Visiting Researcher at the CDS Safety Inc., New Jersey, USA with Dr. P K Paul in the field of Drug safety with special emphasis to botanicals including an overview on Pharmacovigilance, safety surveillance, risk management on drug and pharmaceuticals including natural health products and dietary supplements; June 30-july 18, 2005.
13. Faculty serving in
- a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)

- a) International committees:

*Pulok K Mukherjee*

- Fellow of the Royal Society of Chemistry [FRSC], Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge CB4 0WF, U.K, 2007.
- Advisor, American Herbal Pharmacopoeia; 3051 Brown's Lane; Soquel, CA 95073 USA, 2010 onwards.
- Chairman, Natural Health Product SIAC Special Interest Area Community [SIAC], Drug Information Association, Philadelphia, USA, 2009 worked for the development of international coordination for promotion and development of natural products as therapeutically potent compounds.
- Council member of the Society for TCM Pharmaceutical Analysis under the world Federation of Chinese Medicine Societies (WFCMS), Shanghai, China, 2010.
- Member & External Examiner of PhD Research Degree Committee, Lincoln University, Malaysia; Pretoria University South Africa; Medical Research Council, Cape Town South Africa.
- Working as member of the review committee of the task force of the World Health Organization [WHO] for the formulation of guidelines on various aspects of botanicals like GMP, GSP, Regulation, Quality control and allied guidelines.
- Worked as Chairman of the following session of the Drug Information Association [DIA], USA for various aspects of botanicals:



- i. Evaluation of the Indian traditional medicine – Sandiego, California, USA, 2000.
- ii. Promotion and development of GMP of herbal drugs – Denver, Colorado, USA, 2001.
- iii. Regulation and Promotion of Botanicals (Herbal Drugs) in Alternative Systems of Medicine - Illinois, Chicago, USA, 2002.
- iv. Evaluating botanicals in alternative and complementary medicine: Regulatory perspectives and International co-ordination' 2003, San Antonio, Texas, USA.
- v. "Changing Regulatory Perspectives of Indian Natural Health Products" 2004, Washington DC, USA.
- vi. "Exploring Natural Health Products: Promotion and International Coordination" 2005, Washington DC, USA.

b) National committees:

*Pulok K Mukherjee*

- 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, 2012.
- Chairman of Consortium Advisory Committees [CAC], ICAR- on the subproject Utilization of Weed Flora of Medicinal Value in Some Important Cropping Systems of Andhra Pradesh; National Agricultural Innovation Project, Indian Council of Agricultural Research, Govt of India, New Delhi, 2012.
- Member of Management Advisory Committee [MAC] of National Centre for Natural Resources [NCNR], Raipur, Chhattisgarh, Department of Science & Technology, New Delhi, 2012.
- Expert in Indian Pharmacopoeia Commission [IPC], Ministry of Health & Family Welfare, Govt. of India, Ghaziabad, 2012, onwards continuing.
- Member of panel of expert of the R&D Project evaluation Subcommittee on Chemical Sciences, West Bengal State Council of Science & Technology, Kolkata, 2012.
- Reviewer for Project evaluation : National Medicinal Plants Board (NMPB), Dept of AYUSH, Government of India
- Zonal coordinator [East Zone] - for Graduate Aptitude Test in Pharmacy: GPAT -2011 examination.
- Task Force member of DBT- worked as task force member of Department of Biotechnology Govt of India for the 10<sup>th</sup> Five year plan in Biotechnology based Programme for Women and Rural Development, 2002-2007.

c) Editorial Boards:

*Pulok K Mukherjee*

- Associate Editor, *J. Ethnopharmacology*, International journal on botanical research, published by Elsevier Science, the Netherlands 2003 onwards.
- Guest editor of Indian Journal of Traditional Knowledge, special issue on "Traditional knowledge of the Northeast India", January, 2009 published from, National Institute of Science Communication and Information Resources [NISCAIR], CSIR, New Delhi.
- Guest editor of Drug Information Journal, special issue on "Natural Health Products", September, 2010 published from, Drug Information Association [DIA], Philadelphia, USA.
- Chairman syllabus Review Committee for Bachelor and Master Course in Pharmacy for the Sikkim University, a central university established by an act of Parliament of India in 2007; GITAM University, Vishakhapatnam etc.
- NISCAIR Panel Expert for the dissemination of information under the journal published by National Institute of Science Communication & information Resources, CSIR, New Delhi.

- Member of the country advisers, Development Partnerships in Higher Education (DeLPHE), supported by Department for International Development (DFID), UK, 2010.
- President, Association of Pharmaceutical Teachers of India [APTI], Bengal Branch, HQ at Al-Ameen College of Pharmacy, Hosur Road, Bangalore 2009 onwards.
- Member of the Editorial Board of *Journal of Health Research*, an International journal published by Chulalongkorn University, Bangkok, Thailand
- Member of the Editorial Board of *International Journal of Chinese Herbal Medicine (CHM)*, an International Journal published by Institute of Medicinal Plant Development (IMPLAD), Chinese Academy of Medical Sciences (CAMS), Beijing, P.R. China
- Member of the Editorial Board of *J. Complementary and Integrative Medicine*, an International journal published by The Berkeley Electronic Press.
- Member of the Editorial Board of *Phytotherapy Research*, an International journal published by John Wiley & Sons Ltd., Chichester, Sussex, England, U.K.
- Member of the Editorial Board of *J. Oriental Pharmacy and Experimental Medicine [OPEM]*, an International journal published by Springer, Institute of Oriental Medicine, South Korea.
- Member of the Editorial Board of *J. Natural Remedies [JNR]*, an Indian journal published by Natural Remedies, Bangalore.
- Member of the Editorial Board of *J. Pharmaceutical Research*, an Indian journal published by Krupanidhi College of Pharmacy, Bangalore.
- Member of the Editorial Board of *J. Pharmaceutical Education*, an Indian journal published by Association of Pharmaceutical Teachers of India [APTI].
- Member of the Editorial Board of *Indian Journal of Traditional Knowledge [IJTK]*, a journal published by National Institute of Science Communication & information Resources, CSIR, New Delhi.
- Member of the Editorial Board of *Medicinal and Aromatic Plant Abstracts [MAPA]*, a journal published by National Institute of Science Communication & information Resources, CSIR, New Delhi.
- Member of the Editorial Board of *Journal of Health Research*, an international journal in the field of health bio sciences, published from Chulalongkorn University, Bangkok, Thailand.
- Member of the Editorial Board of *American Journal of Plant Sciences (AJPS)*, Scientific Research Publishing, USA.

14. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted:

| Sl | Organized as                            | Title   | Duration                          |
|----|---|---|-----------------------------------|
| 1. | National<br>(Organizing Secretary)      | Developing Quality Monographs for Pharmacopoeia for Herbs and Herbal Products             | January 16-17, 2010,              |
| 2. | National<br>(Organizing Secretary)      | Histamine H1 receptor gene expression in allergy and its suppression by natural medicines | February 23, 2009.                |
| 3. | International<br>(Organizing Secretary) | IPS international conference Fractionation and Standardization of Natural Products        | December 9, 2009                  |
| 4. | National<br>(Organizing Secretary)      | Thrust Areas on Development of Natural Products   | November 20-<br>December 10, 2008 |
| 5. | National<br>(Organizing Secretary)      | Natural Health Product-Opportunities and Challenges'                                      | March 15, 2008.                   |
| 6. | National<br>(Organizing Secretary)      | Instrumental Chromatography and Drug Discovery"   | December 8, 2008.                 |

15. Student projects

- percentage of students who have done in-house projects including inter-departmental projects

- percentage of students doing projects in collaboration with other universities / industry / institute
16. Awards / recognitions received at the national and international level by Faculty
- Dr. Pulok K. Mukherjee*
- ✓ Common Wealth Academic Staff Fellowship Award-2005, from Association of Common wealth University, Common wealth scholarship commission UK and University Grants Commission, India for research contributions in the field of Natural Product Research.
  - ✓ Biotechnology Overseas Award-2007 from the Department of Biotechnology, Government of India, New Delhi for development of safety profiles of herbal medicine.
  - ✓ DIA-Out Standing Service Award-2006, from Drug Information Association [DIA], USA, this award was conferred at the inaugural function of the 42nd Annual Conference of the Drug Information Association at Pennsylvania convention centre, Philadelphia, PA, USA.
  - ✓ BOYSCAST Fellowship-1999 from the Dept. of Science & Technology, Ministry of Science & Technology, Govt. of India, New Delhi .
  - ✓ AICTE Career Award For Young Teachers-1998 from All India Council For Technical Education, Govt. of India New Delhi for research contributions in the field of Pharmaceutical Technology in general and Herbal Drug Research in particular.
  - ✓ Young Pharmacy Teacher Award-2002, from Association of Pharmacy Teachers of India [APTI] for research contributions in the field of Pharmaceutical Technology in general and Herbal Drug Research in particular.
  - ✓ The Fujii Otsuka Award-2007, for International Education and Research Exchange from Tokushima University, Japan for development of natural resources of therapeutics for Allergy including an overview on the development of molecular mechanisms for activities related with the natural health products and dietary supplements.
  - ✓ DIA Research Grant Award-2003, from Drug Information Association [DIA], USA, for research contributions in the field of Herbal Drug Research related with Pharmacovigilance studies on herbal drugs.
  - ✓ IPA Fellowship Award-2001 from Indian Pharmaceutical Association [IPA], central council, Mumbai for contributions in the field of Pharmaceutical research, teaching and professional development.
  - ✓ Al-Ameen College of Pharmacy Award-2004 from Association of pharmacy Teachers of India [APTI] for best research contributions in the field of Pharmacognosy in Indian Journal of Pharmaceutical Education.
  - ✓ M.N. Dev. Memorial Award-1987 for obtaining first position in order of merit at the D. Pharm. examination, State Medical Faculty of West Bengal, Calcutta, 1987.

Doctoral / post doctoral fellows

Neelesh K. Nema (Doctoral Fellow)

- ✓ Best Oral Presentation Award in 2nd AYUNS International Ayurvedic Conference, Dhaka [2013]: Oral presentation award entitles “Hyaluronidase, elastase and MMP-1 inhibition activity of standardized antiaging formulation” in 2nd AYUNS International Ayurvedic Conference on Modality of Ayurvedic and Traditional Medicine at the University of Dhaka, Dhaka, Bangladesh, January 26, 2013.
- ✓ Best Oral Presentation Award in 63rd IPC, Bengaluru [2011]: Certificate of Merit for oral presentation entitles “Matrix metalloproteinase-1 inhibitory activity of Cucumis sativus lyophilized juice” in 63rd Indian Pharmaceutical Congress, Bengaluru, December 16-18, 2011.

17. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

| State/ National/<br>International                              | Title  | Duration                         |
|--|--|----------------------------------|
| International<br>Conference<br>(Organizing Secretary)          | 12th congress of the International Society for Ethnopharmacology [ISE-2012]<br>Traditional Medicines and Globalization–The Future of Ancient Systems of Medicine | February 17-19, 2012             |
| International<br>Conference (Chairman<br>Scientific Committee) | Herbal Medicine –Evaluation of Quality, Efficacy and Safety  | February 26-28, 2009             |
| International<br>Conference<br>(Organizing Secretary)          | Promotion and Development of Botanicals with International Coordination: Exploring quality, safety, efficacy and regulations                                     | February 25-26, 2005,            |
| National conference<br>(Organizing Secretary)                  | Emerging Trends in Natural Product Research  | February 12-13, 2011,<br>Kolkata |
| National seminars<br>(Organizing Secretary)                    | Golden Jubilee Celebration by Department of Pharmaceutical Technology, Jadavpur University   | February 23-24, 2013.            |
| National workshop<br>(Organizing Secretary)                    | Developing Quality Monographs for Pharmacopoeia for Herbs and Herbal Products  | January 16-17, 2010,             |
| National seminar<br>(Organizing Secretary)                     | Histamine H1 receptor gene expression in allergy and its suppression by natural medicines  | February 23, 2009.               |
| International workshop<br>(Organizing Secretary)               | IPS international conference Fractionation and Standardization of Natural Products   | December 9, 2009                 |
| National workshop<br>(Organizing Secretary)                    | Thrust Areas on Development of Natural Products  | November 20-December 10, 2008    |
| National seminar<br>(Organizing Secretary)                     | Natural Health Product-Opportunities and Challenges'   | March 15, 2008.                  |
| National seminar<br>(Organizing Secretary)                     | Instrumental Chromatography and Drug Discovery"  | December 8, 2008.                |

18. Present details of departmental infrastructural facilities with regard to

- Library - Yes/ available
- Internet facilities for staff and students - Yes/ available
- Total number of class rooms- One
- Class rooms with ICT facility- Yes/ available
- Students' laboratories: Yes/ available
- Research laboratories: Yes/ available

19. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university
  - Kuntal Maiti, DST fellowship, [completed, 2007], Jadavpur University, Kolkata.
  - V. Kumar, DBT fellowship [completed, 2008], Jadavpur University, Kolkata.
  - Arunava Gantait, State Govt, Senior Research Fellowship [completed, 2010], Jadavpur University, Kolkata.
  - Sauvik Bhattacharyya, State Govt Research Fellowship, registered for PhD, July 2011, Jadavpur University, Kolkata.
- from other institutions/universities:
  - Atul Murlidhar Wahile, UGC fellowship [completed, 2006], Jadavpur University, Kolkata.
  - S. Raja, AICTE QIP fellowship [completed, 2006], Jadavpur University, Kolkata.
  - Sujay Rai, ICMR fellowship [completed, 2007], Jadavpur University, Kolkata.
  - KFH Nazeer Ahmed, Dabur Research Foundation fellowship [completed, 2007], Jadavpur University, Kolkata.

5. Atish Kumar Sahoo, ICMR fellowship [completed, 2008], Jadavpur University, Kolkata.
  6. M. Venkatesh, CCRAS [completed, 2010], Jadavpur University, Kolkata.
  7. N. Satheesh Kumar, UGC Research Fellowship [completed, 2010], Jadavpur University, Kolkata.
  8. Mr. Debajyoti Mukherjee, CSIR, Senior Research Fellowship [completed, 2010], Jadavpur University, Kolkata.
  9. S. Ponnusankar, AICTE, QIP fellowship [completed, 2010] Jadavpur University, Kolkata
  10. P. Venkatesh, ICMR fellowship [completed, 2011] Jadavpur University, Kolkata.
  11. Subrata Pandit, CCRAS fellowship, [completed, 2011] Jadavpur University, Kolkata
  12. Santanu Badra, DST fellowship [completed, 2012] Jadavpur University, Kolkata.
  13. Niladri Maity, DST-DPRP fellowship, [completed, 2013] Jadavpur University, Kolkata.
  14. Neelesh Kumar Nema, DST-DPRP fellowship, registered for PhD, July 2010, Jadavpur University, Kolkata.
  15. Sushil K. Chaudhary, CSIR fellowship, registered for PhD, August 2011, Jadavpur University, Kolkata.
  16. Manoj K. Dalai, AICTE, QIP fellowship, registered for PhD, November 2011, Jadavpur University, Kolkata.
  17. Sk. Milan Ahmmed Moulana Aazad National Fellowship-UGC registered for PhD on April, 2012, Jadavpur University, Kolkata.
  18. Rajarsi Biswas, State Govt Research fellowship, registered for PhD, September 2012, Jadavpur University, Kolkata.
  19. Debayan Goswami, UGC-BSR, Research fellowship registered for PhD, September 2012, Jadavpur University, Kolkata.
  20. Mrinmoy Nag, Ulysses Research Foundation project fellowship registered for PhD, January 2013, Jadavpur University, Kolkata.
20. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

*Conference/ workshop/seminar*

- 12<sup>th</sup> congress of the International Society for Ethnopharmacology [ISE-2012]: 12<sup>th</sup> congress of the International Society for Ethnopharmacology [ISE-2012] on Traditional Medicines and Globalization–The Future of Ancient Systems of Medicine Kolkata, India from February 17-19, 2012. It was first ISE congress organized in India, to promote ‘Brand India’ focused on globalizing local knowledge and localizing global technologies in the area of traditional medicine. 12<sup>th</sup> congress of the International Society for Ethnopharmacology [ISE 2012] India turned out to be a saga of grand success involving the representatives from over 50 countries, 1000 delegates, with over 600 scientific presentations in the areas of natural products and traditional medicine inspired drug discovery and development.
- Golden Jubilee Celebration by Department of Pharmaceutical Technology, Jadavpur University [2013]: for commemorating its glorious 50 years of academic excellence since 1963. The main focus of the golden jubilee celebration will include scientific seminar on “Research and development in drugs and

pharmaceuticals: An industrial perspective” along with the cultural program by alumni and professionals during February 23-24, 2013.

- National Conference [2011] on “Emerging Trends in Natural Product Research” February 12-13, 2011, Kolkata, India organized by School of Natural Product Studies in association with Association of Pharmaceutical Teachers of India (APTI), Federation of Indian Herbal Industry [FIHI] and Parker Robinson Pvt. Ltd. Kolkata. More than 400 participants from different states of India. This conference mainly highlighted the trends in natural product research with various aspects of scientific validation and evaluation of herbal medicinal products for their promotion and development with an insight to the evaluation of natural products.
- National Workshop [2010] on “Developing Quality Monographs for Pharmacopoeia for Herbs and Herbal Products” January 16-17, 2010, Kolkata, India organized by School of Natural Product Studies in association with Indian Pharmacopoeia Commission (IPC), National Medicinal Plants Board (NMPB), and Association of Pharmaceutical Teachers of India (APTI). More than 250 participants from different states of India. This workshop mainly highlighted the development of monograph for Indian Pharmacopoeia Commission for herbals and also to develop capacity to this kind of work in India. It will help to develop new technological methods and excellent standards in Pharmaceuticals in every way.
- International conference [2009] on “Herbal Medicine –Evaluation of Quality, Efficacy and Safety” held on February 26-28, 2009 at Bangalore, India. Jointly organized by School of Natural Product Studies, Jadavpur University, Rajib Gandhi Health University, Bangalore with Association of Pharmaceuticals Teacher’s of India [APTI], Bangalore. More than 1400 participants from 24 different counties participated in this conference to highlight different aspects of natural product research and development.
- National seminar [2009] on “Histamine H1 receptor gene expression in allergy and its suppression by natural medicines” February 23, 2009. Organized by School of Natural Product Studies Jadavpur University, in Association with Association of Pharmaceutical Teachers of India [APTI] Bengal Branch
- Pre-conference workshop of IPS international conference [2009] on “Fractionation and Standardization of Natural Products” for the ‘International Conference on Integrative & Personalized Medicine and 42nd Annual Conference of Indian Pharmacological Society’ December 9, 2009
- UGC Refresher Course [2008] on “Thrust Areas on Development of Natural Products” Organized by School of Natural Product Studies, Jadavpur University & Academic Staff College, Jadavpur University during November 20-December 10, 2008
- National workshop [2008] on ‘Natural Health Product-Opportunities and Challenges’ March 15, 2008. Organized by School of Natural Product Studies Jadavpur University.
- National workshop [2008] on “Instrumental Chromatography and Drug Discovery” December 8, 2008. Organized by School of Natural Product Studies Jadavpur University, in Association with Association of Pharmaceutical Teachers of India [APTI] Bengal Branch and Anchrom Enterprises (I) Pvt. Ltd, Mumbai.

21. Briefly highlight contributions in generating new knowledge, basic or applied.
- ❖ School of Natural Product Studies is working on dissemination of knowledge on promotion and development of natural products with international coordination and collaboration on globalizing local knowledge and localizing global technologies in the area of traditional medicine.
  - ❖ School credited 200 lectures in different international and national podium on leveraging innovations in traditional Indian medicine particularly on its validation for the safety, quality and efficacy with the evidence based scientific claims.
  - ❖ School has successfully organized 15 potential national and international conferences, workshops, seminars with the involvement of the scientists all over the world for promotion and development of traditional medicine based drug discovery program.
22. Future plans (in as much detail as possible):
- School of Natural Product Studies has the plan to start two new courses:
- ✓ Master Degree Courses on “Natural Product Studies ”
  - ✓ Certificate Courses on “Validation and Evaluation of Traditional Medicine”

These courses are based on dissemination of traditional knowledge on promotion and development of natural products with international coordination and collaborative support.

Major objectives of these courses will be to highlight on traditional medicine inspired drug discovery leading to development of therapeutic leads from natural resources. This will includes screening, evaluation, formulation and standardization of natural products, scientific validation of natural products, their quality control and standardization, evaluation of the safety related quality issues. Thus this will help to produce student /manpower with the knowledge on evidence based integrated approaches and drug development through new generation of phyto-pharmaceuticals.

## School of Nuclear Studies & Applications

1. Name of the School: NUCLEAR STUDIES & APPLICATIONS
2. Year of establishment: 2008
3. Faculty to which attached: FISLM
4. Names of programmes offered: Master of Nuclear Engineering, PhD
5. Courses in collaboration with other universities, industries, foreign institutions, etc.:  
Bhabha Atomic Research Center, Mumbai  
Variable Energy Cyclotron Center, Kolkata  
AREVA, France
6. Examination System: Semester
7. Number of teaching posts sanctioned, filled and actual:

|                     | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 2          |        |                              |
| Associate Professor | 1          |        |                              |
| Asst. Professor     |            |        |                              |
| Other               |            |        |                              |

8. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:  
Please see list of Academic Committete members in Annexure
9. Research thrust areas as recognized by major funding agencies:
  - Thermal Hydraulics
  - Reactor Control
  - Structural Integrity of Materials
  - Microwave Techniques
10. Inter-institutional collaborative projects and associated grants received  
f) National collaboration b) International collaboration  
National Collaboration: Jointly supervised Masters Dissertation with BARC  
International Collaboration: Jointly supervised Masters Dissertation with AREVA, France, AREVA sponsored PhD Fellowships
11. Publications: See Annexure for details
12. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted:  
Three-week Refresher Course on 'Frontiers in Power Engineering and Energy Sustainability', June, 2009
13. Awards / recognitions received at the national and international level by
  - Students (Give details)  
DAAD WISE INTERNSHIPS (Sumit Mukherjee, Aritra Roy, Amlan Kusum Molla)
14. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):  
International Workshop on Fuel Cell, 2008  
Three-week Refresher Course on 'Frontiers in Power Engineering and Energy Sustainability', June, 2009
15. List of doctoral, post-doctoral students and Research Associates  
a) from the host institution/university  
Shohan Banerjee (PhD Student)  
Dr. Saptarshi Das (PhD Awarded)  
b) from other institutions/universities
16. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).
  - With nuclear energy evolving as the only commercially viable substitute for fossil fuels even against the backdrop of Fukushima and Chernobyl, the School



has the potential for emerging as one of the major manpower training hubs for the nuclear industry

- The SNSA provides exposure to cutting edge technology in R&D establishments and Industry
- The Academic Committee has a large number of qualified members from major areas relevant to Nuclear Engg.

## School of Oceanographic Studies

1. Name of the School: OCEANOGRAPHIC STUDIES
2. Year of establishment: 1988, active from 2002 onwards after appointments
3. Faculty to which is attached: FISLM; Courses affiliated to faculty of Science
4. Names of programmes offered: PhD,MPhil, PG Diploma
5. Interdisciplinary programmes being conducted and other departments involved: It is an interdisciplinary school which draws resources from various subject disciplines of other three faculties
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: UG level course in web based digital platform on natural Resources, Environment and Sustainable development in collaboration with three Indian Universities and two Universities of Europe under a EU sponsored project
7. Details of programmes discontinued, if any, with reasons: None
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System: Semester
9. Participation of the department/ School in courses offered by other departments: To UG and PG courses of Geology, Mathematics , Civil Engg and various refresher courses of other departments and universities
10. Number of teaching posts sanctioned, filled and actual (Professor/Associate Professor/Asst. Professor/others):

|                     | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 2          | 2      | 2                            |
| Associate Professor | 1          | 0      | 0                            |
| Asst. Professor     | 3          | 1      | 1                            |
| Other               |            |        |                              |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name             | Qualification | Designation              | Specialization                                    | No. of Years of Experience | PhD/MPhil students, last 4 years        |
|------------------|---------------|--------------------------|---|----------------------------|---|
| Sugata Hazra     | Ph.D., M.Sc   | Professor & Director     | Geological Oceanography & Coastal Management      | 22                         | Ph.D. Awarded: 8 , Guiding: 8 M.Phil: 9 |
| Gautam Kumar Sen | Ph.D. M.SC    | Professor & Jt. Director | Physical Oceanography, Ocean Atmosphere Modelling | 21                         | Ph.D.Awarded: 4 Guiding : 4 M.Phil : 3  |
| Tuhin Ghosh      | Ph.D, M.Sc    | AssistantProfessor       | Geological Oceanography and Environment           | 10                         | Ph.D. Awarded: 1 Guiding: 6             |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:

|                        |                                 |
|------------------------|---------------------------------|
| Prof. A.D.Mukherjee    | J.U. Emeritus Professor         |
| Prof. R.N.Bhattacharya | Adjunct Professor               |
| Dr. J.R.Kayal          | C.S.I.R. Emeritus Professor     |
| Bijan Kumar Saha       | Visiting Professor & Researcher |
| Dr. Pranabes Sanyal    | Visiting Professor & Researcher |

13. Percentage of classes taken by temporary faculty – 40%
14. Programme-wise Student Teacher Ratio: M.Phil : 6: 1, Ph.D. 6: 1
15. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual: Technical Staff : 0, Administrative Staff : 1
16. Research thrust areas as recognized by major funding agencies: Climate Change Impact & Coastal Management, Ocean & Coastal Resources, Ocean atmosphere Modelling, Disaster Management

17. Number and names of faculty with ongoing projects titles and grants received  
 18. Inter-institutional collaborative projects and associated grants received  
 g) National collaboration b) International collaboration

| Names (P.I.)         | Name of the project   | Year      | Funding agency   | Grant in lakh   |
|----------------------|---|-----------|--|---|
| Prof.Sugata Hazra    | Bio Optical Studies and Ecological Modelling in case II water of West Bengal Coast towards Hilsa Fishery Forecast                   | 2013-2017 | INCOIS, Gov.of India   | 69.3056 (Instrument s Separate)                             |
|                      | Study of Carbon dynamics in Estuarine and near shore waters of Hooghly estuary  | 2012-2015 | NRSC, Gov.of India   | 63.32   |
|                      | Methodology for E-Flow Assessment of Sundarban ( India-Bangladesh)  | 2013-2014 | IUCN   | 9.0   |
|                      | Integrated Vulnerability Assessment of Kusumtal, Mousuni Island Sundarban   | 2013      | WWF & GIZ (through UAFSc)  | 4.7   |
|                      | Assessment of impact of Climate Change on ecology and Livelihood of Sundarban   | 2013      | CARITAS India  | 2.62  |
| Dr.Tuhin Ghosh       | ‘Assessing Health, Livelihoods, Ecosystem Services and Poverty Alleviation in Populous Deltas (Bangladesh Sundarban)’.              | 2013-2015 | EU: UK-Bangladesh-India consortium Under ESPA,Dfid,UK, NERC,ESRC   | ( GBP 90K)  |
|                      | Schematic Natural Hazards Zonation of Bihar using Geoinformatics’   | 2012-2013 | (IGC), London School of Economics, UK.   | ( GBP 23.20K)   |
|                      | Environmental Health and Climate Change Adaptation in Sundarbans’.  | 2012-2014 | In collaboration with <i>Save the Children-India</i> , funded by SIDA (Swedish International Development Agency) | 6   |
|                      | Deltaic Environment, vulnerability and climate change, the role of migration as an Adaptation & Policy implication                  | 2014-2018 |  | 2 million CA\$ including partners (approx. 600 Lakh for JU) |
| Bijan Kumar Saha     | Book writing project on “Marine Geology of the Andaman Sea”(P.I.B.K.Saha)   | 2012-2015 | Min.Earth.Sc.GOI   | 20  |
|                      | Geo Scientific studies in parts of West Bengal Coast and adjoining offshore-Inundation, vulnerability & coastal hazard preparedness | 2012-2015 | Ministry of Earth Sciences   | 27  |
| Ananda Dev Mukherjee | Book Writing “ History of Earth Sciences” Volume VI under History of Science in India” (P.I. Prof.A,D.Mukherjee)                    | 2013-2014 | Indian Academy of Science  | 04  |
| SOS                  | Sundarban Studies   | 2010-2012 | DST PURSE  | 7   |

Lead partner in Institutional Collaborative project on “Enhancing quality, access, and governance of undergraduate education in India” with University of Hyderabad, Siv Nadar and Ambedkar in India and Kings College ,London & University of Bologna, Italy : Total grants to JU : Rs.97 Lakhs

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (Give details.)  
 20. Research facility/centre run by the Dept./school/centre which has:
- state recognition : Remote Sensing and GIS Laboratory
  - national recognition : On board data acquisition on Carbon Flux and fisheries resource in the northern Bay of Bengal
  - international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies:
22. Publications: See Annexure
  - \* Number of papers published in peer reviewed journals (national / international): 77
  - \* Monographs : 4
  - \* Chapters in Books : 3
  - \* Edited Books : 1
  - \* Books with ISBN with details of publishers (separate list)
  - \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) In Google Scholar SH 41, TG=17, Others =25
  - \* Citation Index – range / average : SH 21-1, TG = 24-3
  - \* SNIP
  - \* SJR
  - \* Impact Factor – range / average : Range 2.75 - 0.8, average 1
  - \* h-index (Google Scholar) JRK : 13, SH 6 , TG 4
23. Details of patents and income generated:
24. Areas of consultancy and income generated:
25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):
 

Prof. S. Hazra served as advisor to O.N.G.C. Ganga, Bengal, Mahanadi basin

Prof. S. Hazra & Dr. Tuhin Ghosh visited National Oceanographic Centre and University of Southampton, UK. (June-2013)

Bangladesh University of Engineering & Technology (November-2012)

Dr.Tuhin Ghosh has a scheduled visit to University College of Dublin (UCD), Ireland during May-June 2014 under European commission Erasmus Mundus Programme on Environmental Policy for Disaster Risk Reduction

Dr.Tuhin Ghosh visited Freie University (Berlin), Deutsches GeoForschungsZentrum (GFZ) (Potsdam), Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH (Frankfurt) and United Nations University (Bonn), Germany during May 2009 under European commission Erasmus Mundus Programme on Natural Hazards and Its Impact on the Society

Dr. Tuhin Ghosh attended an International Conference on Tsunami Early Warning System for the Indian Ocean at GFZ-Potsdam, Germany during 18-19 May 2009

Dr. Ghosh and Dr.Hazra visited Dhaka, Bangladesh University of Engineering and Technology (BUET) for ESPA (UK) project (UK-Bangladesh-India consortium) during 17-24 October 2010, 26-28 May 2012.
26. Faculty serving in
  - a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)

*Prof. S.Hazra* has been serving as member of National task Force on Bay of Bengal large marine eco system (BOBLME).

*Mr. B.K.Saha* has been serving as

Chairman, Independent Expert Committee on Polymetallic Nodules Programme, Govt of India

Chairman, Independent Expert Committee on National Center of Antarctic and Ocean Research, Govt. of India

Member, Research Advisory Committee, Indian National Centre for Ocean Information Services, Ministry of Earth Sciences, Govt. of India

Member, Board of Management, OASTC, Andhra University,  
 Member, Board of Management, OASTC, Tamil University  
 Member, Board of Management, OASTC, Mangalore University  
 Member, Research Council, Centre for Earth Science Studies, Govt of Kerala  
 Reviewer for UNESCO World Heritage (earth sciences) nomination  
*Prof A.D.Mukherjee* has been serving as  
 Member, Academic Committee, IGNOU  
 Member, National Expert Committee for Community College programme  
 Chairperson, NAAC Peer Team  
 Chairperson, Quality Assurance Session of the International Conference on  
 Community College

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted: Refresher courses conducted : 2;  
 Classes taken in other refresher/orientation courses by faculty members: 36
28. Student projects
- percentage of students who have done in-house projects including inter-departmental projects: 80%
  - percentage of students doing projects in collaboration with other universities / industry / institute: 20%
29. Awards / recognitions received at the national and international level by
- Faculty
  - Doctoral / post doctoral fellows : First in UGC NET
  - Students (Give details)
30. Student profile programme-wise (in the Current Semester):

| Name of the Programme | Applications received | Admitted<br>Male   Female | Pass percentage (w.r.t. last graduating batch)<br>Male   Female |
|-----------------------|-----------------------|---------------------------|---|
| Ph.D                  | 30                    | 12   18                   |   |
| M.Phil                | 34                    | 3   5                     | 100   100   |
| PG.Diploma            | 62                    | 8   12                    | 100   100   |

31. Diversity of students

| Name of the Programme | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|-----------------------|--|--|---|------------------------------------|
| Ph.D                  | 3%                                     | 95%  | 2%  |                                    |
| M.Phil                | 0%                                     | 98%  | 2%  |                                    |
| PG Diploma            | 1%                                     | 97%  | 2%  |                                    |

32. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.  
 Present batch: PhD: NET: 10, JU-RET: 18

33. Student progression

| Student progression   | Percentage against enrolled             |
|---|---|
| UG to PG  | na                                      |
| PG to M.Phil.   | na                                      |
| M.Phil/ PG to Ph.D.   | 20%                                     |
| Ph.D. to Post-Doctoral  | 05%                                     |
| Employed  | Ph.D= 100%, M.Phil =80%, PG Diploma=90% |
| <ul style="list-style-type: none"> <li>Campus selection</li> <li>Other than campus recruitment</li> </ul> |   |
| Entrepreneurs   |   |

34. Diversity of staff

|  |     |
|--|-----|
| Percentage of faculty who are graduates  |     |
| of the same university                   | 66% |
| from other universities within the State | 33% |
| from universities from other States      |     |
| from universities outside the country    |     |

35. Present details of departmental infrastructural facilities with regard to
- Library: Departmental, Acute Shortage of Space, E Books provided
  - Internet facilities for staff and students: existing
  - Total number of class rooms: 2
  - Class rooms with ICT facility: 2
  - Students' laboratories: Combined with research, one outside the campus on hire
  - Research laboratories: 3; acute shortage of space

36. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university      b) from other institutions/universities

|     | Existing Doctoral Students | Host/Other Universities |
|-----|----------------------------|-------------------------|
| 1.  | Kaberi Samanta             | Other                   |
| 2.  | Bimalesh Samanta           | Other                   |
| 3.  | Anirban Mukhopadhyay       | Other                   |
| 4.  | Anirban Akhand             | Other                   |
| 5.  | Paramita Saha              | Other                   |
| 6.  | Dola Chakraborty           | Other                   |
| 7.  | Abhra Chanda               | Other                   |
| 8.  | Madhumita Das              | Other                   |
| 9.  | Sourav Maity               | Other                   |
| 10. | Rituparna Hazra            | Other                   |
| 11. | Jyotiskana Barik           | Other                   |
| 12. | Aditi Bose                 | Other                   |
| 13. | Avishek Chatterjee         | Other                   |
| 14. | Poulomy Chakraborty        | Other                   |
| 15. | Sandip Giri                | Other                   |
| 16. | Sourav Das                 | Host (M.Phil)           |
| 17. | Tanaya Ghosh               | Host ( M.Sc)            |
| 18. | Surja kanta Mishra         | Host ( M.Sc)            |
| 19. | Gopal Mondal               | Host ( M.Sc)            |
| 20. | Sohini Roy                 | Host ( M.Sc)            |
| 21. | Sudip Manna                | Host (PG.Diploma)       |
| 22. | Sachinandan Dutta          | Host (M.Phil)           |
| 23. | Sampad G. Ghanta           | Host (M.Phil)           |
| 24. | Tuhin Bhadra               | Host (M.Phil)           |

37. Number of post graduate students getting financial assistance from the university. (Give details.) : From funding agencies, through the university : All Ph.D. and M.Phil students

38. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes, conducted in 2013 involving experts from other disciplines and IIT,KGP. A need for starting an M.Tech programme in Oceanography has been discussed .It is felt the appointment to the vacant post be made emphasizing teaching in Engineering disciplines. In house discussion and deliberation with the students regarding the on going PG.Diploma programme on Remote Sensing and GIS indicated a need for upgrading the existing programme to M.Tech level.

39. Does the department obtain feedback from

- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes, through academic committee. Syllabus and curriculum and research directions are modified accordingly

- students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Through interactions with students and their feedback. Faculty members are advised or changed accordingly.
  - alumni and employers on the programmes offered and how does the department utilize the feedback? Through the university executive committee and court
40. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Special lectures, Seminars and workshops are organized with national experts and visiting foreign dignitaries on a regular basis.
41. List the teaching methods adopted by the faculty for different programmes.  
Class room teaching involving ICT and tutorial  
Self learning of students using open source materials and e-books.  
Practical training and field work (compulsory)  
Project work.  
Seminar, work shop, lectures by visiting experts/foreign dignitaries.  
Publications
42. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Through interaction and feed back from the students and stake holders
43. Highlight the participation of students and faculty in extension activities.  
Research students are participants of the field based extension research activities and co authors of reports/publications
44. Give details of “beyond syllabus scholarly activities” of the department.
- Retrofitting of wind and solar power batteries in fishing trawler as pilot
  - Training of fishermen with GPS to follow satellite based Marine fishery forecasts
  - Promoting Policy legislation on Hilsa sanctuary by Govt. of West Bengal
  - Media briefing on disaster management
  - Popular Science lectures on Impact of climate Change
45. Briefly highlight contributions in generating new knowledge, basic or applied.  
Rate of Sea level rise and impact of the climate change has been first evaluated by the department under the MoEF sponsored NATCOM project. This with estimates of environmental migrants from vanishing islands have received national and international attention. Reported in many countries in different media
46. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).

| STRENGTH  | WEAKNESS   | OPPORTUNITIES  | CHALLENGES  |
|---|--|--|---|
| 1. Interdisciplinarity                            | Mindset of students and employers against interdisciplinary courses                                  | New faculty of Interdisciplinary Studies in the university             | Prohibitive cost of instrumentation and on board research facilities                            |
| 2. Visibility in national and international arena | Shortage of Space and Faculty  | Collaborative research in international arena                          | Difficulties in acquisition of new space for library and laboratories                           |
| 3. Collaboration with national laboratories       | Long lead time and cumbersome process of new faculty recruitment                                     | A new campus of the university with provision for adequate space       | Approval for new faculty and technical staff positions and courses                              |
| 4. Credentials for innovative research            | Low payment to guest faculties as per norms. No reimbursement of plane fare for outstation faculties | Availability of Satellite data on ocean and improved ocean observation | Absence of appropriate post graduate courses to feed in researches in the field of Oceanography |
| 5. Research students of adequate number           | Lack of Employment opportunity of students in the country  | Accelerated thrust on climate Change adaptation studies                | Policies on Ocean or Coastal management yet to involve Universities/ academia                   |

47. Future plans (in as much detail as possible):

With the help of a newly-created faculty structure and the legal and statutory provisions of the Faculty of Interdisciplinary Studies, the school envisages to design new M.Tech courses in Oceanography, Remote Sensing & Disaster Management. Taking advantage of experiences generated from the ongoing EU-sponsored education quality improvement programme, a new paradigm of teaching- learning will be developed through web -based modules on an interactive virtual platform.

The teaching strength of the School will be doubled to reach 12 in the coming years with A major thrust to recruit young researchers from the field of Engineering & Technology and Marine Biology will be made. Efforts will be on for adequate provisioning of space. The possibility of acquiring space in the new campus will be explored with the support of the administration. Efforts will be made to reduce the time gap (often more than a year) between creation /vacancy in position and recruitment.

Students of Ph.D. and M.Phil would be encouraged to upload their theses in a portal for peer information and global dissemination. To take up the teaching learning-research process at the international level, an Interdisciplinary journal may be commissioned in the field 'Ocean-Water and Environment'. In addition to industry or consortium sponsored research, 'reverse researches' will be emphasized to address existing problems of the society.

Sea going facilities for the School need to be strengthened many fold. In addition to the existing practice of hiring fishing trawlers, help will be sought from the Kolkata Port Trust, Indian Coast Guard and Navy will be sought through active deliberations. NIO, NIOT and other national bodies will be approached to conduct cruises in the northern Bay of Bengal (beyond Visag) so that the researchers and students can avail the national facilities.



## School of Water Resources Engineering

1. Name of the School: WATER RESOURCES ENGINEERING
2. Year of establishment: 1987
3. Faculty to which the School is attached: FISLM
4. Names of programmes offered: PG, PhD, Integrated PhD
5. Interdisciplinary programmes being conducted and other departments involved:
  - Four Semester M.E. (Water Resources and Hydraulic Engineering)
  - Six Semester M.E. (Water Resources and Hydraulic Engineering)
  - Ph.D. (Engineering /Science)
6. Examination System: Semester
7. Number of teaching posts sanctioned, filled and actual:

| Post                | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | One        | One    | One                          |
| Associate Professor | Nil        | Nil    | Nil                          |
| Asst. Professor     | One        | One    | One                          |
| Other (Contractual) | Three      | Three  | Three                        |

8. Faculty profile:

| Name                      | Qualification   | Designation                       | Specialization   | Years of Experience | PhD/MPhil students, last 4 years |
|---------------------------|-----------------|-----------------------------------|--|---------------------|----------------------------------|
| Prof. (Dr.) Asis Mazumdar | Ph.D. (Engg.)   | Director and Professor            | Water Resources Engineering and Management, Environmental Hydraulics, Hydrology and Limnology, Fluid Machinery | 24                  | Ten                              |
| Dr. Debasri Roy           | Ph.D. (Science) | Associate Professor               | Water Resources System and Management, Hydrological Modelling, Climate Change, Environmental Management        | 23                  | Two                              |
| Dr. Pankaj Kumar Roy      | Ph.D. (Engg.)   | Assistant Professor (Contractual) | Hydrological and Climate Change Modeling, Environmental Engineering, Water Resources and Hydraulic Engineering | 8                   | Six                              |
| Mr. Subhasish Das         | M.E.            | Assistant Professor Contractual   | Free Surface Flow and River Hydraulics, Applied Hydraulic Transients   | 7                   | Nil                              |
| Dr. Rajib Das             | Ph.D. (Engg.)   | Assistant Professor (Contractual) | Open Channel Flow and Fluvial Hydraulics   | 4.5                 | Nil                              |

9. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:

| Name                          | Qualification | Designation     | Specialization   | Years of Experience | PhD/MPhil students, last 4 years |
|-------------------------------|---------------|-----------------|--|---------------------|----------------------------------|
| Prof. (Dr.) Arunabha Majumder | Ph.D. (Engg.) | Emeritus Fellow | Sanitation Engineering, Water Works Engineering, Environmental Engineering | 24                  | Nil                              |

10. rogramme-wise Student Teacher Ratio: 1:21

11. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual:

|                                    | Sanctioned | Filled | Actual |
|------------------------------------|------------|--------|--------|
| Academic Support Staff (Technical) | Three      | Three  | Three  |
| Administrative Staff               | Nil        | Nil    | Nil    |

12. Research thrust areas as recognized by major funding agencies:

- i) Development of Model for Arsenic Sludge Safe Disposal
- ii) Artificial Recharging of Aquifer

- iii) Limnological Study with special emphasis on Thermal Stratification in Turbulent Structure
- iv) Riverine Bank Stability Analysis
- v) Soil Moisture Conservation
- vi) Soil Water Plant Relationship
- vii) Surge Profiles for Water Intake Pump System of a Thermal Power Plant
- viii) Sedimentation Transport Mechanism after installation of a Dam
- ix) Impact of Forested Watershed on Stream Flow and Water Quality
- x) Impact of Leaching from Municipal Solid Waste Dumping Station on an Urban Watershed
- xi) Pressure Transients Analysis in a Metro City Water Supply System
- xii) Simulation and Water Assessment of Indian River Basins with Distributed and Lumped Modeling
- xiii) Artificial Neural Network Analysis (ANN) for Riverine and Channel Flow Systems
- xiv) Groundwater Flow Simulation by Ground Water Modeling System (GMS) and insitu Validation by Vertical Electrical Sounding (VES)
- xv) Development of Low Cost Model for Filtration Unit in a Rural Community
- xvi) Impact of Climate Change on Water Resources
- xvii) Urban Hydrology including Storm Drainage
- xviii) Rainwater Harvesting
- xix) Irrigation and Drainage Development Plan
- xx) Sewer Transport System
- xxi) River Basin Development
- xxii) Wetland Management and Development
- xxiii) Investigation of Feasibility of Inland Water Transport
- xxiv) Development of Alternative Energy Sources, e.g., Tidal Power, Pump Storage Plants, Micro Hydel Plants etc.
- xxv) Investigation of the Drinking Water Supply System.
- xxvi) Investigation of the Contamination of Groundwater Sources in West Bengal
- xxvii) Design and Development of Source and Water Intake System for Drinking Water Supply and Treatment Plant.
- xxviii) Development of Low Cost Potable Water Supply System
- xxix) Watershed Management
- xxx) Initiation of Benchmarking of Irrigation Projects for Performance Improvement
- xxxi) Study of Travel of Pollutant from on Site Sanitation Leach Pits

13. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

| Faculty name   | Title of the Project  | Funding Agency   | Grants received |
|--|---|--|-----------------|
| Prof. Asis Mazumdar (PI)                               | Study to Develop Manual on Design and Structure for Soil Moisture Conservation Measures in JFM areas of Jharkhand   | National Forestation & Eco-development Board, MoEF, Govt. of India                                   | ˆ 2.5 lakhs     |
| Prof. Asis Mazumdar (PI)                               | Carbon Sequestration Project in an Urban Area- Kolkata Metro City   | Department of Environment, Govt. of West Bengal  | ˆ 15.0 lakhs    |
| Prof. Asis Mazumdar (PI),<br>Dr. Pankaj Kumar Roy (CI) | Assessment of river runoff in the flood prone river systems of the eastern and north- eastern regions using HEC-HMS model and compare with draught prone river basins | NATCOM Project Management Cell, India's Second National Communication to the UNFCCC, MoEF- UNDP- GEF | ˆ 15.0 lakhs    |

|  |  |   |                   |
|--|--|---|-------------------|
| Prof. (Dr.)<br>Asis<br>Mazumdar<br>(PI)<br>Prof. (Dr.)<br>Arunabha<br>Majumder<br>(CPI)<br>Dr. Debasri<br>Roy (CI), Dr.<br>Pankaj Kumar<br>Roy CI, Shri<br>Subhasish Das<br>(CI) | Field Application and Management of Community<br>based Arsenic Removal Units in Rural Areas of<br>West Bengal  | Department of Science &<br>Technology, Ministry of<br>Science & Technology, Govt.<br>of India               | ~ 20.0<br>lakhs   |
| Prof. (Dr.)<br>Asis<br>Mazumdar<br>(PI),<br>Prof. (Dr.)<br>Arunabha<br>Majumder<br>(JPI),<br>Dr. Pankaj<br>Kumar Roy<br>(CI)   | Assessment of Pollution from different sources:<br>Status of Municipal Solid Waste (MSW) collection,<br>treatment and disposal as per MSW rules in the state<br>of West Bengal | West Bengal Pollution Control<br>Board, Dept. of Environment,<br>Govt. of West Bengal                       | Rs. 5.75<br>lakhs |
| Prof. Asis<br>Mazumdar<br>(PI), Prof.<br>Arunabha<br>Majumder<br>(Jt.PI) and Dr.<br>Pankaj Kumar<br>Roy (CI)   | Study on Pollution Load Assessment in River Ganga  | Central Pollution Control<br>Board, Govt. of India  | ~ 12.0<br>lakhs   |
| Prof. Asis<br>Mazumdar<br>(PI), Prof.<br>Arunabha<br>Majumder<br>(Jt.PI) and Dr.<br>Pankaj Kumar<br>Roy (CI)   | Treatability Study of Distillery Effluent through<br>Bench Scale Laboratory Model for Removal of<br>Color  | Riga Sugar Company Ltd.-Co  | ~ 1.83<br>lakhs   |
| Prof. Asis<br>Mazumdar<br>(PI), Prof.<br>Arunabha<br>Majumder<br>(Jt.PI) and Dr.<br>Pankaj Kumar<br>Roy (Jt.PI)  | Development of Appropriate Methods for Safe<br>Disposal of Arsenic-Rich Sludge and Media   | Public Health Engineering<br>Department, Govt. of West<br>Bengal  | ~ 7.06<br>lakhs   |
| Prof. Asis<br>Mazumdar<br>(PI)   | Carbon Sequestration through Afforestation for<br>Mitigating CO2 emission from Thermal Power<br>Station  | Department of Science &<br>Technology, Govt. of India   | ~ 30.75<br>lakhs  |
| Prof. (Dr.)<br>Asis<br>Mazumdar<br>(PI)  | Noise Reduction of Highway Traffic in Kolkata by<br>Tree Belts   | WBPCB, Dept. of<br>Environment, Govt. of West<br>Bengal   | ~ 6.0<br>lakhs    |
| Prof. Asis<br>Mazumdar<br>(PI)   | Soil carbon and nutrient accumulation under forest<br>plantations in Jharkhand State   | National Afforestation & Eco-<br>development Board, Ministry<br>of Environment & Forests,<br>Govt. of India | ~ 3.0<br>lakhs    |

|  |   |   |                |
|--|---|---|----------------|
| Prof. Asis Mazumdar (PI)   | Role of Watershed Development and Management through Rainwater Harvesting and Artificial Recharge of Ground Water and Agro-Forestry in Parts of Potka and Dhalbhumgarh Blocks of East Singhbhum Districts, Jharkhand  | National Afforestation & Eco-development Board, Ministry of Environment & Forests, Govt. of India | ₹ 3.0 lakhs    |
| Prof. Asis Mazumdar (PI), Prof. Arunabha Majumder (Jt.PI) and Dr. Pankaj Kumar Roy (Jt.PI)         | Development of Cost Effective Technology for Recharging in Over-exploited Groundwater Resources in Rural Areas in West Bengal   | Department of Science & Technology (Water Technology Initiative), Govt. of India                  | ₹ 39.524 lakhs |
| Dr. Debasri Roy (PI), Prof. Asis Mazumdar (CI), Dr. Pankaj Kumar Roy (CI), Shri Subhasish Das (CI) | Effect of Climate Change on Water Resources of Some important River Basins in Eastern India   | Ministry of Water Resources, Govt. of India   | ₹ 19.06 lakhs  |
| Prof. Asis Mazumdar (PI)   | Hydro-geological Study of Sub-surface Water Flow/Storage Characteristics for Creation of Sustainable Source on Rainfed River for Semi-Arid and Fluoride affected Blocks in Connection with comprehensive Water Security Plan for Damodar & Kangsabati River under Purulia Districts | Public Health Engineering Department, Govt. of West Bengal,                                       | ₹ 62.8 lakhs   |
| Prof. Asis Mazumdar (PI)   | Study of forest policies, strategies and silviculture practices to reduce vulnerability & enhance resilience of forest eco-system to project climate change in Andaman  | National Afforestation & Eco-development Board, Ministry of Environment & Forests, Govt. of India | ₹ 3.0 lakhs    |
| Prof. Asis Mazumdar (PI)   | Study on Mapping of forest Hydrology through application of GIS in Andaman  | National Afforestation & Eco-development Board, Ministry of Environment & Forests, Govt. of India | ₹ 4.0 lakhs    |
| Prof. Asis Mazumdar (Coordinator)  | India-European Union Research Project Energy Efficient, community-based water and wastewater treatment systems for deployment in India (Eco-India)  | Department of Science & Technology, IMRCD, Eco-India  | ₹ 2.04 crores  |

14. Research facility/centre run by the Dept./school/centre which has:

- state recognition Yes
- national recognition Yes
- international recognition Yes

15. Publications:

- \* Number of papers published in peer reviewed journals (national/international)  
National : 19 International : 46
- \* Monographs
- \* Chapters in Books : 13
- \* Edited Books : 2
- \* Books with ISBN with details of publishers: Nil
- \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)  
Scopus: 23
- \* Citation Index – range / average Range : 0 - 5
- \* SNIP Range : 0 - 1.141, average = 0.3454

- \* SJR Range : 0 - 1.107, average = 0.2343
  - \* Impact Factor – range / average Range : 0.596 – 2.497, average = 1.3379
  - \* h-index 2
16. Areas of consultancy and income generated: Water Resources & Hydraulic Engineering, Amount: Rs. 146 lakhs (approx)
17. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):
- + Indian Plumbing Association appreciated and recognized Prof. (Dr.) Mazumdar's valuable contribution towards the creation of the Uniform Plumbing Code-India and other technical publication by conferring the felicitation plaque on 18<sup>th</sup> November, 2011 in 15th Indian Plumbing Conference at New Delhi.
  - + Prof. (Dr.) Asis Mazumdar received a letter of appreciation from the Technical Education & Training Department, Govt. of West Bengal for Preparation of Course Curriculum of the Trade Course namely "Industrial Hydraulics & Pneumatics" on 17<sup>th</sup> September, 2009.
  - + Ministry of Environment & Forest (MoEF, GoI) has designated Prof. (Dr.) Asis Mazumdar as Evaluator for the nomination from the state of West Bengal submitted under Indira Gandhi Priyadarshini Vriksha Mitra (IPVM) award for the year 2009.
  - + Dr. Pankaj Kumar Roy has been successfully completed two months (June and July, 2008) Summer Internship at the University of Pisa, Italy supported by a scholarship established by a council of the Master Course in Hydraulic, Transportation and Territory Engineering and the work entitled "Plunge Pool 3D Jet Scour in the Presence of Protection Structure" at the Hydraulic Laboratory, Department of Civil Engineering under the guidance of Prof. Stefano Pagliara.
18. Faculty serving in
- a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)
  - a) National committees
    - (i) Prof. (Dr.) Asis Mazumdar: National Executive Committee Member of the Indian Plumbing Association
    - (ii) Prof. (Dr.) Asis Mazumdar: Member of the rejuvenation Programme of the Wuler Lake at Kashmir committee constituted by the J & K Government.
    - (iii) Prof. (Dr.) Asis Mazumdar: Expert entrusted by the National River Conservation Directorate under Ministry of Environment & Forest, Govt. of India for evaluation of DPRs for Projects sponsored by National Ganga River Basin Authority (NGRBA) related to National River Conservation Plan for the eastern and north eastern states.
  - b) International committees
    - (i) Prof. (Dr.) Asis Mazumdar: Member of the Core Committee of Eco-India Project
  - c) Editorial Boards
    - (i) Prof. (Dr.) Asis Mazumdar: Member of the Editorial board of the journal "REASON- A Technical Magazine".
  - d) any other
    - (i) Prof. (Dr.) Asis Mazumdar is a reviewer of Journal of Hydro-Environmental Research, Elsevier Science.
    - (ii) Prof. (Dr.) Asis Mazumdar acted as a Technical Reviewer of the journal of Institution of Engineers (India)
    - (iii) Indian Plumbing Association appreciated and recognized Prof. (Dr.) Asis Mazumdar's valuable contribution towards the creation of the Uniform Plumbing

- Code-India and other technical publication by conferring the felicitation plaque on 18th November, 2011 in 15th Indian Plumbing Conference at New Delhi.
- (iv) Prof. (Dr.) Asis Mazumdar is a Base Member of the International Association of Hydraulic Engineering and Research (IAHR).
  - (v) Prof. (Dr.) Asis Mazumdar has been elected *Fellow of the West Bengal Academy of Science and Technology*.
  - (vi) Prof. (Dr.) Asis Mazumdar was nominated as a Technical Reviewer of the journal of Institution of Engineers (India).
19. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted:
- i) Three Weeks Refresher Training Course on “Advances in Water Resources Technology & Management” under the auspices of Academic Staff College (ASC), Jadavpur University sponsored by UGC at School of Water Resources Engineering, Jadavpur University during 1 - 21<sup>st</sup> Dec., 2009.
  - ii) One Week Refresher Training Course for Indian Forest Service (IFS) officers on “Role of Forestry in Conservation, Development and Management of Water Resources” sponsored by Ministry of Environment and Forests, Government of India (in collaboration with RC: NAEB: J.U.) at Conference Hall, Regional Centre, Jadavpur University during 1-5<sup>th</sup> Dec., 2008.
20. Student projects
- percentage of students who have done in-house projects including inter-departmental projects 83%
  - percentage of students doing projects in collaboration with other universities / industry / institute 17%
21. Awards / recognitions received at the national and international level by
- Faculty  
*Prof. Asis Mazumdar*
    - (i) Recognizing the importance of micro and small enterprises, which constitute an important segment of Indian Economy, Govt. of India has introduced a scheme for providing support for entrepreneurial and Managerial Development of SMEs through Incubators in order to support and promote untapped creativity of the individual innovations. Based on the proposal submitted by Prof. Asis Mazumdar in response to the advertisement of this scheme, Jadavpur University has been selected by the Ministry of MSME, Govt. of India as the Host Institute of the Business Incubator. Prof. Mazumdar has been appointed as the Member Secretary of the Business Incubator, Jadavpur University.
    - (ii) Letter of appreciation from the Technical Education & Training Department, Govt. of West Bengal for Preparation of Course Curriculum of the Trade Course namely “Industrial Hydraulics & Pneumatics” on 17th September, 2009.
    - (iii) Ministry of Environment & Forest (MoEF, GoI) has designated as Evaluator for the nomination from the state of West Bengal submitted under Indira Gandhi Priyadarshini Vriksha Mitra (IPVM) award for the year 2009.
    - (iv) Letter of appreciation from Jadavpur University for the Preparation of e-learning course materials for all graduate students for their six-month compulsory course on ‘Environmental Studies’.
    - (v) Reviewer of Journal of Hydro-Environmental Research, Elsevier Science.
    - (vi) Acted as a Technical Reviewer of the journal of Institution of Engineers (India)
    - (vii) Indian Plumbing Association appreciated and recognized Prof. Mazumdar’s valuable contribution towards the creation of the Uniform Plumbing Code-India and other technical publication by conferring the felicitation plaque on 18th

November, 2011 in 15th Indian Plumbing Conference at New Delhi.

- Doctoral / post doctoral fellows
    - i) DST Fast Track Young Scientist Award
    - ii) DST Women Scientist Fellowship
    - iii) Maulana Azad National Fellowship, UGC
    - iv) National Doctoral Fellowship (NDF) awarded by AICTE
    - v) State Government Fellowship
    - vi) CSIR Fellowship
  - Students (Give details)
22. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):
- i) Celebration of “World Environment Day” (Theme: Many Species One Planet One Future) in association with RC:NAEB, J.U.) sponsored by MoEF, GoI and Jadavpur University at Jadavpur university on 5<sup>th</sup> June, 2010.
  - ii) Observation of “World Water Day” (Theme: Clean Water for a Healthy World”) (Raising Awareness on Water Quality and Water Quantity) (Jointly organised with RC:NAEB, J. U.) in association with West Bengal Voluntary Health Association and sponsored by MoEF, GoI and Jadavpur University at Malatipur Village, Lalgola Block, Murshidabad District on 22<sup>nd</sup> March, 2010.
  - iii) Annual Workshop on “Carbon Sequestration by Plantation, Carbon Footprint, Certification, Risk Assessment and Responsible Procurement” Jointly organized with Regional Centre, NAEB, MoEF, GoI, Jadavpur University and Global Change Programme, Jadavpur University at Dr. K.P. Basu Memorial Hall, Jadavpur University on 21<sup>st</sup> August, 2009.
  - iv) Celebration of “World Environment Day” (Theme: Your Planet Needs You-UNite to Combat Climate Change) in association with RC:NAEB, J.U.) sponsored by MoEF, GoI and Jadavpur University at Dr. K.P. Basu Memorial Hall, Jadavpur university on 5<sup>th</sup> June, 2009.
  - v) Celebration of “World Water Day” (Theme: Transboundary Water - “Shared Water - Shared Opportunities”) (Jointly organised with Indian Association of Hydrologists (IAH), West Bengal Regional Centre, Society of Civil Engineers, J.U. and RC:NAEB, J. U.) sponsored by MoEF, GoI and Jadavpur University at Dr. H. L. Roy Memorial Hall, Auditorium of the Institute of Chemical Engineers, Jadavpur University on 20<sup>th</sup> March, 2009.
  - vi) Celebration of “World Wetland Day” (In collaboration with Regional Centre, National Afforestation and Eco-Development Board (MoEF, GoI), Jadavpur University) at East Kolkata Wetland (Ramsar Site), West Bengal on 2<sup>nd</sup> February, 2009.
  - vii) National Conference on “Integrated Water and Wastewater Management” (NCIWWM-2008) (In Association IAEM, NEERI, Nagpur) at Dr. Triguna Sen Auditorium, Alumni Association Hall, Dr. K. P. Basu Memorial Hall and Dr. G. C. Sen Memorial Hall, Jadavpur University during 20 – 22<sup>nd</sup> November, 2008.
  - viii) A Workshop on “Water, Solid Waste Management and Climate Change” (Jointly organised with RC:NAEB, J. U. and Gokhale Memorial Girls’ School) at Sarala Ray Memorial Hall, Kolkata on 9<sup>th</sup> August, 2008.
  - ix) Celebration of “World Environment Day” (Theme: Climate change with a focus on moving towards a low carbon economy and lifestyle) (Slogan: Kick the CO<sub>2</sub> Habit! Towards a Low Carbon Economy) (Jointly organised with SOES, J.U. and RC:NAEB, J. U.) sponsored by MoEF, GoI and Jadavpur University at Dr. K.P. Basu Memorial Hall, Jadavpur University on 12<sup>th</sup> June, 2008.

23. Code of ethics for research followed by the school:

The School of Water Resources Engineering (SWRE) gives particularly high priority to research as one of its most important contributions to Indian society and to the international community. In this, the School pursues a research ethos that promotes exceptional expertise as well as ethical responsibility in the quest for knowledge and the development, conservation and transfer of such knowledge. Consequently, all members of staff and students of the School, like excellent researchers throughout the world, are required always to strive for the highest standards of excellence and morality in any research activities. The Code of Ethics for Research serves as an important guideline to inspire researchers at SWRE to maintain high ethical standards in all research activities.

In particular, the following basic rights of researchers are recognised and promoted as far as possible with a view to creating an environment where research can flourish and high quality research outputs can be promoted:

- Caring research environment with efficient policies, management, structures, support services and programmes to promote research
- Utilisation of the School's facilities, services and resources for research.

Researchers at the School have the following responsibilities:

- *Social responsibility*, in terms of which researchers accept the responsibility to address, where possible, by research and technology development the pressing problems in the broader Indian communities.
- *Justice*, in terms of which researchers accept the responsibility for the equitable treatment of all individuals and organisations involved in the research process.
- *Benevolence*, in terms of which researchers should be inspired not only to protect others from harm, but also to ensure and promote the well-being of all those affected by research.
- *Respect for the individual*, where the focus is on the interaction between the researcher and all people he/she may encounter during the research process. The researcher is required to recognise the dignity and autonomy of all individuals and to maintain humanity as well as freedom of choice in all situations.
- *Professionalism*, in terms of which it is recognised that researchers form part of a specific profession and therefore should exhibit professional responsibilities such as integrity, quality and accountability.

24. Student profile programme-wise (in the Current Semester):

| Name of the Programme   | Applications received | Admitted |        | Pass percentage (w.r.t. last graduating batch) |        |
|---|-----------------------|----------|--------|--|--------|
|   |                       | Male     | Female | Male   | Female |
| Four Semester M.E. in Water Resources and Hydraulic Engineering | 213                   | 15       | 3      | 75   | 25     |
| Six Semester M.E. in Water Resources and Hydraulic Engineering  | 107                   | 12       | 6      | 85   | 15     |

25. Diversity of students

| Name of the Programme (refer to question no. 4)                 | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|------------------------------------|
| Four Semester M.E. in Water Resources and Hydraulic Engineering | 17                                     | 73   | 6   | 0                                  |
| Six Semester M.E. in Water Resources and Hydraulic Engineering  | 44                                     | 39   | 17  | 0                                  |



26. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

| Name of the Programme                             | GATE qualified students |
|---|-------------------------|
| M.E. in Water Resources and Hydraulic Engineering | 13                      |

27. Student progression

| Student progression             | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG                        | Not applicable              |
| PG to M.Phil.                   | Not applicable              |
| PG to Ph.D.                     | 11                          |
| Ph.D. to Post-Doctoral          | 0                           |
| Employed                        |                             |
| • Campus selection              | 17                          |
| • Other than campus recruitment | 66                          |
| Entrepreneurs                   | 0                           |

28. Diversity of staff

| Percentage of faculty who are graduates  |    |
|--|----|
| of the same university                   | 40 |
| from other universities within the State | 20 |
| from universities from other States      | 40 |
| from universities outside the country    | 0  |

29. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period (2008 – 2013): Ph.D. = 2

30. Present details of departmental infrastructural facilities with regard to

a) Library

- No. of Titles of the books in the Library of School: 605
- No. of Volumes of the books in the Library of School: 833
- No. of National Journals in the Library of School: 182
- No. of International Journals in the Library of School: 108
- No. of e Journals: 25
- Seating Capacity in the Library of School: 5

b) Internet facilities for staff and students 7 and 10 computers, respectively

c) Total number of class rooms One on shared basis

d) Class rooms with ICT facility Nil

e) Students' laboratories Two

f) Research laboratories Two

31. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

Ph. D. Thesis (Completed)

| Sl. | Title  | Year of award       | Candidate                 | Name of Supervisor/s   |
|-----|--|---------------------|---------------------------|--|
| 1.  | Vulnerability Assessment of Teesta River System under Changed Climate Scenario   | 2011<br>(Ph.D.Engg) | Mr. Rabindranath Barman   | Prof. (Dr.) Asis Mazumdar & Dr. Pankaj Kumar Roy               |
| 2.  | Watershed Modelling of River Damodar with the help of Neural Network and Genetic Algorithm                                 | 2010<br>(Ph.D.Engg) | Mr. Mrinmoy Majumder      | Prof. (Dr.) Asis Mazumdar & Dr. Pankaj Kumar Roy               |
| 3.  | Study of the Status of a Lake and Simulation of its Pollution Dynamics with Particular Reference to Mirik Lake, Darjeeling | 2010<br>(Ph.D.Engg) | Mr. Arun Kanti Biswas     | Prof. (Dr.) Asis Mazumdar, A. K. Mishra & Dr. Pankaj Kumar Roy |
| 4.  | Cohesive Sediment Transport Mechanism Analysis   | 2010<br>(Ph.D.Engg) | Mr. Sanchayan Mukherjee   | Prof. (Dr.) Asis Mazumdar                                      |
| 5.  | Investigation on Gaseous Flow Characteristics in Parallel Plate Micro Channel and Micro Tubes                              | 2009<br>(Ph.D.Engg) | Mr. Nirmalya Bayal        | Prof. (Dr.) Asis Mazumdar & Dr. Arunabha Chanda                |
| 6.  | Performance Evaluation of Roughing Filters for Cost Effective Rural Water Supply System                                    | 2009<br>(Ph.D.Engg) | Mr. Biswajit Mukhopadhyay | Prof. (Dr.) Asis Mazumdar & Dr. Goutam Banerjee                |

**Ph. D. Thesis Ongoing (Registered)**

| Sl. No. | Title   | Year of Registration                | Candidate             | Name of Supervisor/s  |
|---------|---|-------------------------------------|-----------------------|---|
| 1.      | Integrated Cost-effective Model for Augmenting Sustainable Water Supply through Surface and Groundwater Interaction in Hydrological and Hydrogeologically Critical Areas of West Bengal         | 2012<br>(Ph.D.Engg.)                | Mr. Gourab Banerjee   | Prof. (Dr.) Asis Mazumdar, Dr. Pankaj Kumar Roy & Dr. Arunabha Majumder |
| 2.      | Characteristics of Vortices in Equilibrium Scour Holes at Interfering Piers   | 2012<br>(Ph.D.Engg.)                | Mr. Hasanur Jaman     | Prof. (Dr.) Asis Mazumdar   |
| 3.      | Study of the Impact of Sediment Transport Dynamics on Clear Water Scour   | 2011<br>(submitted)<br>(Ph.D.Engg.) | Mr. Subhasish Das     | Prof. (Dr.) Asis Mazumdar   |
| 4.      | A Study on Groundwater Assessment, Development and Management in the State of Tripura   | 2011<br>(Ph.D.Engg.)                | Mr. Jayanta Deb Barma | Prof. (Dr.) Asis Mazumdar, Dr. Pankaj Kumar Roy & Dr. Manish Pal        |
| 5.      | Simulation of Carbon Sequestered in Fast Growing Tree Species and Development of management Plan for a Participatory Forest Management Area of West Bengal to Adapt Clean Development Mechanism | 2008<br>(Ph.D.Engg.)                | Mr. Sanjay Bala       | Prof. (Dr.) Asis Mazumdar   |

**b) from other institutions/universities**

**Ph. D. Thesis (Completed)**

| Sl. | Title  | Year of award        | Candidate           | Name of Supervisor/s                        |
|-----|--|----------------------|---------------------|---|
| 1.  | A Critical Study on Drinking Water Supply Management in Agartala City  | 2010<br>(Ph.D.Engg)  | Mr. Manish Pal      | Dr. Pankaj Kumar Roy & Dr. Sekhar Datta     |
| 2.  | Environment Impact Assessment in Integrated Water Resources Management: Applications of Fuzzy Logic  | 2009<br>(Ph.D.Engg)  | Mr. Srijit Biswas   | Dr. Pankaj Kumar Roy & Dr. Sekhar Datta     |
| 3.  | Assessment and Prediction of Water Availability of Some Basins in Eastern India with Emphasis on Soil Moisture Accounting  | 2009<br>(Ph.D.Engg.) | Ms. Sujana Dhar     | Prof. (Dr.) Asis Mazumdar                   |
| 4.  | Participatory Management of Ecosystem Services: A Study of Wetlands in West Bengal   | 2008<br>(Ph.D.Sc.)   | Ms. Malabika Biswas | Prof. (Dr.) Asis Mazumdar & Dr. Debasri Roy |
| 5.  | Geographical Information System (GIS) Based Runoff Modelling and Development of User Interface for Effective Management of Agricultural Watersheds in Laterite zone of Dwarakeswar River Basin | 2008<br>(Ph.D.Engg.) | Mrs. Purnima Mishra | Prof. (Dr.) Asis Mazumdar & Dr. Debasri Roy |

**Ph. D. Thesis Ongoing (Registered)**

| Sl. No. | Title  | Year of Registration | Candidate                | Name of Supervisor/s   |
|---------|--|----------------------|--------------------------|--|
| 1.      | A Critical Study on the Environmental Impact on Neer-Mahal Palace in Rudrasagar Lake, Tripura for Its Vulnerability Assessment   | 2012<br>(Ph.D.Engg.) | Mr. Joyanta Pal          | Prof. (Dr.) Asis Mazumdar, Dr. Pankaj Kumar Roy & Dr. Manish Pal   |
| 2.      | A Critical Study on Efficient Solid Waste Management of Agartala City with an Integrated Approach  | 2011<br>(Ph.D.Engg.) | Mr. Tarun Kanti Debnath  | Dr. Pankaj Kumar Roy, Dr. Manish Pal & Dr. Sekhar Datta            |
| 3.      | A Critical Study on the Potential of Hydro Power Development on the Gumti River Systems under Changed Climate Scenario   | 2011<br>(Ph.D.Engg.) | Mrs. Kaberi Majumdar     | Prof. (Dr.) Asis Mazumdar, Dr. Pankaj Kumar Roy & Dr. Sekhar Datta |
| 4.      | A Study on Environmental Assessment Including Sediment Accumulation Pattern in the Vicinity of Nayachara Island the River Hooghly under Pre and Post Farakka Barrage Condition | 2011<br>(Ph.D.Engg.) | Mr. Adya Prasad Banerjee | Prof. (Dr.) Siddhartha Datta & Prof. (Dr.) Asis Mazumdar           |

|     |   |                                     |                                |  |
|-----|---|-------------------------------------|--------------------------------|--|
| 5.  | To Study the Extent and Magnitude of Risks of Arsenic Ingestion in Human Body through Food Chain and Development of Mitigation Strategy through Sustainable Interventions | 2009<br>(Ph.D.Engg.)                | Mrs. Mandira Ghosh             | Prof. (Dr.) Arunabha Mazumdar, Dr. Jyotirmoy Mazumder & Dr. Pankaj Kumar Roy |
| 6.  | A Critical Study on Carbon Sequestration Potential or some Plant Species in Social Forestry   | 2009<br>(Ph.D.Sc.)                  | Mr. Soumyajit Biswas           | Prof. (Dr.) Asis Mazumdar & Dr. Pankaj Kumar Roy                             |
| 7.  | Study on Effects of Scour and its Probable Use as a Dredging Mechanism  | 2008<br>(Ph.D.Engg.)                | Mrs. Khwairakpam Padmini Chanu | Prof. (Dr.) Asis Mazumdar & Dr. Rajib Das                                    |
| 8.  | Alternative Marine Propulsion System – A Critical Study and Analysis  | 2008<br>(Ph.D.Engg.)                | Mr. Saptarshi Basu             | Prof. (Dr.) Asis Mazumdar  |
| 9.  | Mechanism of Pollutant Transfer through Symbiotic Relationship between the Biotic and A-Biotic Factors of East Kolkata Wetlands with the help of Ecosystem Modelling      | 2008<br>(Ph.D.Engg.)                | Mrs. Anindita Bhattacharya     | Prof. (Dr.) Asis Mazumdar, Prof. Arunabha Majumder & Dr. Pankaj Kumar Roy    |
| 10. | Water Resources Management in Andaman and Nicobar Islands with reference to 26 <sup>th</sup> December, 2004 Tsunami and Earth Quake                                       | 2007<br>(Ph.D.Engg.)                | Mr. Amlanjyoti Kar             | Prof. (Dr.) Asis Mazumdar  |
| 11. | A Study on Carbon Sequestration through Plantation for Mitigating the Adverse Impacts from Development Activities   | 2007<br>(submitted)<br>(Ph.D.Engg.) | Mr. Bipal Kumar Jana           | Prof. (Dr.) Asis Mazumdar & Dr. Pankaj Kumar Roy                             |

32. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Yes

33. Does the department obtain feedback from faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes

- The school obtains feedback from students on staff in curriculum as well as teaching, learning through evaluation forms.
- The school took this feedback in times of need we have to take necessary steps in a positive way.
- students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes
- The school obtained feedback from faculty those who are attended to A.C.S. of SWRE for curriculum development and also the faculty who are working in other autonomous and non autonomous colleges/universities for their valuable suggestions for the improvement of teaching learning process.
- alumni and employers on the programmes offered and how does the department utilize the feedback? Yes
- The school also took feedback from alumnae and employers from outside on the programs which are conducted in the campus or school.
- The school responds in a positive way and made necessary adjustments for the development of the students.

34. List the distinguished alumni of the department (maximum 10)

- [1] Prof. (Dr.) Shekhar Dutta, Principal, Tripura Institute of Technology.
- [2] Dr. Arun Kanti Biswas, Former Head & Deputy Director, National Environmental Engineering Research Institute, Kolkata.
- [3] Dr. Biswajit Mukhopadhyay, Supertending Engineer, Kolkata Metropolitan Water And Sanitation Authority.
- [4] Dr. Sanchayan Mukherjee, Assistant Professor, Department of Mechanical Engineering, Kalyani Government Engineering College.
- [5] Dr. Nihar Ranjan Samal, Dept. of Civil Engg., National Institute of Technology Durgapur.
- [6] Dr. Sujana Dhar, Engineer - Water Business Group at CH2M HILL, New Delhi

- Area, India.
- [7] Dr. Purnima Mishra, Technical Officer (Agricultural Engineering), College of Horticulture, Dr. YSR Horticultural University, Andhra Pradesh.
  - [8] Dr. Manish Pal, Associate Professor, Department of Civil Engineering, National Institute of Technology, Agartala.
  - [9] Dr. Rabindranath Barman, Assistant Professor, Department of Production Engineering, National Institute of Technology, Agartala.
  - [10] Dr. Mrinmoy Majumder, Assistant Professor, School of hydro-Informatics Engineering, National Institute of Technology, Agartala.
35. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.
- Special lectures on “Arsenic & Flouride contamination in Groundwater” by Dr. Arun Kanti Biswas, Former Head & Scientist, National Environmental Engineering Research Institute, Kolkata.
  - Special lectures on “Agronomy” by Dr. Ashis Chakraborty, Associate Professor, Bidhan Chandra Krishi Viswavidyalya.
  - A series of lectures on “Multipurpose reservoir & dam operation, safety and other parameters including siltation aspects” by Shri Swapan Kumar Das, Former Chairman, Central Water Commission, Ministry of Water Resources, Govt. of India.
  - A series of lectures on “Flood Management” by Shri Chandan Ray, Former Chief Engineer, Irrigation & Waterways Directorate, Govt. of West Bengal.
  - Special lectures on “Advanced Hydrology” by Dr. Asok Kumar Ghosh, Former Technical Director (Water Dept.), M N. Dastur & Company (P) Ltd, Kolkata.
  - Special lectures on “Agronomy” by Prof. R. K. Sarkar, Former Director, Institute of Agricultural Science.
  - Special lectures on “Hydraulic Structure” by Kalyan Kumar Bandyopadhyay, Former Chief Hydraulic Engineer, Calcutta Port Trust.
  - Special lectures on “Groundwater Dynamics” by Shri Amlanjyoti Kar, Scientist ‘D’, Ministry of Water Resources, Central Ground Water Board, Govt. of India.
36. List the teaching methods adopted by the faculty for different programmes.
- Power Point Presentation.
  - Special lectures
  - Industrial visit
  - Involvement in ongoing research/consultancy project
37. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Through School meeting
38. Give details of “beyond syllabus scholarly activities” of the school.
- To inculcate presentation skills among students the school conducts seminar presentations. The students are given a theme and they have to present papers on them. At the end of the seminar presentation there is a feedback session, where students receive valuable inputs from their peers and professors.
  - Students present their technical papers and attend various seminars/conferences/workshops etc.
  - Field Visit programme is conducted in every semester for the ME students.
39. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. Yes, the post graduate courses are approved by AICTE.
40. Briefly highlight contributions in generating new knowledge, basic or applied.
- Water resource situation all over the world, especially in developing countries like India, present a serious challenge to water managers. The challenge is how to develop indigenous and innovative technology and devise policies that will be environmentally

sound and yet will contribute effectively to meeting social and environmental goals. This necessitates a thorough understanding or acquaintance of the scientific/technical aspects of water resources at the level of executive engineers, planners, managers and policymakers. School of Water Resources Engineering, Jadavpur University has been catering the needs of manpower training, formal education at post graduate level, application research in the field, consultancy services to industry and service sectors in the various aspects of Water Resources Engineering & Management.

41. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).

*Major Strengths*

- Expertise in water resources & hydraulic engineering and related fields.
- Actively involved in running interdisciplinary engineering courses for Master of Engineering in Water Resources and Hydraulic Engineering at Post Graduate level since 2003.
- 17 students have registered and 18 have obtained their Ph.D. degree from the very inception of the School.
- Completed 32 research projects since 2001; Completed 27 Consultancy projects since 2006.
- Publication of 57 international and 50 national journal papers; Publication of 22 international and 69 national conference/seminar/workshop papers.
- Organised 37 national workshops.

*Major Weaknesses*

- Inadequate permanent teaching faculty strength.
- Inadequate floor space and library facilities.
- Lack of availability of laboratory infrastructure.
- Inadequate capital grant for infrastructural support.
- Inadequate furniture and audio-visual aids.

*Major Opportunities*

- To organize training courses in the field of water resources and hydraulic engineering.
- To organize more workshops/conferences/seminars.
- To publish more papers, books, reports etc..
- To extend more research & consultancy services and undertake more collaborative studies.

*Major Challenges*

- To conduct ME courses with inadequate faculties.
- To upgrade laboratory facilities.
- To upgrade the computational infrastructure.

42. Future plans (in as much detail as possible):

- ⊗ Strengthening Outreach Programme of Field Research through Application Project on Water Resources in Backward Districts as per National Agenda for poverty alleviation.
- ⊗ Enhancing Laboratory facilities to cater the need of this region
- ⊗ Providing more technical services to Industry and service sectors with more high quality equipments and expertise
- ⊗ Further strengthening Interdisciplinary, interfaculty cooperation
- ⊗ Introduction of Sand-witched Programmes for conferring M.E. and Ph.D. degrees in association with interested Research Institutes / Universities
- ⊗ Further strengthening Institutional cooperation

## School of Women's Studies

1. Name of the School: WOMEN'S STUDIES
2. Year of establishment: 1988
3. Faculty to which attached: FISLM
4. Names of programmes offered: MPhil, PhD and Extra-Departmental Courses
5. Interdisciplinary programmes being conducted and other departments involved:
  - All our courses are interdisciplinary and taught by faculty from various departments
  - In collaboration with Rabindranath Studies Center, the School of Women's Studies designed, coordinated and taught jointly a course titled 'A New Femininity: Rabindranath Then and Now'. Student strength: 48.
  - We also collaborated with J.D. Birla College, Kolkata and designed a course on women's studies and our research officer continues to teach there.
  - We organize Refresher courses in collaboration with other departments. The last refresher course held in 2012 was conducted in collaboration with Department of International Relations
6. Courses in collaboration with other universities, industries, foreign institutions, etc.: N.A
7. Examination System: Annual/Semester/Trimester/Choice Based Credit System: Semester
8. Participation of the department in courses offered by other departments:
  - Department of English
  - Department of History
  - Department of International Relations
  - Department of Bangla
9. Number of teaching posts sanctioned, filled and actual (Professor/Associate Professor/Asst. Professor/others):

|                     | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 2          | 1      | 1 (presently on lien)        |
| Associate Professor | 3          | 2      | 2                            |
| Asst. Professor     | 5          | 5      | 5                            |
| Other               | 1          | 1      | 1                            |

### 10. Faculty profile:

| Name                 | Qualification | Designation                       | Specialization   | Years of Experience | PhD/MPhil students, last 4 years    |
|----------------------|---------------|-----------------------------------|--|---------------------|-------------------------------------|
| Samita Sen           | PhD           | Director and Professor            | Social History, Labour and Gender  | 19                  | 2 Mphil students and 7 Phd Students |
| Paromita Chakraborty | PhD           | Joint Director                    | 16 <sup>th</sup> to 17 <sup>th</sup> Century English Literature and Drama      | 16                  | 4 MPhil students /8 Phd students    |
| Aishika Chakraborty  | PhD           | Associate Professor               | Gender History, Dance Studies,   | 16                  | 1 MPhil student                     |
| Sudarshana Sen       | PhD           | Associate Professor (contractual) | Research Methodology, Gender and Women's Studies, Ethnic, Minority Communities | 17                  | 3 MPhil students                    |
| Nandita Dhawan       | Mphil         | Assistant Professor               | Gender, Class, Marriage and Hindutva   | 9                   |                                     |
| Nilanjana Sengupta   | Mphil         | Assistant Professor (contractual) | Gender and Development   | 6.5                 |                                     |
| Panchali Ray         | MA            | Assistant Professor (contractual) | Gender, Class, Development, Political Economy                                  | 3                   |                                     |

| Name               | Qualification       | Designation                                  | Specialization   | Years of Experience | PhD/MPhil students, last 4 years |
|--------------------|---------------------|--|--|---------------------|----------------------------------|
| Nandini Mukherjee  | MPhil               | Assistant Professor (contractual)            | Developmental Economic s   | 10                  |                                  |
| Rimple Mehta       | M.A. in Social Work | Assistant Professor (contractual)            | Research Methodology, Gender and Migration, Feminist Criminology |                     |                                  |
| Hardikbrata Biswas | M Phil              | Coordinator, Teaching and Learning Materials | Visual Cultures, Print and Sexuality                             | 5                   |                                  |

11. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:

*Visiting Fellows*

1. Dr. Enakshi Dua
2. Professor Jaba Guha
3. Professor Kusum Datta
4. Madhushree Datta
5. Professor Mukul Mukherjee
6. Anchita Ghatak
7. Professor G. Arunima
8. Dr. Swapan Seth
9. Professor Nirmala Banerjee
10. Professor Sutapa Bhattacharya
11. Dr R Uma Maheswari

*Adjunct faculty*

1. Shefali Moitra, JU, Retired
2. Mukul Mukherjee, Retired, Delhi University
3. Anirban Das, Assistant Professor, CSSSC
4. Ritu Sen Chowdhury, Assistant Professor, West Bengal State University
5. Aparna Bandyopadhyay, Associate Professor, Lady Barbourne College
6. Manabi Majumder, Professor, CSSSC
7. Madhusree Dutta, Director, Majlis, Mumbai
8. Kusum Dutta, Retired
9. Ratnabali Chatterjee, Retired, CU
10. Kavita Panjabi, JU
11. Ipshita Chanda, JU
12. Kunal Chattopadhyay, JU
13. Madhuja Mukherjee, JU
14. Abhijit Roy, JU
15. Subha Chakraborty Dasgupta, JU (Retired)
16. Supriya Chaudhuri, JU (Retired)
17. Jaba Guha, JU (Retired)
18. Soma Marik, (till April 2013) CU undergraduate College
19. G. Arunima, Visiting Fellow at SWS from JNU
20. Aishika Chakraborty (till April 2013), Brahmananda Keshab Chandra College, Kolkata.
21. Sudarshana Sen (till April 2013), Aliah University
22. Sanjukta Bhattacharya, JU
23. Sudeshna Banerjee, JU
24. Ruchira Goswami, NUJS, Kolkata
25. Srimati Basu, Kentucky University, Visiting Fellow at SWS

26. Rochelle Tucker, Simon Fraser University, USA, affiliate scholar at SWS
27. Elizabeth Goldberg, Babson College, USA
28. Swati Ghosh, Professor, Economics, Rabindra Bharati University
29. Sushil Halder, JU
30. Epshita Halder, JU
31. Nirmala Banerjee, CSSSC, Retired

*Emeritus professors*

1. Professor Jashodhara Bagchi

*Visiting professors*

1. Dr. Soma Marik
12. Percentage of classes taken by temporary faculty – programme-wise information: 45-55 % of classes were taken by adjunct faculty which includes guest faculty, visiting fellows and teachers from other departments of JU
13. Programme-wise Student Teacher Ratio: 1 teacher: 3 students
14. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual:

| Year | Sanctioned | Filled | Actual                             |
|------|------------|--------|------------------------------------|
| 2008 | 7          | 7      | 4 (before) + 7 =11                 |
| 2009 |            |        | 10 (continuing from before)        |
| 2010 | 3          | 3      | 8 (continuing from before) + 3 =11 |
| 2011 | 1          | 1      | 9 (continuing from before) +1 =10  |
| 2012 | 1          | 1      | 10 (continuing from before)+1 =11  |
| 2013 | 5          | 5      | 7 (continuing from before)+ 5= 12  |

15. Research thrust areas as recognized by major funding agencies:  
The School has undertaken a variety of projects with different themes. However, they are all linked together in various ways and are often followed up from the findings of the previous research projects. The following areas have been covered under the various research projects:

1. Migration
2. Labour, Trade unions
3. Domestic Violence
4. Trafficking
5. Knowledge production and dissemination
6. Participation of women in bodies of local self governance
7. Microfinance
8. Marriage
9. Photographs of women/ women in photographs
10. Women, art and gender
11. HIV and AIDS
12. Paid Domestic Work

16. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

a) Number of faculty with national funding agencies: 4

b) Number of faculty with international funding agencies: 3

c) Total grants received: Rs. 3,39,65,266

Projects funded from external sources

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*National Funding Agency*

Name of the Project: CHILDLINE

Supervisor: Professor Samita Sen; Coordinator: Sm. Indrani Banerjee

Funded by: Ministry of Women and Child Development, Govt. of India

Project Grant:

Rs. 4,93,900



Name of the Project: Panchayat Mahila Shakti Abhiyan  
Supervisor: Professor Samita Sen  
Research Coordinator: Smt. Sudakshina Mitra  
Assistant Coordinator: Anindita Ghosh  
Funded by: Central Ministry of Panchayati Raj  
Project Period: For State Sammelan (Phase-I) - from June 2007 to September 2007  
For Two Level District Sammelans (Phase-II) - from July 2008 to September 2008  
and again from December 2008 to February 2009  
Project Grant: Rs. 8,25,067

Name of the Project: Building Resources in Women's Studies  
Project Supervisor: Professor Samita Sen  
Project Coordinator: Jayeeta Bagchi  
Funded by: Sir Ratan Tata Trust, Mumbai  
Project Period: October 2007-June 2011  
Project Grant: Rs. 91,64,000

Name of the Project: Photos of Women/ Women in Photos: The Photographic Worlds of Bengali Urban Middle Class Women  
Supervisor: Professor Samita Sen  
Principal Investigator: Hardik Brata Biswas  
Funded by: India Foundation of Arts  
Project Period: April 2008 to August 2010  
Project Grant: Rs. 7,75,000

*International Funding Agency*

Name of the Project: Re-negotiating Gender Relations in Marriage: Family, Class and Community in the Era of Globalisation  
Supervisor: Professor Samita Sen  
Research Coordinator: Nandita Dhawan  
Project Period: 2007-2009  
Funded by: Rosa Luxemburg Stiftung Foundation, Germany Rs. 35,02,700

Name of the Project: Awareness Generation and sensitization on the Issue of Domestic Violence in Kolkata  
Supervisor: Professor Samita Sen  
Research Coordinator: Nandita Dhawan  
Funded by: Rosa Luxemburg Stiftung Foundation, Germany  
Project Period: 2010-2011  
Project Grant: Rs. 28,32,000

Name of the Project: Increased Understanding of Single Women Migration and Their Working Conditions as Domestic Workers in West Bengal  
Supervisor: Professor Samita Sen  
Research Coordinator: Dr. Ranjita Biswas  
Funded by: Rosa Luxemburg Stiftung Foundation, Germany  
Project Period: 2012  
Project Grant: Rs. 11,16,000

Name of the Project: Increased Understanding of Politics and Ideology of Trade Unions in Gujarat and West Bengal

Supervisor: Professor Samita Sen

Research Coordinator: Nandita Dhawan

Funded by: Rosa Luxemburg Stiftung Foundation, Germany

Project Period: 2012

Project Grant: Rs. 12,22,000

Name of the Project: Increased understanding of gendering of workers and culture and politics of organisation of workers with special reference to auto-rickshaw drivers and beauty workers in West Bengal

Funded by: Rosa Luxemburg Stiftung Foundation, Germany

Supervisor: Nandita Dhawan

Project Period: 2013-2015

Project Grant: Rs. 73,69,450

Name of the Project: Domesticity and Domestic Labour: Fostering women's Agency and Collectivities in Contemporary West Bengal

Funded by: Rosa Luxemburg Stiftung Foundation, Germany

Supervisor: Nandita Dhawan

Project Period: 2013-2015

Project Grant: Rs.60,64,300

Name of the Project: Through the Gender Lens: An Analysis of Nation and Identity in School Textbooks

Research Coordinator: Dr. Paromita Chakravarti

Funded by: Nirantar, New Delhi

Project Period: 2005-2009

Project Grant: Rs. 3,28,000

Name of the Project: Legislation Review of the HIV/ AIDS Bill 2005

Supervisor: Dr. Paromita Chakravarti

Supported by: National Commission for Women

Project Period: 2007-2008

Project Grant: Rs. 1,90,000

Sephis Foundation Visiting Fellowship Rs. 82,849

Funded by the School of Women's Studies from the UGC Research Grants

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Name of the Project: Survival and Struggle: Domestic Workers in Kolkata

Supervisor: Professor Samita Sen

Research Coordinator: Nilanjana Sengupta

Project Period: 2006-2009

Name of the Project: Woman and Her Body

Supervisor: Professor Samita Sen

Research Coordinator: Ms Sarbani Goswami

Project Period: April 2007-March 2009

Name of the Project: Pathika Samvad: Women Students in Jadavpur University  
Supervisor: Professor Samita Sen  
Research Coordinator: Ms Jayeeta Bagchi

Name of the Project: Place of Microfinance in Rural Credit: Assessing Philosophy, Systems and Practices from the Standpoint of Poverty and Gender  
Supervisor: Professor Samita Sen  
Research Coordinator: Nilanjana Sengupta  
Project Period: 2010-11 (6 months Project)

Name of the Project: Women, Art and Gender: Representations of Women in Art from the Medieval to the Colonial Digitizing Professor Ratnabali Chatterjee's Collection  
Supervisor: Professor Samita Sen  
Principal Expert (Honorary): Professor Ratnabali Chatterjee

Name of the Project: Dynamics of Marriage, Separation & Remarriage: Urban Milieu in the New Millennium  
Supervisor: Professor Samita Sen  
Research Coordinator: Nandita Dhawan  
Collaboration: Professor Diganta Mukherjee, Head, Usha Martin Research Centre, Salt Lake  
17. Inter-institutional collaborative projects and associated grants received  
h) National collaboration b) International collaboration

a) National Collaboration

- i. Name of the Project: Women's Empowerment and Education: Panchayats and Women's Self Help Groups in India (in collaboration with McGill University Canada)  
Principal Investigator: Dr. Paromita Chakravarti  
Funded by: Shastri Indo-Canadian Institute  
Project Period: 2009-2011  
Project Grant: Rs. 34,00,000
- ii. Name of the Project: Organising for Change: Jeevika's Journey towards Women's Empowerment through Swayamsampurna  
Supervisor: Professor Samita Sen  
Consultants: Dr. Mukul Mukherjee  
Professor Nirmala Banerjee  
Coordinator: Nilanjana Sengupta  
Project Period: 2009-2010
- iii. Name of the Project: Creating a Data-base for PWDVA  
Funded by: West Bengal State Commission for Women  
Project Grant: Rs. 64,000

b) International Collaboration

- i. Name of the Project: Protection against Vulnerability: What Works? The Indian Experience  
Supervisor: Prof. Samita Sen  
Research Coordinator: Dr. Ranjita Biswas

In collaboration with University of Highlands and Islands, Perth College,  
Scotland

Funded by: Oak Foundation

Project Period: July 2011-February 2012

Project Grant: Rs. 12,36,426

- ii. Name of the Project: Gender Implications of the National Knowledge  
Commission Report 2006-2007  
Research Coordinator: Paromita Chakravarti  
In collaboration with McGill University, Montreal, Canada  
Funded by: Shastri Indo-Canadian Institute  
Project Period: May 2008 - Feb. 2009  
Project Grant: Rs. 8,32,000

18. Publications: See Annexure for details

- \* Number of papers published in peer reviewed journals (national / international): 29
- \* Monographs: 2
- \* Chapters in Books: 65
- \* Edited Books: 11
- \* Books: 1
- \* Books with ISBN with details of publishers: 1
- \* Occasional Papers: 2

19. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):

*Dr. Paromita Chakravarti*

- i. Visiting Fellow, Department of English, Hyderabad University, February 2011
- ii. Academic Visitorship at the Department of Development Studies, University of Oxford (April 24<sup>th</sup> to 9<sup>th</sup> July, 2010)

*Nilanjana Sengupta*

- i. UGC Visiting Fellow to School of Women's Studies, JU in February 2012 (when she was Assistant Professor at TISS, Tuljapur)

20. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)

a) National Committees

- i. The School of Women's Studies, a life institutional member of the Indian Association of Women's Studies, has been elected to its Executive Council in 2008. In October 2008, the School was elected to be the Secretariat for this term of the Council and its Director, Professor Samita Sen, General Secretary, Indian Association of Women's Studies (2008-11). Currently, Professor Samita Sen is member of the Executive Committee.
- ii. Professor Samita Sen, Director, School of Women's Studies was a member of the Expert Committee of the MPhil and PhD programme of Women's Studies conducted by Indira Gandhi National Open University along with the Centre for Women in Developing Societies.
- iii. Professor Samita Sen, Director, and Srimati Sarbani Goswami, Research Officer, of the School of Women's Studies are members of the Board of

- Studies of the Women's Studies and Women's Empowerment programme of the Netaji Subhas Open University
- iv. Professor Sen was nominated to the National Curriculum Development Committee of the UGC.
  - v. Professor Sen is a member of the UGC National Consultative Committee on Capacity Building for Women Managers in Higher Education.
  - vi. Member, National Consultative Committee, UGC Capacity Building for Women in Higher Education Programme and also member of its National Sub-committee, NID Cell (from 2010).
- b) International Committees
- i. Professor Samita Sen, Member, Academic Committee, CLARA (Changing Labour Relations in Asia) funded by IISH (Amsterdam) and IIAS (Leiden).
  - ii. Professor Samita Sen, Collaborator with Prof. Amarjit Kaur (Department of Economic History, University of New England, Armidale, Australia) Women Industrial Workers in Asia. 1998 onwards. A visiting faculty of UNE.
  - iii. Professor Samita Sen was an invited member of the SEPHIS Steering Committee
- c) Editorial Boards
- i. Nilanjana Sengupta, Guest Editor, Special Issue on 'Gender and Development' for the Global South, SEPHIS e magazine, Volume 8, No 1. January 2012. Weblink: [www.sephisemagazine.org](http://www.sephisemagazine.org)
  - ii. Professor Samita Sen is the 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).
  - iii. Professor Samita Sen is the Editor, Global South, the Sephis E-Magazine from September 2004.
- d) Any Other
- i. Professor Samita Sen is a member of the Advisory Committee of the Women's Studies Centre at Bethune College.
  - ii. Professor Samita Sen is a member of the Advisory Committee for Women's Studies Centre, Manipur University.
  - iii. Professor Samita Sen is a member of the Internal Advisory Monitoring and Evaluation Committee, Gauhati University.
  - iv. Professor Samita Sen, Member of the Advisory Committee for Women's Studies in Nagaland University.
  - v. Professor Samita Sen was a member of a Selection Committee, Berhampur University (4 July, 2010).
  - vi. Professor Samita Sen was a member of the Academic Council, RGNIYD Deemed University.
  - vii. Professor Samita Sen is a member of the consultative committee of AASHI (Kolkata).
  - viii. Professor Samita Sen, Member, South 24 Parganas District Planning Commission, Eleventh Plan.
  - ix. Professor Samita Sen, Member, Advisory Committee for Book Selection & Ordering, National Library of India, Kolkata.

- x. Professor Samita Sen, External Member, Committee on Gender Sensitization against Sexual Harassment, Centre for Studies in Social Sciences Calcutta, 2010-2012.
  - xi. Jayeeta Bagchi, Lecturer at the School (2008-2011), was the convener of the EC Nominated Committee for the proposed Day Care Centre in Jadavpur University, Day Care Centre Committee, Jadavpur University. She was also a member of the Committee for Gender Awareness and Action Against Sexual Harrassment, Jadavpur University.
  - xii. Dr. Paromita Chakravarti is the Convenor, CGAASH
21. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted:  
Refresher Courses (including participants not only from West Bengal but the whole of the eastern region, north-east, southern and central regions):
- “Gendering Disciplines”: Teaching and Research into Humanities and Social Sciences”, January 2008
  - “Gender and Power: Practices, Representations and Strategies”, November 2009
  - “Gender and Power: Family, Community and State”, February 2011
  - “State and Social Inequalities: Gender, Class and Caste”, November 2012
22. Student projects
- percentage of students who have done in-house projects including inter-departmental projects: 36%
  - percentage of students doing projects in collaboration with other universities / industry / institute : N.A
23. Awards / recognitions received at the national and international level by
- Faculty
 

Dr. Aishika Chakraborty received a Travel Grant from Indian Council of Historical Research to attend an International Workshop on “Engendering and degendering South Asian Studies”, Humboldt University, Berlin, Germany, 17-22 May, 2011.
  - Doctoral / post doctoral fellows
 

Approximately ten students from the School cleared the NET examination held in the period and four among them were awarded the UGC Junior Research Fellowship.

2 (+2) SRTT Ph.D Fellows for three years. Nilanjana Sengupta, Biswanath Sarkar, Hardik Brata Biswas and Anindita Ghosh were the recipients of this fellowship.

Tumpa Mukherjee received the SRTT Fieldwork Fellowship from 1st September 2008 – 30th November 2008 at the School of Women’s Studies, Jadavpur University.

Sreerupa Sengupta received the SYLFF *doctoral fellowship* (2008-2011) and was awarded the SYLFF Research Abroad (SRA) grant in 2009 to visit Howard University, Washington DC as well as American University of Cairo, Cairo between September and November 2009.

Rimple Mehta received the SYLFF *Doctoral Fellowship* (2010-2013) and was awarded the SYLFF Research Abroad (SRA) grant in 2012 to visit Central European University, Budapest from September 2012-Februaury 2013.

Hardik Brata Biswas, received the *Research Fellowship for beginning PhD students in the Global South* from SEPHIS, The Netherlands (The

South-South Exchange Programme for Research on the History of Development), between September 2008–February 2010 (18 months). He worked as the Principal Investigator for the project titled: *From the Obscene to the Pornographic: The Case of Bangla Print Pornography*. He was also the Principal Investigator on behalf of School of Women's Studies for the project titled *Photos of Women / Women in Photos: The photographic Worlds of the Bengali Middle Class Women*, funded by India Foundation for the Arts, Bangalore, India (April 2008 to August 2010).

Saayan Chattopadhyay received the *University Grants Commission (UGC) – Minor Research Project in Humanities & Social Sciences* [Principal Investigator] -2013 (Grant Amount: Rs. 149000/-)

- Students (Give details)

3 SRTT M.Phil Scholarships- 1 Scholar for 10 months every year held successively by 4 scholars. In 2008 it was awarded to Dhaumojit and Debolina Ghosh, 2009 – Somdutta Mukherjee, 2010 – Suneha Kandpal. Among our M.Phil students in this period four received the Rajiv Gandhi Youth Fellowship for pursuing her M.Phil and Ph.D.

Nilanjan Pande, another M.Phil student of batch 2008-2010 visited Japan for one year under the student exchange programme with Momoyama Gakuin University under the St. Andrews Programme.

Approximately ten students from the School cleared the NET examination held in the period and four among them were awarded the UGC Junior Research Fellowship.

24. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

Conferences : 4

Workshops : 39

Seminars : 6

Others (Consultative meets/ panel discussions/ interactive forums): 7

For details see Annexure

25. Code of ethics for research followed by the department:

The School, while interviewing research participants for any of its research projects tries to ensure an informed consent from them.

Informed consent must mean that participants understand the following:

- ✓ The identity of the researchers, funders and sponsors
- ✓ The purpose and objectives of the study
- ✓ The process, methodology and techniques that will be used
- ✓ How data will be recorded
- ✓ That participation is totally voluntary
- ✓ That participants are free to stop at any time and are not under any obligation to answer all questions or take part in all activities
- ✓ That by not participating, individuals will not jeopardise their current relationship or future relationship with any bodies or organisations
- ✓ The anticipated consequences of the study
- ✓ The anticipated use of the data
- ✓ Who will 'own' the data
- ✓ The possible benefits and possible harm or discomfort of the study
- ✓ Where and how the information will be stored and secured
- ✓ The procedures around 'limited confidentiality' and anonymity

- ✓ Participants should be very clear on what exactly they are consenting to whether it is interviewing, photography, audio recording etc.
- ✓ That participants will be debriefed following the initiative
- ✓ Logistical information: expected duration of study, where and when the data collection will take place.
- ✓ What incentives if any are to be given

The School, while carrying out research projects involving children uses a specific code of ethics. The following codes of practise have been used for work in CHILDLINE projects as well as the research project titled “Protection against Vulnerability: What Works? The Indian Experience” funded by Oak Foundation.

- Explain the aims of the research, what participation entails, and any risks that may be incurred in a clear and understandable way to children and guardians
- Respect the individual child’s right to consent which must be voluntary and free from coercion. Ensure the child knows they are free to withdraw at any time
- Seek the parent’s/ guardian’s consent to speak to the child
- Do no harm
- Ensure that child protection issues are thoroughly considered prior to data collection and that child protection strategies are clear for all involved
- Respect the competencies and abilities of the child in the research process
- Minimise the imbalance of power between researchers and respondents
- Create a comfortable, friendly environment
- Respect and listen to children and give them the space to share their experiences
- Protect the identity and privacy of each child and adult participating in the research
- Respect the culture, religion, tradition and gender of each respondent
- Don’t make promises you can’t keep
- Be prepared and ensure you have the details of organisations that the child could go to for support
- Inform children of what will happen to the results
- Ensure the findings are fed back to children in an appropriate way
- Reflect on your behaviour and attitudes towards children, the issues and how you could influence the research
- Work with organisations who have the capacity to build on the knowledge collected and who are interested in the results
- Ensure research is impartial and conflicts of interest are declared

## 26. Student profile programme-wise:

### Extra Departmental Course (ED)

| Name of the Programme<br>(refer to question no. 4)<br>ED | Applications<br>received | Admitted<br>Male    Female | Pass percentage (w.r.t. last<br>graduating batch)<br>Male    Female |
|--|--------------------------|----------------------------|---|
| 2010 3 <sup>rd</sup> Semester<br>(July to December)      | Voluntary<br>Admission   | 4+6=10                     | 4+6=10(data not available)  |
| 2011 4 <sup>th</sup> Semester<br>(January to June)       | Voluntary<br>Admission   | 4+6=10                     | 4(100%)+6(100%)=10  |
| 2011 3 <sup>rd</sup> Semester<br>(July to December)      | Voluntary<br>Admission   | 2+11=13                    | 2(100%)+10(90%)=12  |
| 2012 4 <sup>th</sup> Semester<br>(January to June)       | Voluntary<br>Admission   | 1+19=20                    | 1(100%)+9(100%)=20  |
| 2012 3 <sup>rd</sup> Semester<br>(July to December)      | Voluntary<br>Admission   | 0+7=7                      | 0(100%)+(7+1)<br>(100%)=8   |
| 2013 4 <sup>th</sup> Semester<br>(January to June)       | Voluntary<br>Admission   | 12+16=28                   | Pending   |



| Name of the Programme<br>(refer to question no. 4)<br>ED | Applications<br>received | Admitted<br>Male Female | Pass percentage (w.r.t. last<br>graduating batch)<br>Male Female |
|--|--------------------------|-------------------------|--|
| 2010 3 <sup>rd</sup> Semester<br>(July to December)      | Voluntary<br>Admission   | 4+6=10                  | 4+6=10(data not available)                                       |
| 2013 3 <sup>rd</sup> Semester<br>(July to December)      | Voluntary<br>Admission   | 1+8=9                   | Pending  |

### MPhil

| Name of the Programme | Applications<br>received | Admitted<br>Male Female | Pass percentage (w.r.t. last<br>graduating batch)<br>Male Female |
|-----------------------|--------------------------|-------------------------|--|
| M. Phil (2007-2009)   | Data not<br>available    | 2+13=15                 | Cannot be calculated<br>Passed 10 (1+9)                          |
| M. Phil (2008-2010)   | Data not<br>available    | 4+11=15                 | Passed 7 (1+6)<br>100%(M)66.66% (F)                              |
| M. Phil (2009-2011)   | Data not<br>available    | 2+8=10                  | Passed 10 (2+8=10)<br>200%(M) 75% (F)                            |
| M. Phil (2010-2012)   | Data not<br>available    | 1+13=14                 | Passed 11(0+11)<br>0(M) 137.5% (F)                               |
| M. Phil (2011-2013)   | Data not<br>available    | 2+12=14                 | Pending  |
| M. Phil (2012-2014)   | 101                      | 2+11=13                 | Pending  |
| M. Phil (2013-2015)   | 155                      | 5+10=15                 | Pending  |

### PhD

| Name of the Programme | Applications<br>received | Admitted<br>Male Female | Pass percentage (w.r.t. last<br>graduating batch)<br>Male Female |
|-----------------------|--------------------------|-------------------------|--|
| Ph.D (2008)           | Data not<br>available    | 2+2=4                   | None   |
| Ph.D (2009)           | Data not<br>available    | 1+1=2                   | Awarded<br>0+1(100%)=1(100%)                                     |
| Ph.D (2010)           | Data not<br>available    | 0+4=4                   | Awarded<br>0+1(100%) =1(100%)                                    |
| Ph.D (2011)           | Data not<br>available    | 1+5=6                   | Awarded<br>0+1(100%) =1(100%)                                    |
| Ph.D (2012)           | Data not<br>available    | 2+8=10                  | Awarded<br>1(100%) +1(100%) =<br>2(100%)                         |
| PhD (2013)            | Not opened               | Not opened              | N/A  |

### 27. Diversity of students

| Name of the<br>Programme<br>(refer to question no.<br>4) | % of students from the<br>same university | % of students from<br>other universities<br>within the State | % of students<br>from universities<br>outside the State | % of students<br>from other<br>countries |
|--|---|--|---|--|
| M. Phil (2013-2015)                                      | 100%                                      | N/A  | N/A   | N/A                                      |
| M. Phil (2012-2014)                                      | 100%                                      | N/A  | N/A   | N/A                                      |
| M. Phil (2011-2013)                                      | 100%                                      | N/A  | N/A   | N/A                                      |
| M. Phil (2010-2012)                                      | 100%                                      | N/A  | N/A   | N/A                                      |

| Name of the Programme<br>(refer to question no. 4) | % of students from the same university  | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|---|--|---|------------------------------------|
| M. Phil (2009-2011)                                | 14/16=87.5%   | N/A  | 2/16=12.5%  | N/A                                |
| M. Phil (2008-2010)                                | 100%  | N/A  | N/A   | N/A                                |
| M. Phil (2007-2009)                                | 100%  | N/A  | N/A   | N/A                                |
| Ph.D   | 6 (2008-2012)<br>Nandita Dhawan, Hardik Brata Biswas, Tanusree Kundu, Moupia Mukherjee, Sreerupa Sengupta, Sayan Chattapadhyay. | 20   | none  | none                               |

28. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

NET: 12 (Nandita Dhawan, Tanusree Kundu, Animesh Baidya, Moumita Ghosh Bhattacharyya, Amrita Basu Roy Chowdhury, Sunrita Chakraborty, Drishwadati Bargi, Amolina Ray, Shalini Sengupta, Debolina Guha Thakurta, Rimple Mehta, Sukanya Basu)

29. Student progression

| Student progression   | Percentage against enrolled   |
|---|---|
| UG to PG  | Not Applicable  |
| PG to M.Phil.   | Not Applicable  |
| PG to Ph.D.   | Not Applicable  |
| M. Phil to PhD  | 6 (2008-2012) 6/53=11%  |
| Ph.D. to Post-Doctoral  | Not Applicable  |
| Employed  | Not Applicable  |
| <ul style="list-style-type: none"> <li>Campus selection</li> <li>Other than campus recruitment</li> </ul> | <ul style="list-style-type: none"> <li>Campus selection: 10+(Extensive data not available)</li> <li>Other than campus recruitment: 25+(Extensive data not available)</li> </ul> |
| Entrepreneurs   | Not Applicable  |

30. Diversity of Staff

| Percentage of faculty who are graduates  |  |
|--|--|
| Of the same University                   | Nandini Mukherjee<br>Hardik Brata Biswas (18.20%)  |
| From other universities within the state | Samita Sen, Paromita Chakravarti,<br>Aishika Chakraborty, Nandita Dawan<br>Sudarshana Sen,<br>Panchali Ray, Rimple Mehta, Ranjita Biswas<br>(72.71%) |
| From universities from other states      | Neelanjana Sengupta (9.09%)  |
| From universities outside the country    | NA   |

31. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period (2008 – 2013):

| Number of faculty | Awarded M.Phil. | Awarded Ph.D.                  |
|-------------------|-----------------|--------------------------------|
| 2                 | NA              | Ranjita Biswas, Sudarshana Sen |

32. Present details of departmental infrastructural facilities with regard to

- a) Library: The School has a library and a reading room with audio-visual facilities extensively used by the students, scholars, faculty members from Kolkata and other places in the country. Our main aim is to collect materials relevant to the Indian situation and share these with other researchers, activists and NGOs in the field. We have already acquired a substantial collection of books and non-book materials, journals, pamphlets, reports, conference proceedings, occasional papers, posters, newspaper clippings etc. Along with the traditional card catalogue, a computerized on-line public access catalogue (OPAC) of the library is operational. This facility is available both on intranet [Libsys OPAC] and internet [<http://libtermsrv.jdvu.ac.in>]. In the year 2012-2013, the school has purchased about 447 books and received about 76 books and other documents as gifts from different organizations and individuals. We subscribe few journals which are not readily available in the vicinity, namely:

Periodicals subscribed by the School

- Economic and Political Weekly
- Feminist Economics
- Feminist Review
- Gender, Technology and Development
- Indian Journal of Gender Studies
- Social Scientist
- The Little Magazine

Periodicals subscribed by the JU Central Library and kept at the School

- Biblio: A Review of Books
- Contribution to Indian Sociology
- Journal of Women's History
- Signs: Journal of Women in Culture and Society

We have also received some journals through networking:

- Asian Journal of Women's Studies
- Canadian Woman Studies
- IAWS Newsletter
- Indian Journal of Population Education
- Journal of History (Dept. of History, J.U.)
- Journal of the Moving Image (Dept. of Film Studies, J.U.)
- Journal of Sociology (Dept. of Sociology, J.U.)
- Journal of Women's Studies (Dept. of History, J.U.)
- Literature Matter (British Council )
- Lok Samvad
- Mahila Vishwa
- Narikantha (West Bengal State Commission for Women)
- Panchayati Raj Update
- Population and Development Review
- Rashtra Mahila (National Commission for Women)
- SEPHIS Newsletter
- Studies in Family Planning
- Eksathe (Bangla)
- Narikantha (Bangla)

Facilities available for the reading room user:

- Lending service for faculty, research scholars, university staff and students
- Reference service
- Bibliographic service

- Audio visual service
- Internet service
- Reprography

#### On-line Public Access Catalogue

Along with the traditional card catalogue, a computerized On-line Public Access Catalogue (OPAC) of the library is operational. This facility is available both on intranet [Libsys OPAC] and internet [<http://libtermsrv.jdvu.ac.in>].

#### b) Internet facilities for staff and students:

- No of computers: 33 desktops (out of which 4 are non-functioning)
- Internet connectivity: 27

c) Total number of class rooms: 3

d) Class rooms with ICT facility: 1

e) Students' laboratories: N.A

f) Research laboratories: N.A

#### 33. List of doctoral, post-doctoral students and Research Associates

##### *List of Doctoral Fellows from (a) the host Institution/University*

1. Panchali Ray (JRF)

Registration: August 2007

Title: Working Lives: Women at Home and at Work.

Supervisor: Samita Sen

2. Nandita Dhawan

Registration: August 2007

Title: Appropriating Feminism? Mainstreaming of the Hindutva Rhetoric

Supervisor: Samita Sen

3. Anindita Ghosh

Registration: August 2007

Title: *Pashchimanga Panchayate Mahila Janopratinidhi – Abasthan O Abhigyata*

Supervisor: Samita Sen

4. Moupia Mukherjee

Registration: September 2007

Title: *Nari Nisarga Nitir Atashkache Lila Majumdar ebong Asenath Bole Odaga'r Nirbachito Rachana: Sishusahitye Lingo Baishammya o Paribesh*

Supervisor: Ipshita Chanda

5. Jayeeta Bagchi

Registration: January 2008

Title: Sukhalata Rao: Her Works and Her Times

Supervisor: Samita Sen, Ratnabali Chatterjee

6. Kaniska Sarkar

Registration: September 2008

Title: Domestic Violence Against Women: A Critical Study of Selected Geographical Areas

Supervisor: Iman Kalyan Lahiri

7. Hardik Brata Biswas

Registration: October 2008

Title: Spatialising the Visual: Relocating Women's Photographs in Bengal, 1880 - 1970

Supervisor: Swapan Chakravorty, Anirban Das

8. Moumita Bhattacharya  
Registration: October 2008  
Title: Women and Education: The Case of the Rajbanshis of Jalpaiguri District (1977 onwards)  
Supervisor: Debi Chatterjee
9. Madhurima Mukherjee  
Registration: November 2008  
Title: Constructing Self: Bengali Women's Travel Accounts 1885 – 1947  
Supervisor: Sayantan Dasgupta
10. Biswanath Sarkar  
Registration: April 2009  
Title: Self-help Groups and Women's Empowerment: The Experience of Rural West Bengal  
Supervisor: Prof. Mukul Mukherjee, Tanaya Banerjee
11. Sreerupa Sengupta (SYLFF PhD Fellow)  
Registration: April 2009  
Title: HIV and AIDS Media Campaigns in India: Exploring Issues of Gender and Rights  
Supervisor: Dr. Paromita Chakravarti
12. Rajlakshmi Ghosh  
Registration: May 2010  
Title: Textuality and Sexual Difference: Reading as Writing  
Supervisor: Dr. Anirban Das
13. Rimple Mehta (SYLFF PhD Fellow)  
Registration: May 2010  
Title: Agency and the Experiences of 'Illegal' Bangladeshi Women Migrants in Correctional Homes in Kolkata: A Feminist Exploration  
Supervisor: Prof. Sanjukta Bhattacharya
14. Sheli Dutta  
Registration: May 2010  
Title: Changes and Continuity in autonomous Women's Movement in West Bengal  
Supervisor: Iman Kalyan Lahiri
15. Debarati Banerjee  
Registration: May 2010  
Title: Women's Education for Empowerment? The Perception of Sri Ramkrishna, Swami Vivekananda, Sarada Debi, Gouri Ma and the Ramkrishna Sarada Mission Order.  
Supervisor: Debi Chatterjee, Soma Marik
16. Tanusree Kundu  
Registration: July 2011  
Title: Re-conceptualising Hijra Identity: A Study of Communities in Contemporary South Bengal  
Supervisor: Samita Sen, Ritu Sen Chowdhury
17. Animesh Baidya  
Registration: July 2011  
Title: *Bratokatha theke Panchali: Punarnirmaner Rajneeti*  
Supervisor: Ipshita Chanda
18. Piku Dasgupta  
Registration: July 2011  
Title: Surrogate Motherhood in India: Dilemmas of Law and Ethics

Supervisor: Paromita Chakravarti, Swati Ghosh  
 19. Srijita Chakraborty  
 Registration: July 2011  
 Title: Women Labourers in the Tea Plantations of Assam, 1859-1931  
 Supervisor: Samita Sen  
 20. Priti Ghatani  
 Registration: July 2011  
 Title: The Role of Women in Gorkhaland Movement post 1986  
 Supervisor: Paromita Chakravarti, Ranju Dhamala  
 21. Saayan Chattopadhyay  
 Registration: July 2011  
 Title: Recasting Men: Bhadrakol Masculinities and the Gendered Voice in Bangla Newspapers since 1947  
 Supervisor: Anirban Das  
 22. Amrita Basu Roy Chowdhury  
 Registration: May 2012  
 Title: Construction of Gender in Bengali Print Advertisement, 1991-2010  
 Supervisor: Sayantan Das Gupta  
 23. Humaira Chowdhury  
 Registration: May 2012  
 Title: Another Side of the Hidden Half: (Un)Veiling the Politics of Agency and Resistance among Contemporary Muslim Women in Urban India  
 Supervisor: Paromita Chakravarti  
 24. Manoj Kumar Haldar  
 Registration: May 2012  
 Title: *Nadia Jelar Tapashili Jatibhukta Mahilader Janaparisare Rajnaitik Sachetanata O Anshagrahan*  
 Supervisor: Iman Kalyan  
 25. Somdutta Mukherjee  
 Registration: May 2012  
 Title: Politics of Resistance in Spaces of 'Displacement' and 'Rehabilitation': Dynamics of Gender and Class in Kolkata  
 Supervisor: Priya Sangameswaran  
 26. Shenjuti Dutta  
 Registration: May 2012  
 Title: 'Space' and the Process of 'Feminization' in Cinema: Reading the Bengali Melodrama from 1930s to 1960s  
 Supervisor: Anirban Das  
 27. Anwesh Sarkar  
 Registration: May 2012  
 Title: *Linga Prekshit Theke Unishsho Panchash Parabarti Adhunik Bangla Kabitay Mahila Kabider Abadan* (লিঙ্গ প্রেক্ষিত থেকে উনিশশো পঞ্চাশ পরবর্তী আধুনিক বাংলা কবিতায় মহিলা কবিদের অবদান)  
 Supervisor: Subharanjan Dasgupta  
 28. Ria Mukherjee  
 Registration: May 2012  
 Title: Gender and 'Conduct': A Study of Selected Life Style Magazines (1945-2010)  
 Supervisor: Samantak Das

29. Rajat Biswas

Registration: May 2012

Title: *Adhunik Bangla Sahitye 'Samantaral' Jauna Satta* (আধুনিক বাংলা সাহিত্যে 'সমান্তরাল' যৌন সত্তা)

Supervisor: Shampa Choudhury

30. Roopleena Banerjee

Registration: May 2012

Title: The 'Matriarchi' Debate and the Khasi Practice

Supervisor: Iman Kalyan Lahiri

*List of Research Associates from b) other Institution/University*

1. Dr. Nunglekpm Prem Dev

34. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

A need assessment through discussions among the faculty of the School, across the departments at the Jadavpur University and regional experts was undertaken by the School of Women's Studies at the time of the introduction of the semester system under the Faculty of Arts. A new syllabus for the M.Phil programme in Women's Studies was also introduced in 2007. For the Extra Departmental courses (2 nos.) discussions were done by the School's teaching pool and the Faculty of Arts, through which the courses were passed before actual semester teaching began.

35. Does the department obtain feedback from

faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

alumni and employers on the programmes offered and how does the department utilize the feedback?

Feedback forms were issued to participants in various programmes under the SRTT Building Resources in Women's Studies. And the feedback given by the participants were discussed in a few feedback workshops arranged by the School. The fellows were asked to submit a report on their work and to fill up a feedback form to assess their gains in immediate terms as well as long-term benefits. The following table lists the number of fellowships, internships and scholarships in the project.

• Distribution of Fellowships and Internships

| No. | Nature of fellow/intern/scholar ships | Total | Number of feedback reports |
|-----|---------------------------------------|-------|----------------------------|
| a.  | National Visiting Fellowships         | 9     | 4                          |
| b.  | Field Work Fellowships                | 9     | 7                          |
| c.  | Library Fellowships                   | 9     | 6                          |
| d.  | M.Phil Internships                    | 9     | 6                          |
| e.  | M.Phil Scholarships                   | 3     | 2                          |

• Improved clarity of problems and issues in Women's Studies

This is perhaps most true of M.Phil interns, who were attached to research projects of the School. From their association with the research projects, as well as the exposure gained from seminars/conferences and the use of the library, they were able to glean much better the

approach to gender in current scholarship and research methodology. They were able to work on primary material under the guidance of the project staff and the faculty.

- Providing a research environment: The critical role of methodology in research

The fellowships served their primary purpose in that it was intended to provide a research environment, with the seminar presentations playing a crucial role in this. Many of the fellows have mentioned that this was a major benefit they derived. It helped to break their isolation and open up their work to discussion with peers and senior scholars. The seminars showed how critical questions of methodology are and the need for much greater awareness of such issues in current research on gender.

- Accessing research facilities: Research and Mobility

One major aim of the fellowships programme, especially the library fellowship, was to provide researchers located in areas where they have difficulty accessing primary and secondary material on gender and secondary literature on gender an opportunity to access the facilities of the School and other libraries of Kolkata. Some were able to make more use of this facility than others. However, two fellows from the North-East, two from Orissa, one from Bangalore and one from Ahmedabad were able to use the fellowships in precisely this fashion. In their feedback forms they wrote very positively of their experience. Sarbani Das Gupta, a Library Fellow, Senior Lecturer, Department of Economics, St. Mary's College, Shillong said, "The series of fellowships including the Library Visiting Fellowship funded the said Trust has provided the much needed impetus to research on women in general and to the researchers hailing from the relatively backward regions of the country, in particular. The Trust has routed the fellowship through the Jadavpur University, Kolkata, an institution par excellence and more so through its School of Women's Studies, a pioneer in the field of Women's Studies in all its facets of teaching, research and activism, in the country." Clearly, there is a great need for such facilities for researchers who work/reside outside the metropolitan context. In some cases, moreover, researchers require facilities for travel and research even if they are located at metropolitan centres. Greater mobility (and meeting the expenses involved) would pay rich dividends in terms of cross-cultural cross-linguistic research within the country. The paucity of resources often force researchers to stifle their curiosity about other (even neighbouring) cultures and languages in favour of narrowing their focus on their own language/regions.

- Experiences and Concerns

The Library and Fieldwork Fellows have all mentioned that their work has gained enormously in both conceptual and empirical terms. Given the current uneven nature of the state of research in Women's Studies, the programme was aimed at helping researchers access the resources that enrich their work. According to Soma Marik, a fieldwork fellow and a reader in History at a college in Kolkata, "I always find seminars a learning process. Communicating one's research by published papers is a rather impersonal process. In a seminar the discussion gives a feedback and enriches one's own perspectives, as it happened in the present case." Moreover, researchers outside the University context do not have easy access to material (conceptual, methodological or empirical) pertaining to Women's Studies, since its presence in BA courses is still very new.

36. List the distinguished alumni/ae of the department (maximum 10)

- Aparna Bandyopadhyay: Associate Professor, Lecturer in History, Lady Brabourne College, Kolkata.
- Hardik Brata Biswas: Teaching Learning Coordinator, School of Women's Studies, Jadavpur University, Kolkata.
- Kanishka Sarkar: Assistant Registrar, Jadavpur University, (Ex-IPS Officer) Kolkata.



- Lokeshwari Dasgupta: Dancer and teaches Kathak at Suchanda Sangitalaya, Kolkata.
- Nandita Dhawan: Assistant Professor, School of Women's Studies, Jadavpur University, Kolkata.
- Ranjita Biswas: Psychiatrist and Project Coordinator, School of Women's Studies, Jadavpur University, Kolkata.
- Samata Biswas: Lecturer in Women Studies, Shivnath Shastry College, Kolkata.
- Shenjuti Dutta: Assistant Professor, Department of Film Studies, St.Xavier's College, Kolkata.
- Sudarshana Sen: Associate Professor, School of Women Studies, Jadavpur University, Kolkata.
- Ushashie Chakraborty: Assistant Professor in Economics, Shyama Prasad College and a distinguished Bengali Actress, Kolkata.

37. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

The M Phil in Women's Studies and the Extra Departmental Courses in the period of the report harnessed the expertise of the external faculties in teaching and evaluating the students in the two years regular course. Apart from the M Phil programme, PhD fellows under the SRTT programme were evaluating the quality of the work in progress. Three 10 days residential workshops (2008, 2009, 2010) under the SRTT programme also harnessed resource persons nationally like Professor Sanjay Srivastava from the Institute of Economic Growth, Professor J. Devika from the Centre for Development Studies, Trivandrum (2009 workshop) or from other research institutes of the region like Professor Sibaji Bandyopadhyay, Professor in Cultural Studies, Centre for Studies in Social Sciences, Calcutta, among many others. The Women's Studies Research Forum active in the period of the report also invited experts and scholars from the region like Professor Anjan Chakraborty, Department of Economics, Calcutta University for talks and interactions with the members of the group who were mostly the students and research scholars of the School. The SRTT Ph.D fellows workshop (in Jadavpur University and in collaboration with the Centre for Women's Studies, Visva-bharati University) had experts like Professor Jasodhara Bagchi and Professor Mukul Mukherjee commenting on the work of the research students. Various awareness / training / dissemination workshops organized under the broad rubrics of the projects funded by the Rosa Luxemburg Stiftung, Berlin, Jeevika (regional NGO) or the India Foundation for the Arts, Bangalore, roped in external experts and scholars as resource persons, observers and commentators. The National Students' Conference organized by the School in 2012 had participations of external faculties from Jadavpur University and the CSSSC as chairs and discussants.

38. List the teaching methods adopted by the faculty for different programmes.

- a. Classroom Lectures
- b. Seminar Style Classes (spanning for 2 hours for the M Phil programme)
- c. Visits to NGOs
- d. Audio-video materials
- e. Panel discussion by students
- f. Students' conference
- g. Film shows.

39. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Continuous internal evaluation for the M Phil and ED programmes, term papers, SRTT project evaluation etc.

40. Highlight the participation of students and faculty in extension activities

- The SWS is involved in networking with and participating in the activities of state government departments such as Department of Social Welfare, District Planning Committees, Department of Social Welfare and Department of Panchayati Raj and Rural Development, West Bengal State Commission for Women, etc.
- The school is involved in raising awareness regarding domestic violence and sexual harassment at workplace, especially in higher education institutions, and has actively participated in consultation processes for creating centres/cells in various colleges such as Bethune, Lady Brabourne, Basanti Devi and CSSS to address these issues
- The School has been working in partnership with the Ministry of Women and Child Development, GOI since 2003. The School has been acting as the nodal organization for the CHILDLINE 24 Parganas (South) unit. The team members of CHILDLINE South 24 Parganas are doing outreach and open-house programme for disseminating the CHILDLINE message to the general people. The CHILDLINE team members provide interventions of shelter, medical, repatriation, rescue, death related services, sponsorships and emotional support and guidance. The team also organizes different awareness programmes on child rights, early marriage, child trafficking etc.
- In 2008-09 the following three workshops were organized by the CHILDLINE project 1.Mental Health Problems of Children: Role of Care Givers, 2. Laws Related to Children: Helping child to protect his right 3. Role of Police in protecting child rights. They were funded by the National Institute of Social Defense, Govt of India
- In 2009-2010 the following two workshops were organized by the CHILDLINE project: 1.Juvenile Justice Act: Role of Police, 2.Emergence and implication of Child Rights: Role of Stake holders. They were funded by National Institute of Social Defense , Govt of India.
- In 2010-2011 the following two workshops were organized by the CHILDLINE project: 1.Child Abuse, Corporal Punishment: Role of School Teachers on protecting child rights 2.Child Trafficking: The protection Mechanism. They were funded by National Institute of Social Defense , Govt of India
- In 2011-2012 the following two workshops were organized by the CHILDLINE project: 1.Ensuring child rights: Role of the stake holders, 2. Legislation and Assistance to trafficked victims. They were funded by National Institute of Social Defense , Govt of India
- In 2012-2013 two workshops were organized by the CHILDLINE project: 1.Missing Children: Role of Police, 2.Role of adults in helping children to increase their coping abilities. These were funded by National Institute of Social Defense, Govt. of India
- A one-day workshop for police personnel on NICP (National Initiative of Child Protection) was organized by CHILDLINE, School of Women's Studies, Jadavpur University on 20 December 2012 at Police Conference Hall, Alipore.

- A one-day workshop for school teachers on NICP (National Initiative of Child Protection) was organized by CHILDLINE, School of Women's Studies, Jadavpur University on 3 January 2013 at New Administrative Building, Alipore.
- As part of the project, Increased Understanding of the Politics and Ideology of Trade Unions in West Bengal and Gujarat, Participants from different labour unions met and interacted on various important issues related to labour and gender during December 2012.
- The research team from the project titled, "Protection against Vulnerability: The Indian Experience" visited families and community members in different villages of West Bengal to learn more about their experiences and opinions on the kind of rehabilitation measures that are operative for child survivors of sex trafficking. The objective was to build an evidence base so as to facilitate the process of future programs and policy changes required to address the issue of reintegration of child victims of commercial sexual trafficking.
- The School of Women's Studies, Jadavpur University as a part of the project entitled "Awareness Generation and Sensitization on the Issue of Domestic Violence in Kolkata", organized a dissemination workshop in collaboration with Howrah Zilla Parishad and District Social Welfare Department, Howrah among government officials [DPO (ICDS)] and Elected Women Representatives (EWRs) from all the three-tiers in Howrah District on 4 August 2010 at the office premises of Howrah Zilla Parishad.
- A second dissemination workshop on domestic violence was organized as a part of the same project among the students of Shibpur Dinabandhu Institution (College), Howrah on 13 August 2010 at the college campus.
- Dr. Ranjita Biswas, Lecturer at the School was invited to deliver a talk on Gender and Violence on the occasion of Fortnight against Violence on Women by Swayam, a women's rights organization in Kolkata on 4 December 2010.
- As part of the project, Awareness Generation and Sensitization on the Issue of Domestic Violence in Kolkata funded by Rosa Luxemburg Stiftung, Germany, the School of Women's Studies, organized a workshop with Protection Officers from 19 districts of West Bengal on 15 June 2011 at Jadavpur University. The issues that came up for discussion were their role in the implementation of PWDVA, 2005 and any recommendations for better implementation of the Act.
- As part of the project, Awareness Generation and Sensitization on the Issue of Domestic Violence in Kolkata funded by Rosa Luxemburg Stiftung, Germany, the School of Women's Studies, organized a workshop with Counsellors from 48 FCCs in all districts of West Bengal on 16 June, 2011 at Jadavpur University. The issues that came up for discussion were their role in the implementation of PWDVA, 2005 and any recommendations for better implementation of the Act.
- The School of Woman's Studies, Jadavpur University collaborated with the Centre for Canadian Studies to organize a 2-day International Conference on The Reality of the Indigenous Woman: Canada and India on 5-6 February 2009 at the Buddhadeva Bose Sabhaghar, Department of Comparative Literature, Jadavpur University.
- As part of the project, Awareness Generation and Sensitization on the Issue of Domestic Violence in Kolkata funded by Rosa Luxemburg Stiftung, Germany, the School of Women's Studies organized a workshop, in association with the NGO T-Shed, on awareness generation and experience sharing regarding domestic violence. The workshop was held on 4 July 2011 at the Community Hall in the

Topsia settlement of the Rag Pickers. Participants were women and a few children from the settlement.

- As part of the project, Awareness Generation and Sensitization on the Issue of Domestic Violence in Kolkata funded by Rosa Luxemburg Stiftung, Germany, the School of Women's Studies, in association with Jeevika, organized a workshop with Self Help Group Members working in South 24 Parganas and North 24 Parganas on 29 July 2011 at Joka. The discussion centered around generating awareness regarding the PWDVA, 2005 and their role in dealing with domestic violence in the community.
- As part of the project, Awareness Generation and Sensitization on the Issue of Domestic Violence in Kolkata funded by Rosa Luxemburg Stiftung, Germany, the School of Women's Studies organized a workshop with the MUC Women's College, Burdwan in association with Punarnaba, a Human Rights Network. The workshop was held on 19 August, 2011 and had college students from Ist, IInd and IIIrd Year of all disciplines participating. The aim of the workshop was to generate awareness and encourage interaction and experience sharing with the students on domestic violence.
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awareness and encourage interaction and experience sharing with the students on domestic violence.

- The School of Women's Studies, Jadavpur University is conducting a project (funded by Rosa Luxemburg Stiftung, Germany) entitled Awareness Generation and Sensitization on the Issue of Domestic Violence in Kolkata. A major objective of the project is to formulate mechanisms to improve the awareness and utilization of the Protection of Women from Domestic Violence Act (PWDVA), 2005. In this context the School of Women's Studies in collaboration with the West Bengal Commission for Women organized a Local Networking and Dissemination Workshop on 3 December 2011 at Vivekanda Hall, Subarna Jayanti Bhavan, Jadavpur University. The objective was to disseminate the main findings of the project to the participants of the workshop and to provide a platform for an effective dialogue between various stakeholders of the PWDVA. Another objective was to finalize a set of recommendations to be sent to relevant organizations at the national and state level for effective implementation of PWDVA.
- As part of the project, Increased Understanding of the Politics and Ideology of Trade Unions in West Bengal and Gujarat, an interactive forum with trade union leaders was held on 27 December 2012. Participants from different labour unions met and interacted on various important issues related to labour and gender.
- As a follow-up to the dissemination workshop on 10 December 2012, the School of Women's Studies held an interactive forum with trade union leaders on 21 January 2013 at Vivekananda Hall, Subarna Jayanti Bhawan, Jadavpur University.
- In the aftermath of the Delhi rape case in December 2012, the students of the School took an initiative to organise an open dialogue on rape along with other students of the University on 11 January 2013. This was in response to growing instances of violence against women in the country and the state. A number of people working to reduce gender-based violence in Kolkata were invited to initiate this public dialogue which saw the participation not only of university staff and students but also the public at large. The striking feature of this event was the leadership taken by the students of the School. They distributed a leaflet to invite people to the dialogue.
- In September 2008 and February 2009 two district-level sammelans were organized under the project, Panchayat Mahila Shakti Abhiyan (for Elected Women Representatives). The first was at Dankuni where Elected Women Representatives (EWR) from Hooghly and Howrah attended, and the second in North Bengal, covering Jalpaiguri, Coochbehar and Siliguri Mahakuma Parishad. The objective was to provide a platform for Elected Women Representatives (EWR) to interact, discuss their needs and problems.
- The School of Women's Studies organized a dissemination workshop on Women's Empowerment and Education: Panchayat and Women's SHG's in India on 25 August 2011 at Jadavpur University. The workshop was attended by members and workers of grassroots organizations from Coochbehar and Howrah in West Bengal and Aizawl and Lunglei districts in Mizoram. Diverse experiences of economic and political empowerment and challenges faced thereof were shared among the participants along with the screening of a documentary footage on the women's empowerment.
- Professor Samita Sen, Director, School of Women's Studies attended a State Level Workshop on "Women Beedi Workers in West Bengal", on 28 November 2008, organized by the Association for Social and Health Advancement, Salt Lake,

Kolkata. This association with the School is a long-term one that is going to flourish more in the near future.

- Dr. Ranjita Biswas, Lecturer at the School participated as resource person in a training program conducted by West Bengal State AIDS Prevention & Control Society on 30.12.2008.
- The School of Women's Studies was invited by the Insurance Employees' Association to address their members, on 14 March 2009, on the occasion of International Women's Day. Nilanjana Sengupta and Ranjita Biswas represented the School. The discussion focused on two pertinent aspects of women's lives – work and violence.
- Professor Samita Sen, Director, School of Women's Studies was invited to deliver a talk on 27 March 2009 on the occasion of the International Women's Day by the Association for Social Health in India, Kolkata.
- Professor Samita Sen, Director, School of Women's Studies was invited to deliver a talk on 9 March 2009, on the occasion of the International Women's Day Celebration, by the United Bank of India, South 24 Parganas Central Region, Behala.
- Nilanjana Sengupta, Lecturer at the School undertook a training workshop on Gender and Work at Sunderaban for self employed women and school teachers organized by an NGO Ebong Alap in April 2011.
- The School of Women's Studies in collaboration with the International Centre for Research on Women (ICRW) and Association for Advocacy and Legal Initiatives (AALI) organised a two-day National Workshop on Reviewing Trafficking in Women and Children in India on 24-25 March 2010. The objectives of this workshop were: 1) to uncover the dilemmas and challenges in building a comprehensive understanding on trafficking, safe migration as well as the relevance and application of the human rights framework in addressing trafficking in women and children, 2) to contribute to an inter-sectoral dialogue on approaches and methodologies in responding to various aspects and manifestations of trafficking, 3) to identify the issues in addressing trafficking in women and children including common grounds, distinctions and challenges, 4) to facilitate a critical analysis of the responses being made and the gaps that need to be addressed, as well as to recommend priority areas for attention.
- Dr. Ranjita Biswas, Project Coordinator and faculty organized and anchored an interactive session with doctors on health issues of lesbian, bisexual and transpersons on 11 September 2012 at Medical College Calcutta
- A day long workshop in collaboration with Apne Aap Worldwide on Sex Trafficking on 11 December 2012.
- An interactive session in collaboration with Sama - Resource Group for Women and Health, Delhi to share the research findings of the study on Commercial Surrogacy in India on 21 December 2012.
- Dr. Ranjita Biswas, Project Coordinator and faculty was invited to interact with students of Lady Brabourne College as part of a Round Table on 'Combating Violence' on 25.02.2013.
- Dr. Ranjita Biswas, Project Coordinator and faculty was invited as panelist on Compulsory Marriage and Heteronormativity as site of gender violence in the film festival, Our lives... to live, as part of the One Billion Rising Campaign, organized by Swayam in collaboration with International Association of Women in Radio and Television on 4 January 2013.

- Dr. Ranjita Biswas, Project Coordinator and faculty visited Dhaka as a resource person in the sixth Two Country Gender Workshop 2013 organised by SANGAT and Swayam on 21.6.13 to take a training session on "Sexuality and Sexual Rights".
- It also organises meetings for legal literacy in colleges, urban settlements as well as in the University.
- The School of Women's Studies in collaboration with the Department of Adult Continuing Education and Extension organised the Women and Legal Literacy course from 9 December 2009 to 23 December 2009 at Subarna Jayanti Bhavan, Jadavpur University. Approximately twenty participants from various NGOs, grass root organizations, student community and other professions came together to receive an awareness of the different laws that impact women's lives, both in positive and adverse ways.
- The School of Women's Studies organized a consultative meet on 27 July 2010 at Jadavpur University to get feedback and suggestions from the experts in the socio-legal domain working on women's rights on the first draft of a Legal Handbook on laws relating to women in India as a part of the project titled "Awareness Generation and Sensitization on the Issue of Domestic Violence in Kolkata", funded by Rosa Luxemburg Stiftung, Germany.
- The School of Women's Studies organized a one day-long workshop with The Media Lab and the School of Cultural Texts and Records on Metadata Harvesting on 19 November 2009 at Jadavpur University. It was funded by India Foundation for the Arts, Bangalore. There was a participation of various humanities archival projects at the University. Projects and archives which dealt with visual image, moving image and textual; archiving came together to share thoughts on standards of metadata harvesting.
- The School organized a conference on Marriage and Intimacies in Kolkata from 22-23 December 2009 at the Jadavpur University supported by IAWS and the Rosa Luxemburg Stiftung, Berlin. The conference was been inspired by the School's critical engagement with a project entitled, "Renegotiating Gender Relations in Marriage: Family, Class, Community in Kolkata in the era of Globalisation" being funded by Rosa Luxemburg Stiftung (RLS), Germany. The conference tried to reassess important political debates and theoretical frameworks of gender relations with overlapping frameworks of marriage, sexualities and living practices through an interdisciplinary feminist perspective.
- The School of Women's Studies organised a workshop with undergraduate college teachers on 9 February 2010 at Jadavpur University. The aim of the workshop was to get a feedback on the previous interactive workshops and refresher courses held with college teachers, and to explore future tie-ups in the form of clustering.
- The School of Women's Studies in collaboration with the International Centre for Research on Women (ICRW) and Association for Advocacy and Legal Initiatives (AALI) organised a two-day National Workshop on Reviewing Trafficking in Women and Children in India on 24-25 March 2010. The workshop was funded by Oak Foundation, Geneva. It was attended by about 75 participants drawn from approximately 25-30 groups working on different aspects of trafficking in India, as well as human rights, labour rights, children's rights and women's rights groups, and observers from Nepal who are in association with groups working on cross-border trafficking among the three countries. The meeting was resourced and supported by international and national experts on trafficking and human rights and the sessions were led by the key discussants to support the recommendations.

- Under the SRTT Building Resources grant the School organised three 10-day residential workshops, between 2008 and 2010. The first one on Themes and Issues in Women's Studies, and the second one on Culture and Development: Feminist Crossings for researchers and college teachers. These workshops and the National Visiting Fellowship has vastly increased the span of our interaction and networking with other Women's Studies Centres and increased the visibility of our programme at the national level.
- The School of Women's Studies, organized the 3rd SRTT-SWS Residential Workshop (18-26 May 2010) titled Women's Studies and Systems of Knowledge: Contexts and Problems at Artland Resort, Pailan, South 24 Parganas, West Bengal. The workshop was inaugurated by Professor Pradip Narayan Ghosh, Honourable Vice-Chancellor of Jadavpur University. The chief guest was Professor Swapan Chakravorty, Director, National Library. The keynote address was delivered by Tejaswini Niranjana, Senior Fellow, Centre for Study of Culture and Society, Bangalore. The session was chaired by Professor Nirmala Banerjee.
- The School of Women's Studies, organized the SRTT JU Fellowship Seminar (2010) on 18 June 2010 at Anita Banerjee Memorial Hall, Jadavpur University. Four library and field fellows presented their work.
- The School of Women's Studies, organized a workshop on 'Rape' to 'Sexual Assault': Legal Debates, Feminist Concerns on 28 July 2010 at Anita Banerjee Memorial Hall. The two-day workshop gave us an opportunity to come in contact with a number of organizations and individuals both locally and nationally. Along with an exchange of ideas and thoughts on trafficking in women and children, we could also build an effective network among the different participants for future collaboration and activities together.
- The School of Women's Studies in collaboration with the Institute of Development Studies Kolkata and Stree Publishers organized a panel discussion on Women's Writing and the Political History of Modern Bengal on the occasion of the publication of Sarmistha Dutta Gupta's "Identities and Histories: Women's Writing and Politics in Bengal" on 8 September 2010 at Vivekananda Hall, Subarnajayanti Bhavan, Jadavpur University. The panelists were Professor Supriya Chaudhuri, Professor Samita Sen, Dr Shubhoranjan Dasgupta and Ms Samarpita Mitra. The session was chaired by Professor Jasodhara Bagchi.
- The School of Women's Studies completed a research project in collaboration with Jeevika Development Society. The project traced the journey of the Self Help Groups promoted by Jeevika towards the formation of a federation named Swayamsampurna. The School of Women's Studies organized a seminar entitled Organizing for Change: Jeevika's Journey towards Women's Empowerment through Swayamsampurna on the occasion of launching the report of the project on 14 September 2010 at Jadavpur University.
- The School of Women's Studies organized 4 SRTT Curriculum Building Workshops on (a) Gendering Disciplines: Possibilities and Challenges on 23 November 2010 at Jadavpur University (b) Women's Studies, Women's Movements: Rethinking Relationships and Politics was organized by the School on 10 January 2011 Jadavpur University (c) Gender and Politics: Interdisciplinary Approaches to Teaching and Research on 23 February 2011 at Jadavpur University (d) Critical Knowledges in Higher Education: Mapping the Ground was organized at the School of Social Sciences, JNU in collaboration with the Centre for Women's Development Studies (New Delhi) from 14-15 March 2011.



- The School of Women's Studies, very successfully organized the XIIIth IAWS National Conference on Women's Studies around the theme Resisting Marginalizations, Challenging Hegemonies: Re-visioning Gender Politics at the Mahatma Gandhi Antarrashtriya Vishwavidyalaya (MGAHV), Wardha in collaboration with its Department of Women's Studies from 21 - 24 January 2011. Professor Samita Sen was the general secretary and the SWS was the secretariat of the Indian Association of Women's Studies. The preparation for the conference at the School of Women's Studies, the IAWS Secretariat, began months before the actual date of the conference under the supervision of Professor Samita Sen, the IAWS General Secretary. The groundwork included designing and printing the conference brochure, preparation of reports to be disseminated during the conference, completion of registration and membership formalities of the conference participants along with a continuous coordination with the members of the host team at Wardha. A team of 24 members from the School was present at Wardha during the conference as paper presenters, coordinators and volunteers. The ten subtheme sessions saw around 270 papers being presented in parallel sessions conducted on three days of the conference. One of the indicators of success of the conference has been the widespread participation in the conference with a total registration of around 750 participants from different parts of the country. This included 400 student participants. We had international participants as well.
- We jointly organized a two-day workshop for PhD students, entitled Gender, Power and Representation from 24-25 March 2011 at the Visva Bharati University campus. About fourteen PhD scholars from different universities of West Bengal and Jharkand (two were from Hyderabad as well) presented their research work and benefitted from the feedback given by experts in their respective fields.
- Under the SRTT funding programme, the School has organized a series of consultation workshops on curricula, teaching and research in Women's Studies. We organized the SRTT-SWS, JU Fellowship Seminar 2011 on 2 May 2011 at Jadavpur University.
- The School of Women's Studies in collaboration with the publisher Charchapad organized a panel discussion on Unish Shataker Mudran Sahitya: Bangamahilar Upasthiti on the occasion of the formal publication of Prahashane Kolikaler Bangamahila: 1860-1909 (edited by Hardik Brata Biswas and published by Charchapad) on 6 May 2011 at Jadavpur University. The panelists were Professor Pradip Kumar Basu, Dr. Ritu Sen Choudhury, Dr. Aishika Chakraborty and Sri Hardik Brata Biswas. The session was chaired by Professor Ratnabali Chatterjee. Sri Raghav Bandyopadhyay, on behalf of Charchapad, briefly shared his experiences in publishing the book.
- The School of Women's Studies, Jadavpur University organized a one-day workshop on 14 November 2011 at Jadavpur University, on behalf of the Oak Foundation to facilitate the interaction of the Oak team members with NGOs working in the fields of "Women Migration and Trafficking", "Child Safety and Protection", "Livelihood and Gender". This was mainly done to map the possible areas of funding researches in the above mentioned fields.
- The first National Students' Seminar organized by School of Women's Studies was held on 13-14 March 2012 at Jadavpur University. The theme of the seminar was Agency and Resistance: Feminist Approaches. Research scholars from all over the country presented their papers. The seminar was a one of its kind because it was a first attempt at a women's studies students' conference. It was conceptualized as

- well as organized by the M.Phil and Ph.D students of the School under the guidance and support of the faculty as well as the Director of the School.
- The school organized a seminar entitled The Politics of the Collective: Gender, Informality and Organisation on 10 December 2012, it was supported by Rosa Luxemburg Stiftung, Germany.
  - As a follow-up to the dissemination workshop on 10 December 2012, the School of Women's Studies held an interactive forum with trade union leaders on 21 January 2013 at Vivekananda Hall, Subarna Jayanti Bhawan, Jadavpur University.
  - The School organized an interactive session in collaboration with Sama - Resource Group for Women and Health, Delhi to share the research findings of the study on Commercial Surrogacy in India on 21 December 2012.
  - The Moving Space: Women in Dance (February 3-5, 2013), was organized jointly by Dance Alliance India and School of Women's Studies, Jadavpur University. Rabindranath Tagore Centre, ICCR, Kolkata, supported the event as a venue collaborator and the performances were supported by the Sangeet Natak Akademi. The Event was inaugurated on February 3, 2013 at the Rabindranath Tagore Centre, ICCR by Prof. Bharati Ray, former Vice President, ICCR, and Prof Jasodhara Bagchi, former Chairperson, West Bengal Commission for Women.
  - The School organized a seminar titled Screening Dance: Politics of the Performing Body on 24 July 2013 at Jadavpur University. In the first session Dr. Prarthana Purkayastha from University of Plymouth, UK presented a paper entitled, 'The Nation and its Bodies: Resistive Choreography in Uday Shankar's Kalpana (1948)' while the second presentation by Pallabi Chakravorty of Swarthmore College, USA explored 'Digitized Intimacy and Dance Reality T.V: An Ethnography of New Femininity and Masculinity'.
  - Nilanjana Sengupta was the resource person for a Workshop organized by Ebong Alaap with school teachers in Sundarban, South 24 Parganas, West Bengal in 2011.
  - Resource Person at a Residential Workshop organized on 11-13 September 2009 in Vizag, Andhra Pradesh by the Jeevika Development Society, working with self employed women and micro credit beneficiaries in South 24 Parganas, West Bengal.
  - Resource Person at a Workshop organized on 8-10 July 2009 in Kolkata on empowerment of women micro credit beneficiaries by Jeevika Development Society.
  - Resource Person at a Workshop organized by Jeevika Development Society on advanced gender training for microfinance beneficiaries on 20-21 December 2010 at Kolkata.
  - Member (in individual capacity as well as representing Women's Studies) of the West Bengal Centenary Committee for the commemoration of the centenary year of International Women's Day, spanning the period from 8 March 2010-8 March 2011.
  - Speaker on the occasion of Fortnight against Violence on women celebrated by Jeevika, a women's right based organisation and microfinance support group on 8 December 2010 in Kolkata.
  - Participated in the Panchayat Mahila Evam Yuva Shakti Abhiyan Workshop with Elected Women Representatives of Panchayat in the Jalpaiguri, Koch Bihar and Siliguri Mahakuma Parishad of West Bengal on 1-2 February, 2009.

- Delivered a lecture on the Occasion of International Women's Day in a programme organized by the Insurance Employees' Association at the LIC Office in Kolkata on 14 March 2009
  - Organised several events including seminars, film shows, poster exhibition and street play presentations for the commemoration of the International Women's Day by the School in March 2009 and 2010.
  - Co hosted a weekly programme called Gender Bytes at the Community Radio JU (90.4mghz), of Jadavpur University, Kolkata between 2009-2010.
  - Professor Samita Sen, is a member of the Advisory Committee of the Women's Studies Centre at Bethune College.
  - Professor Samita Sen is a member of the Advisory Committee for Women's Studies Centre, Manipur University.
  - Professor Samita Sen is a member of the Internal Advisory Monitoring and Evaluation Committee, Gauhati University.
  - Professor Samita Sen, Member of the Advisory Committee for Women's Studies in Nagaland University.
  - Professor Samita Sen was a member of a Selection Committee, Berhampur University (4 July, 2010).
  - Professor Samita Sen was a member of the Academic Council, RGNIYD Deemed University.
  - Professor Samita Sen is a member of the consultative committee of AASHI (Kolkata).
  - Professor Samita Sen, Member, South 24 Parganas District Planning Commission, Eleventh Plan.
  - Professor Samita Sen, Member, Advisory Committee for Book Selection & Ordering, National Library of India, Kolkata.
  - Professor Samita Sen, External Member, Committee on Gender Sensitization against Sexual Harassment, Centre for Studies in Social Sciences Calcutta, 2010-2012.
  - Jayeeta Bagchi, Lecturer at the School (2008-2011), was the convener of the EC Nominated Committee for the proposed Day Care Centre in Jadavpur University, Day Care Centre Committee, Jadavpur University. She was also a member of the Committee for Gender Awareness and Action Against Sexual Harrassment, Jadavpur University.
  - Dr. Paromita Chakravarti is the Convenor, CGAASH
41. Give details of "beyond syllabus scholarly activities" of the department
- The school organizes Refresher Courses (including participants not only from West Bengal but the whole of the eastern region, north-east, southern and central regions).
  - The first National Students' Seminar organized by School of Women's Studies was held on 13-14 March at Jadavpur University. The theme of the seminar was "Agency and Resistance: Feminist Approaches". Research scholars from all over the country presented their papers. The seminar was a one of its kind because it was a first attempt at a women's studies students' conference. It was conceptualized as well as organized by the Mphil and PhD students of the School under the guidance and support of the faculty as well as the Director of the School.
  - A Central Regional Workshop was held in 1-2 March 2010 at Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya (MGAHV), Wardha entitled, Taking Stock and seeking directions: evaluating one hundred years of women's struggles. The workshop aimed at MP, Jharkhand, Chattisgarh and Vidarbha focused on issues of

women on the margins – workers, dalit and tribal women. There were discussions on challenges facing the women's movement with special reference to globalization and its impact on development. Samita Sen, Director, School of Women's Studies was present and she thought that the event communicated an extraordinary level of keenness, youngsters were very much there.

- The School has successfully contributed to developing resources in the regional language. The Bengali Women Writers series, which we continue to expand every year, is one major contribution of the School.
- The School is running a translation project in collaboration with the Department of Comparative Literature, Jadavpur University.
- We have a consistent programme of publication. Various books, monographs and Working Papers have been brought out in the last academic year by the School and in collaboration with renowned publishers.
- The School of Woman's Studies, Jadavpur University collaborated with the Centre for Canadian Studies to organize a 2-day International Conference on The Reality of the Indigenous Woman: Canada and India on 5-6 February 2009 at the Buddhadeva Bose Sabhaghar, Department of Comparative Literature, Jadavpur University.
- The southern regional workshop of IAWS entitled, Re-Affirming Plurality, Seeking Justice and Democracy, was conducted in collaboration with Roshini Nilaya School of Social Work at Mangalore on October 12 - 13, 2009. The workshop was aimed at strongly reaffirming our plurality and fight for justice and democracy. Nandita Dhawan, coordinator of IAWS Secretariat, participated in the coordinating team of IAWS and was a workshop rapporteur. She prepared a report on the workshop.
- A two day seminar cum workshop entitled, Transforming Science: Feminist Perspectives, a peer review Workshop, was conducted in Mumbai on 16-17 February 2010 in collaboration with the Research Centre for Women's Studies, SNDT University, Mumbai. More than 30 completed papers were circulated on philosophy of science, conceptual issues of science, individual women scientists, pedagogy of science, medical and technological issues, natural sciences, feminist science fiction. Nandita Dhawan of the School presented a paper.
- The IAWS organized a workshop on Feminist Research Methodology at the Madras Institute of Development Studies, Chennai from 23-26 February 2010. The Workshop was aimed at teachers and researchers of women's studies. Rather than prescribing what feminist methods must do or specifying how feminist researchers should proceed, the modest aim of the Workshop was to demonstrate, among other things, how feminist approaches to social research have led to disagreements in mainstream ideas and interpretations of the relationship between the social world and people's lived realities; how this critique of mainstream ideas at one level, has, at another level, also contributed to diversity within feminism; what imparts distinctiveness, if any, to feminist scholarship even as feminists are continually struggling to produce and justify authoritative knowledge of gendered social life.
- The School of Women's Studies, Jadavpur University organized the launch of the book *Intimate Others: Marriage and Sexuality in India* edited by Samita Sen, Ranjita Biswas and Nandita Dhawan, published by School of Women's Studies and Stree on 9 February 2011 at Vivekananda Hall, Subarna Jayanti Bhawan, Jadavpur University. The programme was followed by a panel discussion.
- The Global South Sephis e-Magazine (Sephis Foundation, Netherlands) is housed in the School. Since its inception in 1994, SEPHIS has been committed to South-South exchange through seminars, research grants, training workshops, publication programmes and an e-magazine. Global South Sephis e-Magazine, first published in

2004, has presented itself as a platform for South-South academic exchange by bringing together not only senior scholars but also fresh graduates based in the countries of the 'south' to engage in conversations about their many visions of development and history. A peer-reviewed quarterly electronic publication, it is free and open for all to subscribe (<http://sephisemagazine.org/subscribe.html>). Over the years this magazine has facilitated in the development of south-south networks encouraging an exchange of ideas across disciplines.

- The School has been regularly publishing a newsletter since 1992 till today which is available at the School of Women's Studies, JU, for free distribution.
- The School of Women's Studies, a life institutional member of the Indian Association of Women's Studies, has been elected to its Executive Council in 2008. In October 2008, the School was elected to be the Secretariat for this term of the Council and its Director, Professor Samita Sen, General Secretary, Indian Association of Women's Studies (2008-11). Currently, Professor Samita Sen is member of the Executive Committee.
- Professor Sen is a member of the UGC National Consultative Committee on Capacity Building for Women Managers in Higher Education.
- Member, National Consultative Committee, UGC Capacity Building for Women in Higher Education Programme and also member of its National Sub-committee, NID Cell (from 2010).
- Professor Samita Sen, and Srimati Sarbani Goswami, Research Officer, of the School of Women's Studies are members of the Board of Studies of the Women's Studies and Women's Empowerment programme of the Netaji Subhas Open University.
- Professor Samita Sen is a member of the Expert Committee of the MPhil and PhD programme of Women's Studies conducted by Indira Gandhi National Open University along with the Centre for Women in Developing Societies.
- Professor Samita Sen attended a Review Committee Meeting, Women's Studies Curriculum, TISS Campus, Mumbai, 14 January, 2013.

42. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

- This period is particularly significant in the life of the School of Women's Studies, Jadavpur University because the School was informed by the UGC in a letter dated 15 June 2011 about its status being upgraded to that of an advanced center with a concomitant increase in funds allocation. This was followed up by another letter dated 5 March 2012 that awarded the School with eight teaching, five non-teaching and four research posts. This was in recognition of the contribution by the School in the field of women's studies in the last five years under the XIth Plan period.
- UKARC has earmarked the School as one of the 13 places in India to invest in arts and culture.

43. Briefly highlight contributions in generating new knowledge, basic or applied.

- The M.Phil dissertations and Ph.D scholarships have opened up wide possibilities of research areas and new thematic specializations. These have inspired us to look at the future of Women's Studies as a vibrant interdisciplinary field. The mission has been to extend and incorporate into teaching the new dimensions developing in our research. The different projects carried out in the School have also reflected the contextual complexities in which gender discrimination is taking place. This has led to the production and publication of four readers specially designed to cater to students learning needs. This is particularly timely since there is a huge paucity of such material. Even as the discipline is developing at a great speed, there aren't enough

resources being generated to keep pace with this development. *Cultural Constructions of Gender*, edited by Kavita Panjabi and Paromita Chakravarti was released in 2012. This followed up on *Mapping the Field: Gender Relations in Contemporary India (Vol. I + II)* edited by Nirmala Banerjee, Samita Sen, Nandita Dhawan which was released in 2011. The manuscripts of the remaining two Readers on Women's Studies are ready and have been submitted to the publisher. They are: *Women's Writings in Bengali* (in translation), edited by Ipshita Chanda and Jayeeta Bagchi and *Women Writing Gender: Voices and Verses from Talking Stars*, edited by Madhuja Mukherjee).

- Three ten-day SRTT residential workshops where epistemological questions vis-à-vis feminist philosophy and the pedagogy of women and gender studies were part of the academic deliberations.
- From the RLS project, basic and applied new knowledge materials like research reports, edited volumes and directory of legal help for women affected by domestic violence were produced.
- The School also had a digital archive of women's photographs from Bengal.
- About 20 occasional papers by young scholars and senior experts have been published by the School under the SRTT and other programmes.
- The School has been producing the Women Writers' Reprint Series, one of the flagship projects of the School for more than two decades, with critical annotations and introductions. It mostly features lost writings of Bengali women writers from the mid 19<sup>th</sup> to mid 20<sup>th</sup> century.

See Annexure for a list of the readers, occasional papers, reports and Women Writers' Reprint Series produced by the School of Women's Studies

#### 44. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC)

*Strengths*

1. The SWS has a interdisciplinary faculty with strong teaching potential .The School has developed into an efficient teaching centre with M.Phil, ED courses and PhD programmes running successfully. The School is also a site for effective interdisciplinary research with research projects being funded and/or collaborated by many international, national and regional organizations (universities, colleges, women's groups, NGOs). The Project-teaching interface together with extensive outreach and advocacy programmes of the school at different levels have truly helped in linking researches with theories.
2. The school's regional presence, mentoring activities , alliances with other centres and various other activities led the SWS to be an advanced centre of Women's Studies from the XIth plan .
3. The Centre has published extensively in English as well as regional languages which include textbooks, readers, handbooks, occasional papers, newsletters, etc.
4. The School has a strong documentation component on women's studies, with a special library housing a large collection of books, journals, digital resources, archives, project reports, occasional papers, reference materials, etc. The library is accessed by local, regional, national and international users.
5. The Centre has strong organisational capabilities and has organized conferences, seminars, workshops, refresher courses, training programmes at local and national levels and even with international collaborations.

*Weaknesses*

1. The school has inadequate infrastructural facilities in terms of (a) enough physical space for class rooms that could conduct M.Phil, ED courses and Ph.D programmes simultaneously. There are also no separate seminar rooms. (b) Availability of

sufficient and safe drinking water because of only two tanks supporting four full departments in four different floors, (c) installation of AC machine in the Library due to electrical overloading in Rabindra Bhavan making it impossible to preserve certain old and precious materials properly and (d) security in the building.

2. The School has a limited number of permanent faculty and needs to make the contractual faculty permanent in order to start a full fledged M.A course in near future.
3. The School needs to have more texts for their students in regional languages.
4. The School has to build infrastructure and resources for creating digital archives.
5. The School have no sustained programme for career counselling or placement. The school needs planning to ensure that students are helped in terms of gaining work experience and placement after they complete their M.Phil programmes.

#### *Opportunities*

1. There is a need for introduction of a MA programme and revisioning of the MPhil programme.
2. There is an opportunity for greater academic exchange between faculty at School and outside through internal monthly seminars (as a follow up of the Women's Studies Research Forum)
3. There is a possibility of greater interaction with students through performance based workshops and gender sensitization workshops
4. There is availability of larger pool of academic resources at School which will strengthen and diversify teaching and research.
5. There is enough scope for professionalization of WS

#### *Challenges*

1. To get state concurrence for the 12<sup>th</sup> Plan contractual posts in order to start a MA course in near future.
2. To offer Women's Studies courses at the MA and MPhil level as optional papers to students of other departments in other Faculties and developing WS as a discipline as well as maintaining its interdisciplinarity
3. To improve the infrastructure of the School.
4. To maintain the status of excellence in terms of promoting and strengthening women's studies through teaching, training, research, dissemination of knowledge, field action projects and advocacy and also to involve the student community of SWS in the different programmes and events of the School, University and outside.
5. To continue with the twinning and clustering activities of the School by reaching out to non-UGC centres of Women's Studies, colleges, students and teachers of other departments in universities/colleges, NGOs, neighbourhood communities, etc

#### 45. Future plans (in as much detail as possible):

##### *Curriculum Development and Launching of a New Course*

- One of the major plans for this year is the development of a curriculum for an M.A in Women's Studies Programme. We have constituted two core committees to look into the development of the curriculum. One of the committees is looking into the statutes to be kept in mind while formulating the course and the introduction of the programme; the second committee is looking at the content of the course.
- Along with the development of a new M.A syllabus, we are also planning to revise the existing M.Phil, Ph.D and Extra Departmental [ED] courses since they have completed five years after the last curriculum revision in 2007.

### *Outreach and Extension Activities*

- The School plans to organise a series of dance/theatre workshops with an emphasis on gendering the space of performance and performance studies. The process of cultural production is envisioned as a creative method of engaging the wider student community with contemporary social and political issues. The School also hopes to develop performance studies as an emerging area of research.
- The School also plans to organise a series of student workshops starting with the host University and then spreading to other colleges and Universities in the region. This is conceptualized as a travelling workshop that would be participatory and context specific, focusing specifically on the different kinds of sexual violence, understanding their nature and history and evolving strategies for challenging and curbing such violence.

### *Conferences/Seminars/Annual Lectures*

- Three memorial lectures –Preetilata Waddadar memorial lecture, Sukhalata Rao memorial lecture and Sulekha Dasgupta memorial lecture and an annual conference are in the pipeline. The School, in collaboration with the Rosa Luxemburg Stiftung (RLS) is also organising an International Workshop on Gender and Migration on 22<sup>nd</sup> and 23<sup>rd</sup> August 2013.
- In this year the School plans a revival of the Ph.D Researchers Forum, which was discontinued for a few years. It seeks to expand the scope of the forum. There are plans to include not only internal faculty and faculty from other departments within the University but also faculty from outside the city.

### *Short Term Course*

The School used to run a legal literacy programme with the Department of Continuing Adult Education. However, the programme was discontinued for various reasons after some time. The School feels that in the context of increase in reported cases of sexual violence, there is a need to initiate a legal literacy programme. In this year the School plans to work towards conceptualising this programme and ways of taking this forward.

### *Upgradation of the School's website*

We plan to upgrade the School's website and make it more interactive. There are plans to upload research Reports, Working papers and other publications of the School on the website along with information about events, seminars and academic programmes.

### *Archiving and Digitalisation*

The School plans to digitalise a large part of the library, especially rare texts and documents which are extremely fragile.

### *Celebration of International Women's Day*

As in the previous years, we plan to celebrate International Women's Day and hope to involve larger groups of people to increase our outreach.



# **SPECIAL PROGRAMMES**



## TEQIP

1. Name of programme: Technical Education Quality Improvement Programme

2. Faculty to which attached: Faculty of Engineering and Technology

3. Administrative body for the programme:

The Executive Council is the administrative body of the programme. The Vice-Chancellor is the programme head as the head of the institution. A senior professor acts as the coordinator and for different activities, there are faculty members acting as nodal officers for implementation of the programme. For the Centre of Excellence under phase-II, there are also a coordinator and a set of nodal officers.

Coordinator of Phase-II: Prof. Sivaji Bandyopadhyay, Dean, Faculty of Engineering and Technology.

Coordinator of Centre of Excellence: Prof. Provash Chandra Chakraborti, Professor, Department of Metallurgical and Materials Engineering.

4. Primary purpose of the programme:

The Technical Education Quality Improvement Programme of Government of India (TEQIP), has been conceived in pursuance of the National Policy of Education 1986 (NPE-1986, as revised in 1992). The Programme aims to scale up and support ongoing efforts of the Government of India to improve quality of Technical Education and enhance existing capacities of the institutions to become dynamic, demand-driven, quality conscious, efficient and forward looking, responsive to rapid economic and technological developments occurring at the local, State, National and International levels. It has a clear focus on improvement of the overall quality of existing Engineering Education. Jadavpur University completed the Phase-I of this programme successfully and now Phase-II is ongoing.

The broad objectives of TEQIP Phase-I were the following:

- To create an environment in which engineering institutions selected under the Programme can achieve their own set targets for excellence and sustain the same with autonomy and accountability.
- To support development plans including synergistic networking and services to community and economy of competitively selected institutions for achieving higher standards.
- To improve efficiency and effectiveness of the technical education management system in the States and institutions selected under the Programme.

Phase-II of the Programme focuses on the following objectives:

- Scaling-up Postgraduate Education and demand-driven Research & Development and Innovation
- Establishing Centres of Excellence for focused applicable research
- Training of faculty for effective Teaching
- Enhancing Institutional and System Management effectiveness

5. Year of establishment:

Phase-I MoU was signed on 29<sup>th</sup> November, 2004 and ended on 31<sup>st</sup> March, 2009.

Phase-II MoU was signed on 6<sup>th</sup> September, 2011 and to be ended on 31<sup>st</sup> December, 2014.

6. Funding agency/agencies: Government of India and Government of West Bengal, with financial assistance from World Bank.

7. Does the programme have separate sections/different wings under it (for example, does it have separate committees or funds for research, teaching and outreach)? If so, please give details:

**Expenditure in Phase-I**

| Sl. | Activities                      | Expenditure<br>(Rs. In Lakh) |
|-----|---------------------------------|------------------------------|
| 1   | Civil Works                     | 220.00                       |
| 2   | Equipment & Furniture& LR       | 1747.05                      |
| 3   | Consultant Services             | 17.04                        |
| 4   | Faculty & Staff Development     | 182.89                       |
| 5   | Incremental Operating Cost      | 62.83                        |
| 6   | Networking for Institution      | 61.78                        |
| 7   | Services to Community & Economy | 132.50                       |
|     | Total                           | 2424.09                      |

**Allocation in Phase-II**

| Sl. | Activities  | Budgetary<br>Allocation<br>(Rs. In Lakh) |
|-----|---|--|
| 1   | Procurement of Goods  | 562.50                                   |
| 2   | Teaching and Research Assistantships                        | 250.00                                   |
| 3   | Enhancement of R&D and Institutional Consultancy Activities | 62.50                                    |
| 4   | Faculty and Staff Development                               | 125.00                                   |
| 5   | Industry Institute Interaction                              | 62.50                                    |
| 6   | Institutional Management Capacity Enhancement               | 25.00                                    |
| 7   | Institutional Reforms                                       | 12.50                                    |
| 8   | Academic Support for weak students                          | 25.00                                    |
| 9   | Incremental Operating Cost                                  | 125.00                                   |
|     | Total   | 1250.00                                  |

**Additional Allocation for Establishing Centre of Excellence under Phase-II**

| Sl. | Activities  | Budgetary<br>Allocation<br>(Rs. In Lakh) |
|-----|---|--|
| 1   | Procurement of Goods  | 275.00                                   |
| 2   | Teaching and Research Assistantships                        | 50.00                                    |
| 3   | Enhancement of R&D and Institutional Consultancy Activities | 50.00                                    |
| 4   | Faculty and Staff Development                               | 50.00                                    |
| 5   | Industry Institute Interaction                              | 25.00                                    |
| 6   | Incremental Operating Cost                                  | 50.00                                    |
|     | Total   | 500.00                                   |

### 8. Activities undertaken by this programme, during the period 2008-2013:

| Sl. | Different Areas  | Activities under Phase-I   | Activities under Phase-II  |
|-----|--|--|--|
| 1   | Reorientation and Restructuring of UG/PG Programmes        | Reorientation of four Bachelors and two Masters Engg programmess completed.  | Restructuring of UG and PG programmes is under process.  |
| 2   | Introduction of New Courses                                | Introduced 9 Masters programmes during this phase.   | Introduced 7 Master programmes during phase-II   |
| 3   | Creation of New Laboratory                                 | Five new central laboratories has been created.  | Seven new programme specific laboratories are under the process of creation  |
| 4   | Modernization of Laboratories                              | Taken up for the entire faculty  | Taken up for the entire faculty  |
| 5   | Interaction with Industry                                  | Enhancement of consultancy activity and product commercialization.   | Arrangement of expert lectures. Commercialization of products.   |
| 6   | Upgradation of Campus Wide Networking                      | A comprehensive upgradation of campus wide network has been completed with all the active networking components, voice equipments, and security equipment  | Not under the purview of Phase-II  |
| 7   | Implementation of E-Learning Techniques                    | A central repository of softwares is created   | Upgradation of the repository.   |
| 8   | Faculty and Staff Development                              | Training of Faculty members at different national and international laboratories.<br>In-house administrative staff training. Technical staff trained at different national institutes.                                     | Training and attending seminars for faculty members (National and International)<br>In-house administrative staff training.  |
| 9   | Networking Activities                                      | Dual PhD program initiated with Virginia Tech, USA. MOUs signed with academic institutes from various countries.<br>Community radio service implemented. Video conferencing and classroom class-room facility implemented. | Not under the purview of Phase-II  |
| 10  | Tribal Development Activities/ Support for Weaker Students | Creation of language laboratory in the Salt Lake campus.<br>Creation of PC Bank to provide loan to weaker section of students  | Support for remedial teaching. Creation of finishing school facilities.  |
| 11  | Services to Community                                      | Initiated Thirty-three different activities with specific objectives of getting deliverables that will have direct bearing on the community well being.  | Not under the purview of Phase-II  |
| 12  | Civil Works  | Construction of TEQIP Building.  | Not under the purview of Phase-II  |
| 13  | Establishment of Centre of Excellence                      | Not under the purview of Phase-I   | A Centre of Excellence on Phase Transformation and Product Characterization has been established. Development of laboratory facilities, manpower development, interaction with industries, enhancement of R&D etc. are the major activities under this centre. |

### 9. Extension activities of the programme, if any:

Services to Community and Economy was a major activity under phase-I. Supports were extended to the stakeholders of the university to study the problems of small farmers,

artisans, small industries and the common people at close length and suggest appropriate inventions. Thirty-three different activities have been identified by holding discussions with NGOs as well as broad spectrum of people acting in different sectors so that the activities are directly related to the need of the relevant sectors of the society. The relevant technologies were tested in work-field and transferred to the related areas, like improvement of combustion efficiency of domestic LPG burners, deployment of bicycle powered cost effective rural lighting system, fortification of extruded food with commonly available micronutrients to combat malnutrition in rural areas etc. The stakeholders of the university have also provided training to artisans for effectiveness and standardization of the product. A compendium on such works has also been published by Jadavpur University with State Project Facilitation Unit, West Bengal.

10. Collaboration with other institutions/centres/agencies/etc, if any: Not Applicable

11. Consultancy conducted by the programme and funds generated, if any: Not Applicable

12. Publications generated by the programme, if any: Not Applicable

13. Any other highlights you would like to mention:

14. Future plans:

- i. To continue providing TEQIP teaching assistantship to Masters and PhD students
- ii. To provide foreign fellowships not exceeding 3 months for Doctoral Students
- iii. To provide support for research projects taken by UG/PG students
- iv. To organize conferences on R&D topics
- v. To provide support to faculty members for patenting of technologies
- vi. To facilitate faculty training in pedagogy
- vii. To provide support to faculty members for participation in outstation seminar/conferences/ workshops etc.
- viii. To organize training/development of technical / support staff
- ix. Organizing in-house subject area training programs / workshop / seminars / conferences / pedagogical training
- x. To organize short term workshops with Industry
- xi. To facilitate Exposure/Training of senior teaching/non-teaching members in management capacity development
- xii. NBA Accreditation of UG and PG programs in Faculty of Engineering and Technology
- xiii. Curricula Revision / Restructuring
- xiv. To organize workshops/meetings with Industry related to campus placement
- xv. To provide support for UG//PG Student Exchange Programs
- xvi. To provide support to academically weak students to enhancement their knowledge and skills

## SYLFF

SYLFF (Ryoichi Sasakawa Young Leaders Fellowship Fund) Programme at Jadavpur University (JU-SYLFF Programme) - a special programme under Jadavpur University with one million dollar endowment.

1. Year of establishment: 2003
2. Faculty to which the Department/School/Centre is attached: Faculty of Arts
3. Names of programmes offered: The JU-SYLFF Programme is a special and prestigious fellowship programme at Jadavpur University. In 2003, Jadavpur University was the first Indian university (and the first higher educational institute in South-East Asia) to receive a one-million dollar endowment from the Nippon Foundation, Japan, for encouraging research in the humanities and social sciences. The fellowships are provided to M.A., M. Phil. and Ph.D. Level fellows willing to pursue research under the Faculty of Arts, Jadavpur University. Candidates are selected after a vigorous screening by a selection committee and offered fellowship money from the interest generated by the endowment. At present, Jadavpur University and Jawaharlal Nehru University are the only two Indian institutes of higher learning that are running this international fellowship programme in India.
4. Interdisciplinary programmes being conducted and other departments involved: The JU-SYLFF Programme encourages young researchers to take an inter-disciplinary approach towards socio-economic, historical, political and cultural issues, and to understand social change and sustainable development in a holistic manner. The fellows are mentored by guides from their respective departments, and also faculty from other departments of the Faculty of Arts, Jadavpur University, in the tri-monthly Progress Report Workshops. In the past ten years of this programme, JU-SYLFF has had researchers from the various departments under the Faculty of Arts, including English, History, International Relations, Economics, Comparative Literature, Sociology, and also from the School of Women's Studies.

Courses in collaboration with other universities, industries, foreign institutions, etc.: JU-SYLFF fellowship awardees are offered a chance to visit universities overseas to do comparative/cross country research. A (non-exhaustive) list of foreign universities visited by JU-SYLFF Fellows are as follows:

Howard University (Washington, D.C.), USA

University of Maryland, USA

York University, Canada,

American University, Cairo, Egypt

University of Bath, UK

ANU, Sydney, Australia

El Colegio de Mexico

Waseda University, Japan

Central European University, Hungary

5. Participation in courses offered by departments: All students under this programme have to take courses (and register themselves formally) with a department under the Faculty of Arts.
6. Number of academic support staff (technical) and administrative staff - sanctioned, filled and actual: The JU-SYLFF Steering Committee governs the programme at the university level and the JU-SYLFF Project Director is in charge of the academic and administrative management of the programme. The Project Director is also the liaison person between the Steering Committee and the funding organization (The Nippon Foundation, Japan).

The Project Assistant (recruited from students) provides administrative support to the Project Director in managing the programme.

7. Research thrust areas as recognized by major funding agencies: Tradition, Social Change and Sustainable Development with a Holistic Approach. This has been approved and supported by the Nippon Foundation and the Tokyo Foundation, Japan.
8. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

The SYLFF (Ryoichi Sasakawa Young Leaders Fellowship Fund) endowment of one million USD was won by the University competitively in 2003. Nippon Foundation, Japan is the funding agency. The objective of this award is to help outstanding postgraduate students of this university to pursue research in social sciences and humanities from the interest money received from the long –term investment of the original endowment amount. The SYLFF fellowship amount is the highest in India, when compared to other fellowship programmes in India, including that offered by the UGC.

9. Inter-institutional collaborative projects and associated grants received  
SYLFF is an international programme for a network of 69 universities/institutes in 44 countries. Through SYLFF, fellowship recipients become a part of the global partnership programme through SYLFF Research Abroad, SYLFF Leadership Initiatives and SYLFF Fellows' Forum. These programmes are aimed at facilitating the fellows' academic advancement, leadership development, and networking among one another. SYLFF Research Abroad (SRA) awards support academic research of SYLFF fellows related to Doctoral dissertation, conducted as a non-degree student at any institution of higher learning in a foreign country. SYLFF Leadership Initiatives (SLI) award recognizes and supports fellows who have demonstrated outstanding leadership and commitment to society. The Facebook page of SYLFF is designed to encourage communication within the SYLFF community and beyond. SYLFF Leadership Initiatives and SYLFF Fellows Forum are organized in collaboration with the SYLFF community from other SYLFF institutes. This gives the SYLFF fellows a global platform to represent their Universities and countries as well as sharpen their leadership skills so as to become global leaders of the future.
10. Research facility/centre run by the Dept./school/centre which has:  
M.state recognition  
MI. national recognition  
MII. international recognition

*International recognition:* SYLFF is a fellowship programme funded by The Nippon Foundation, a Japanese non-profit foundation administered by Tokyo Foundation under the approval of Japanese Ministry of Land, Infrastructure and Transport. It provides financial support and opportunities to the best and bright students worldwide intending to pursue higher education programmes in the social sciences and humanities who exhibit leadership potential. Starting from 1987 as of now, there are 69 SYLFF endowed universities and consortia in 44 countries of Africa, Asia, Central and South America, Europe and Middle East, North America and Pacific. There are now more than 12,000 fellows worldwide.

11. Publications: Please see Annexure
12. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted: Every year, JU-SYLFF Programme organizes a Pre-application Orientation Workshop to guide fellowship applicants on writing a good research proposal. All questions asked in relation to writing a research proposal are dealt with, and aspiring researchers are provided with a comprehensive



knowhow of proposal writing in this Orientation Programme.

13. Awards / recognitions received at the national and international level by

JU-SYLFF Fellows

✧ Madhuchanda Ghosh:

- Fellows Mobility Programme award
- Participated in Building a Better Asia. .

✧ Ritajyoti Bandyopadhyay:

- Fulbright Fellowship award to visit UC Berkeley, USA,
- Research Scientist at Gottingen University, Germany.
- Fellow Mobility Programme award
- Participated in Building a Better Asia.

✧ Payoshni Mitra:

- Earned a name in her own research area of 'Gender and Sports' and consulted by various ministries in India.
- Fellow Mobility Programme award
- Participated in Building a Better Asia. .

✧ Duke Ghosh:

- ✧ Fellow Mobility Programme award
- Participated in Building a Better Asia

✧ Shreerupa Sengupta :

- SYLFF Research Abroad award.
- Participated in Building a Better Asia.

✧ Shubhasree Bhattacharyya::

- SYLFF Research Abroad award.

✧ Abhishek Basu:

- Leads his own theatre group 'Nautanki' which already has a few outstanding successes/awards to its credit.

✧ Rimple Mehta:

- SYLFF Research Abroad Award.
- Her research has been awarded the Enloe Award for 2013 for publication in International Feminist Journal of Politics 2013

✧ Shyamasree Dasgupta,

- SYLFF Research Abroad award
- '2012 Donella Meadows Fellow' award from The International Network of Resource Information Centers (The Balaton Group).

✧ Nilanjan Das

- Presidential Graduate Fellow in the Department of Linguistics and Philosophy, Massachusetts Institute of Technology (MIT).
- Had been selected for the prestigious Rhodes Scholarship 2011 for B. Phil. at Oxford University, England.

14. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

In 2007 Regional Forum for Asia Pacific Region was organized by JU-SYLFF where 60 participants from 15 countries participated and deliberated on "Creative Leadership". It was funded by Tokyo Foundation. Besides paper presentation there were key note address and training workshops.

In 2013 one day programme was organized to celebrate ten years of the programme. Inaugural speech was by Mr Sasakawa who attended with a team of 12 participants from Japan. 10 year celebratory Lecture was delivered by Advisor to Finance Minister , GOI,

Dr Parthosarathi Shome chaired by industrialist Harsh Neotia. Debate on the theme 'leadership is more important than governance' was organised by JU-SYLFF Association with invited speakers like: State higher education council chairman, Eminent academicians, Retired IAS officer, NGO activist. Jointly funded by Nippon Foundation, Tokyo Foundation, JU, Ju-sylff association.

SYLFF Programme also regularly organizes lecture sessions and workshops involving the national and international experts to provide researchers and aspiring researchers of this university with an insight into the emerging issues and unexplored research frontiers in the domain of inter-disciplinary studies. A non-exhaustive list of the invited lectures are as follows:

- On 5<sup>th</sup> April 2012, Ranjita Biswas (Ph.D.), School of Women's Studies, Jadavpur University, delivered a lecture on Gender and Violence.
- On 18<sup>th</sup> April 2012, Carlos Moreno-Leguizamon (Ph.D.), Graduate SYLFF Fellow, Howard University, and Senior Lecturer and Programme Leader, M. Sc. Research in Health and Social Care, University of Greenwich, London, UK, conducted a workshop on Critical Thinking in Health Sciences.
- On 20<sup>th</sup> April 2012, Professor Shefali Moitra, Former Professor, Department of Philosophy, Jadavpur University, spoke on Feminist Critique of Natural and Social Sciences.
- On 10<sup>th</sup> May 2012, Graduate JU-SYLFF fellow, Abhishek Basu (Ph.D.), Research Associate, Rabindranath Studies Centre, Jadavpur University, as well as the director of a prominent theatre group, spoke on Spaces & Places: Rabindranath Tagore, Theatre & Rural Reconstruction.
- On 18<sup>th</sup> July 2012, Nora Räthzel, Professor of Sociology, Umea University, Sweden, delivered a lecture on Trade Union in the Green Economy: Tackling the Jobs, Environments, North- South Contradictions.
- On 24<sup>th</sup> August 2012, immediately after SYLFF Orientation Workshop, Graduate JU-SYLFF fellow, Ritajyoti Bandyopadhyay (Ph.D.), Research Scientist, Gottingen University, Germany, delivered a well-deliberated talk on Provisioning Indian Cities: Speculations on the Question of FDI in Calcutta's Wholesale-Retail Network on behalf of a group of research collaborators namely Kishor Bhat, TVH Prathamesh, Nilanjan Pande and himself.
- On 11<sup>th</sup> October, Carlos Moreno-Leguizamon (Ph.D.) visited Jadavpur University again to deliver a lecture on Monitoring, Evaluation and Impact of Research Projects.
- On 4<sup>th</sup> January 2013, Ritajyoti Bandyopadhyay (Ph.D.) presented again an excellent deliberation on Political Economy of India's Unique Identification (UID) Project.
- Nilanjan Pande has given an exploratory presentation on Erosion – Afflicted Population Groups in Malda: Identity, Politics & Livelihood on 27<sup>th</sup> February 2013.
- On 8<sup>th</sup> March 2013, Professor Takaaki David Ito, from Momoyama Gakuin University (St. Andrews University), Japan, has delivered a lecture on Japan as an Ageing Society and the Social Welfare System to strengthen the bonds between the two institutes. Consequent discussions emphasized the urgent need to adopt a new approach towards this complex social problem.
- On 9<sup>th</sup> April 2013, Payoshni Mitra (Ph.D.) has given an insightful presentation on Let me tell you if you are a woman which was a discussion on IOC/ IAAF policies

on gender - verification and female hyperandrogenism. The presentation revealed a lot of hitherto unrevealed dimensions in the official gender determination test and the built in lacuna of the whole process which is grossly insensitive as well.

All these sessions were followed by discussion which revealed important perspectives in different fields of contemporary studies.

15. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.  
50% of JU-SYLFF fellows have taken up and cleared NET/SLET
16. List of doctoral, post-doctoral students and Research Associates
  - a) from the host institution/university: Doctoral students: 75%
  - b) from other institutions/universities: 25%
17. Number of post graduate students getting financial assistance from the university.  
One to three each year, in the form of one year fellowship for MA and MPhil students, and a three year fellowship for PhD students.
18. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.  
The programme emerged out of faculty wide consultation process involving faculties, and students.
19. Does the department obtain feedback from
  - ▲ faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
  - ▲ students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
  - ▲ alumni and employers on the programmes offered and how does the department utilize the feedback?

The programme gets enriched by all participants through feedback mechanism which is followed formally through feedback forms, and also through the tri-monthly Progress Report Workshops.
20. List the distinguished alumni of the department (maximum 10)
  - ▲ Madhuchanda Ghosh,- Graduated SYLFF Ph.D Fellow Assistant Professor, Department of Political Science at Presidency University, Kolkata, India.
  - ▲ Ritajyoti Bandyopadhyay, Graduated SYLFF Masters' and Doctoral Fellow Assistant Professor at Centre for Studies in Social Sciences, Calcutta (CSSSC).
  - ▲ Sulagna Maitra, Graduated SYLFF Masters Fellow, has received her Ph.D degree from University College Dublin, Ireland and has been serving as the Coordinator, Humanitarian Action Programme (NOHA) at University College Dublin, Ireland.
  - ▲ Shubhasree Bhattacharya, Graduated SYLFF Doctoral Fellow, qualified UGC NET examination with JRF and is working as Assistant Professor at the Department of Modern Indian Languages and Literary Studies, University of Delhi.
  - ▲ Abhishek Basu, Graduated SYLFF Doctoral Fellow, is now Research Associate at the Centre for Tagore Studies, Jadavpur University. He is also leading his own theatre group 'Nautanki' which already has a few outstanding successes to its credit.
21. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

JU-SYLFF Association organizes regular lecture sessions for the academic enrichment of the SYLFF community and university students in general. From the interaction with the guest speakers, the fellows and JU students receive information about newly emerging areas of research and that also makes possible multidisciplinary knowledge enhancement. These lecture sessions involve external experts quite often.

- vii) Carlos Moreno-Leguizamon (Ph.D.), Graduated Sylff Fellow from Howard University, USA and currently Programme Leader, M. Sc. Research in Health and Social Care, University of Greenwich, UK, visited Jadavpur University to conduct a workshop on 'Critical Thinking in Health Sciences' and later to deliver a talk on 'Monitoring, Evaluation and Impact of Research Projects'.
  - viii) The lecture session on 'Trade Union in the Green Economy: Tackling the Jobs, Environments, North- South Contradictions' was delivered by Nora Räthzel, Professor of Sociology in Umea University, Sweden, as a part of this lecture series.
  - ix) Takaaki David Ito, Professor, Momoyama Gakuin University (St. Andrew's University, Japan), delivered a talk on 'Japan as an Ageing Society and the Social Welfare System' to strengthen the bonds between the two institutes. Consequent discussions emphasized the urgent need to adopt a new approach towards this complex social problem.
  - x) Ritajyoti Bandyopadhyay, Graduated Sylff Fellow from Jadavpur University and also Fulbright Fellow, from Gottingen University, Germany, delivered two lectures, one on 'Provisioning Indian Cities: Speculations on the Question of FDI in Calcutta's Wholesale-Retail Network' and the other on 'Political Economy of India's Unique Identification (UID) Project'.
  - xi) Payoshni Mitra, Graduated SYLFF Fellow from Jadavpur University and now an independent research consultant and an activist in gender and sports based in UK, delivered a talk on 'Let me tell you if you are a woman: A discussion on IOC / IAAF policies on gender - verification and female hyperandrogenism'.
  - xii) All the SYLFF Fellows' enthusiastic participation in the planning for the 10<sup>th</sup> Anniversary celebration of SYLFF Programme at Jadavpur University reinvigorated the community feeling among them and played a crucial role in the large – scale dissemination of the Programme. A few world- renowned international experts, representatives from State and Union Ministries and representatives from the funding agency in Japan have been invited to grace this Programme.
22. How does the programme ensure that objectives are constantly met and learning outcomes are monitored?
- iii) Sylff Fellows' Progress Report Workshops are held quarterly to evaluate the progress of the research work of the fellows. In these workshops, the fellows present their ongoing research work before the Sylff Steering Committee and other academicians and experts. They receive feedback from them and from other fellows as well through constructive, critical and enriching discussions. This offers the fellows to come out of their disciplinary bias and develop a multi – disciplinary outlook towards the specific areas of research taking the cue from the experts and the fellow researchers from different disciplinary backgrounds.
  - iv) Weekly informal meetings and brainstorming sessions are held to discuss research among peer groups. These meetings help the fellows to learn more about each other's disciplines create a dialogue on contemporary issues and encourage them to develop a critical perspective towards social reality.
  - v) Annual reporting to funding agency about progress and achievements.
  - vi) Publication in peer reviewed journal is mandatory and discussion sessions to upgrade write ups to Journal article level and formally discussed at PRW meetings.
  - vii) Fellows edit and publish a newsletter annually to show case the research/thought pieces for global readership.

23. Highlight the participation of students and faculty in extension activities.

Exploring global cultures: Fellowship recipients become a part of the global partnership programme, through participation in SYLFF Leadership Initiatives and SYLFF Fellows' Forum, Fellows' Mobility programme, by writing columns in sylff voices. These programmes are aimed at facilitating the fellows' academic advancement, leadership development and networking among one another.

Social Action Program: Fellows have formed an association and pay annual visit to the Leprosy Mission Hospital, Kolkata, every year. The fellows interact with the patients there and contribute to destigmatisation campaign regarding leprosy. The fellows network with NGOs working relentlessly for the education of the under-privileged children. The Association pays regular visits to the model schools run by NGOs for alternative education providing 'training in life skills' to these children.

24. Give details of "beyond syllabus scholarly activities" of the department.

Despite their very tight research mandate, the JU- SYLFF Fellows have still continued the tradition of bringing out the annual newsletter that started way back in 2005. This newsletter published by the JU-SYLFF Association, is not only an account of the Association's activities but also a reflection of how its research and actions have contributed towards social change. As one goes through the newsletter, it is interesting to observe how fellows address their research issues from different disciplinary concerns, finally converging upon the issue of overall transition towards equity and sustainability.

They have started organizing a lecture series involving visitors from abroad and local academicians and the most appreciable effort here is to invite JU-SYLFF graduated fellows as speakers. This not only provides them encouragement from past fellows' achievements and progress but also helps them to build their rich alumni network. The original idea behind this was to involve academic experts and graduated Sylff fellows for the academic enrichment of the Sylff community and university students in general. Some excellent lecture sessions were held under the banner of JU-Sylff Association.

25. State whether the programme is accredited/graded by other agencies. If yes, give details: The programme originated after evaluation of institutions across India and Jadavpur University was the first Indian University to get the one million dollar endowment to get into the global network of 66 institutions across 44 countries.

26. Briefly highlight contributions in generating new knowledge, basic or applied.

SYLFF is a multi-disciplinary global platform through which the enthusiastic researchers of social sciences can contribute towards social change in their specific fields of research through a much broader outlook and truly international understanding. The primary objective of this programme is to create a new generation of scholarly leaders who have a vision for the future and the courage to strive for it and who can see beyond the boundaries of their disciplines, geographical boundaries and boundaries artificially created by caste, race, economic deprivation, social taboos and political barriers.

Through this programme the young and outstanding researchers with high potential for leadership in national, regional and international affairs, in private life as well as in private endeavours are identified at the outset and awarded the fellowships. Consequently they receive training in multi – disciplinary approach, communicate with their foreign counterparts through participation in global forums and international conferences / seminars/ workshops, broaden their research outlook through carrying out a part of their research in an institute of international fame and assimilating and

synthesizing this enriching global experience in his own research work and are also initiated in progressive social actions that enhance their social leadership to a great extent. The greatest achievement of this programme lies in seeing this gradual evolution of its fellows – from learners to scholars, from scholars to leaders and from leaders to the future visionaries.

27. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).

*Strengths*

- Highest valued scholarship in India.
- Maintaining high standard research outputs over last ten years.
- Regularity in continuing the Progress Report Workshops, and inviting the best experts and academicians on the field as external experts to the screening of candidates
- The strict insistence on the submission of PhD within three years, and regular supervision through Progress Report Workshops, which has ensured a quicker completion rate
- Introducing and encouraging students to pursue inter-disciplinary researchers

*Weaknesses*

- Inability to employ a full time staff to administer the programme with increasing size of the programme.
- Inability to offer post-doctoral fellowships
- Comparative weakness in publicizing the course throughout India
- Comparative weakness in attracting international students to pursue research at Jadavpur University Comparative weakness in attracting other universities to the benefit of this fellowship programme
- Endowment money is fixed and interest earning dwindling with international market fluctuation posing a problem of expansion of the programme.

*Opportunities*

- To use the programme as a platform for internationalization of Jadavpur University given the existing network of 69 institutions.
- To attract and house best minds in the theme to undertake research in JU
- To get very good publishable volumes
- To make unique selection and progress report workshop processes a model for all research programmes in India.
- Quality monitoring method developed through trial can be formalized for replication

*Challenges*

- Exploring avenues/sources of funds for offering post-doctoral fellowship in the humanities and social sciences so as to keep the good minds in university to add more value through research/compilation of book volumes for couple of years in new research areas.
- Attracting international as applicants and researchers for the programme given current rules
- Financial constraints towards involving major academicians from other universities in the search and selection of the brightest among young researchers
- Building a regular campaign on the aims and objectives of the JU-SYLFF Programme on the national and international level in the absence of regular staff.
- Design of interdisciplinary course work relevant for the research students under sylff programme.

28. Future plans (in as much detail as possible):

To overcome the weaknesses and act towards implementation of opportunities building on strength of the programme, seek support from ICSSR/UGC to enlarge the endowment fund.

## Global Change

1. Name: GLOBAL CHANGE PROGRAMME
2. Year of establishment: 2001
3. Faculty to which attached: Special Programme under Jadavpur University (GCP-JU).
4. Interdisciplinary programmes being conducted and departments involved:  
This is special programme under Jadavpur University that cuts across all departments and is open for participation by students and faculty of all departments engaged in Climate Change Research.
5. Courses in collaboration with other universities, industries, foreign institutions, etc.:  
Short training programmes for government officials, company executives, NGOs are organized from time to time to disseminate knowledge based on new research findings on climate change related science, impact and response strategies.
6. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:  
No of interns visited over 2008-2013: 11 in 2009, 3 in 2011, 7 in 2012, 2 in 2013 (3 from US, rest from India)  
Visiting professors: 1 (USA), 1 (Japan), 3 (UK), 5 (Netherlands), 4 (Germany)  
Visiting scholars: 4 (USA), 2 (Netherlands)
7. Research thrust areas as recognized by major funding agencies:  
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 of 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.
8. Inter-institutional collaborative projects and associated grants received
  - i) National collaboration:  
IISC Bangalore, INRM-New Delhi, TERI University, and Pondicherry University, CII, IIT Guwahati, Madras School of Economics, IGNOU
  - b) International collaboration:  
Chiang Mai University, Thailand; Vrije Universiteit, Amsterdam; Technische Universiteit Eindhoven, The Netherlands; Lawrence Berkeley National Laboratory (LBNL), UC Berkeley, Texas A & M University, USA; National Committee of IGBP, and IUCN, University of Peradeniya-Sri Lanka; Bangabandhu Sheikh Mujibar Rahmun Agricultural University, Bangladesh; and Research Centre for Marine Ecology, First institute of

Oceanography, China ; Centre for Low Carbon Futures, University of Leeds , UK; Freie University, Potsdam Institute, Oke Institute, Germany; CISRO, Monash University, Australia; Korean Institute of Environment, South Korea; York University, Simon Fraser University, Canada; ADB, World Bank.

9. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (Give details.)

- University Grants Commission's (UGC) funded 'University for Potential of Excellence (UPE – II)'s 'Energy, Environment and Climate Change' group is managed by Global Change Programme involving many departments of Jadavpur University. Indo European project mentioned above is funded by ICSSR. UGC provided library grants under plan grants.
- Dr. Mitali Das Gupta is working as a Post Doctoral Fellow for UGC Post Doctoral Fellowship for Women in Economics.

10. Research facility/centre run by the programme:

This programme 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 is also working with the Ministry of Environment and Forest towards the 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 Global Change Programme is involved in the preparation of a comprehensive report to ascertain the climate change impact, vulnerability and mitigation potential within the state of West Bengal.

The national/ international collaborators/ sponsors of the Programme are: Ministry of Environment and Forests, Government of India; Winrock International India; Ministry of Statistics and Plan Implementation, Government of India (MoSPI); West Bengal Academy of Science and Technology; Council of Scientific and Industrial Research (CSIR); Indian Space Research Organization (ISRO); National Communication Programme of the Ministry of Forests and Environment, Government of India (NATCOM I); Central Statistical Organization (CSO), Government of India; National Physical Laboratory, New Delhi (NPL); Asia Pacific Network (APN); Shastri Indo-Canadian Institute (SHARP); South Asian Network for Development and Environmental Economics (SANDEE); SysTEM for Analysis, Research and Training (START); Natural Resources International, UK (NRI); Department for International Development, UK (DFID); Lawrence Berkeley National Laboratory, USA (LBNL) etc.

11. Publications: See Annexure for details

12. Details of patents and income generated:

13. Areas of consultancy and income generated:

The whole programme runs on money coming through projects and university provides a small budgetary support for dissemination activities.

14. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):

- Visit to Technische Universiteit Eindhoven (TU/e), The Netherlands, under the WOTRO - NWO funded multi – country research programme titled “Experimenting for Sustainability in India and Thailand: A transition perspective on sustainable electricity and mobility initiatives” by the Post Doctoral Research Fellow (Duke Ghosh) and The Coordinator (Joyashree Roy) from 20<sup>th</sup> January to 2<sup>nd</sup> February 2013 has been very successful. They attended the Conference on Bio-fuel organized by the Centre for Innovation Sciences, TU/e and the Conference on Sustainable Mobility in the same



institution. They also participated in a meeting to explore research collaboration opportunities in Sustainable Transitions involving Jadavpur University, Alborg (Denmark) and TU/e (The Netherlands).

- Visit to TERI University, New Delhi, by the post doctoral and doctoral research fellows of this Programme (Duke Ghosh, Kuheli Mukhopadhyay, Sayantan Sarkar, Abhijit Das along with the Coordinator of this Programme, Joyashree Roy, and other faculty members from the Faculty of Engineering & Technology, Jadavpur University) to participate in the kick off conference of Indo-European Multi Level Climate Governance Research Network from 10<sup>th</sup> - 12<sup>th</sup> January, 2013.

15. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted:

Workshops and training programmes are held time to time so as to broaden the knowledge base of the students and research fellows and to help them develop new skills. Interactive seminar/ talk sessions are regularly held to provide researchers a glimpse of the different emerging issues and the new frontiers of interdisciplinary research.

16. Does the programme obtain feedback from

- d. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Coordinator and the researchers meet at a regular interval to discuss how the research on different projects will be carried out. These discussions are mainly centred on the framing of key research question, methodologies to be applied to answer those questions and analyzing the research findings to draw specific conclusions which will open new grounds for further research.

- e. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Knowledge sharing interactive sessions have been introduced where the individual researchers share knowledge on a theme that falls under his area of expertise and the other participants are encouraged to learn about the same through a vibrant interaction and short follow-ups. Dialogues among the researchers are encouraged to help them take up a holistic, comprehensive and truly interdisciplinary approach towards research.

Weekly meetings are held to make the researchers aware of one another's research work and share their viewpoints with one another. Issues regarding the general administration of the office are also dealt with in these meetings. In the annual meeting the Coordinators takes feedback from all the research fellows and staffs so that everyone can discuss about the problems (research oriented or administrative) on a common platform and can democratically seek the wayouts. The graduated students and past researchers also attend the same and share their experience of working with the Programme.

- f. Alumni and employers on the programmes offered and how does the department utilize the feedback?

The interns, research associates and visiting researchers, on completion of their term, are asked to give feedback so that the same can be utilized to make the programme more and more student friendly and up to date. Facilities for the interns and researchers are regularly upgraded and their enthusiastic participation is always sought to make the programme successful. The visiting scholars/ working professionals also avail these resources to facilitate their work and share their understanding of global change issues with the researchers at GCP-JU through workshops, seminars and workshops. The alumni acknowledge that these practices

helped them a lot to develop deeper and broader awareness about the climate change issues and interaction with global experts on these issues have made them confident enough.

17. List the distinguished alumni of the programme (maximum 10):

- Moumita Roy, Research Associate of this Programme, is pursuing Ph.D. at Purdue University, USA.
- Anwesha Chakraborty, Associate Researcher of this Programme, is enrolled at the Ph.D. Programme at University of Illinois, Urbana Champaign, USA.
- Sreejata Samajpati, Associate Researcher of this Programme, completed her Doctoral Programme from the Department of Economics, University of Central Florida and is now teaching in US.
- Raman Khaddaria, Visiting Researcher of this Programme, completed Ph D from Florida and is now serving in Corporate sector in US.
- Tamanna Sinha, Visiting Researcher of this Programme, has topped the Indian Economic Service Examination
- Amrita Ghatak, Post Doctoral Research Fellow of this Programme, is now working as Assistant Professor at Gujarat Institute of Development Research (GIDR).
- Sayantan Sarkar, Post Doctoral Research Fellow of this Programme, is now pursuing post- doctoral research at Atmospheric Sciences Research Centre, SUNY, Albany and Wadsworth Centre, New York State Department of health, USA.
- Aparajita Mahapatra, Associate Researcher of this Programme, is pursuing Ph.D. at University of Michigan, USA.
- Bikram Chatterjee, Research Assistant of this Programme, has cracked the State Civil Service Examination and currently serves as a BDO.
- Ayan Sengupta, International Climate Champion of British Council and supported by this Programme, completed his Masters from Warwick Business School, UK and is now working as Consultant at Deloitte, UK.

18. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

1. 2009, March 19, “Low Carbon Growth Path”, jointly organized with Lawrence Berkeley National Laboratory, USA.
2. 2009 June 5, "Climate Responsible Lifestyle Initiative - 2009" jointly organized with Rotary Club of Belvedere gardens, Calcutta
3. 2009, June 10, “Issue Arsenic: Sustaining Technological Solution for Human Wellbeing” jointly organized with Berkeley Arsenic Alleviation Group (BAAG)
4. 2009, August 13, “Building Energy Stimulation Software Installation & Awareness Workshop”, jointly organized with USAID, BEE, ECO III, School of Illumination Science and Engineering, JU.
5. 2009, October 15 & 16; “Visioning Exercise and Poster Designing Workshop for Climate Change Leaders” jointly organized with Lead India, Delhi.
6. 2010, May 19, Climate SMART Workshop, Climate Smart Initiative organized in cooperation with Low Carbon Futures, British Council and My Chlorophyll
7. 2011, February 4, Interactive Workshop on “Climate Smart Initiative@ Rotary: Empowering Citizens” (for school children on how to calculate carbon sequestering capacity of trees), organized in cooperation with Rotary International and My Chlorophyll.

8. 2011, June 1, “Exclusion - Economist's Perspective to revisit Concerns of Development Practitioners” delivered by Dr. Sajjad Zohir, Coordinator, International Growth Centre’s Bangladesh Country Programme, Dhaka, Bangladesh.
9. 2011, September 06, “India- IIASA Programme: Leveraging Collaboration for Scientific Research and Capacity Building” delivered by Dr. Sangeeta Bakshi, Scientist – TIFAC, India – IIASA Programme from DST, Government of India.
10. 2011, December 27, Presentation on the Masters level course in Innovations Sciences in the Technical University of Eindhoven, The Netherlands to interested JU students as well as discussion regarding mutual research interests and potential collaboration both for research and education, including student exchange between the two institutes. The talk was delivered by Prof. Johan Schot, Programme Leader in Innovation Sciences, the Technical University of Eindhoven.
11. 2012, January 9, “Does Competition Improve Public School Efficiency? A Spatial Analysis” & “Opportunities to research on the emerging area of Family Business” delivered by Dr. Kaustav Misra, Assistant Professor, Department of Economics, Saginaw Valley State University, United States.
12. 2012, January 11, as a part of the dissemination programme of GCP-JU, it had supported a UGC-sponsored seminar on “Access to Safe Water: Socio-economic and Technological Challenges in Arsenic Affected Areas of Murshidabad” at Kandi Raj College, Murshidabad. Regarding the same, affiliation of GCP-JU was sought and GCP-JU provided affiliation through knowledge support and subject resource persons to the seminar.
13. 2012, March 2-3, International Conference on ‘Resource and Environmental Economics: A Review of Theory and Practice’ sponsored by Centre for Advanced Studies, Department of Economics, JU in association with Global Change Programme- JU.
14. 2012, May 4, GCP - JU held dissemination workshop on ‘Vulnerability of Home Garden Eco-Systems to Climate Change and Its Impacts on Food Security in South Asia’ (project undertaken with financial assistance from Asia- Pacific Network for Global Change Research) for the villagers at Midnapore in collaboration with Vidyasagar University.
15. 2013, March 5, GCP – JU organized an interactive talk session on ‘Your Dinner Could Save the Planet: How Local Food Systems Can Keep the Poison Out of Your Plate and Address the Current Environmental Crises’ delivered by Aparajita Sengupta, Ph.D, Co-Founder, Smell of the Earth, a community for applicable sustainable measures, at Global Change Programme, Jadavpur University.
16. 2013, July 12, GCP – JU organized a lecture session on “Equity in Climate Change: Is ICAO an ‘appropriate forum’ for negotiations?” delivered by Nupur Chowdhury, Assistant Professor, Jindal Global Law School, O.P. Jindal Global University.
19. How are programme objectives met and learning outcomes monitored?
  - The initial programme objective was to impart knowledge on emerging issues of climate change and beyond. One of the major aims of the Programme was to provide government, industry and the like with an in depth understanding of the ‘global change’ (that goes beyond mere climate change) and its impact on various sectors so as to help them in informed policy making and strategy designing. The Programme has been successfully attaining these objectives by providing knowledge and research support to various projects funded by the Government as well as international research organizations. The programme has also broadened and deepened its research network over the years and can claim its success to a certain extent in institution – building in its own field of activity.

- One of the primary aims was also capacity building through targeted research, short training programmes, teaching programme with appropriate module development, outreach activities and dissemination of information. Development of awareness among the scholars, students and common people regarding climate change and broadly global change was the most expected outcome of this effort. The Programme has been striving to fulfill these objectives through the following steps:
    - a) Internship at the Programme: Graduate/ undergraduate students and enthusiastic young researchers from various parts of India as well as from other countries can apply for paid / unpaid internships to work on various ongoing projects.
    - b) 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 the resources of the Programme to facilitate their work and share their understanding of global change issues with the researchers at this Programme through workshops, seminars and group discussions.
    - c) Post Doctoral Research: Through various project activities Post Doctoral fellowship is helping advanced fellows to pursue research on frontier areas.
    - d) Facilitate student exchange programmes between countries through credit transfer mechanism.
20. Highlight the participation of students and faculty in extension activities.
- One major activity is dissemination of knowledge in the frontier area of research. IPCC dissemination national workshop was held in collaboration with state government in 2007.
- IPCC message was published in various regional languages .
- Collaborative knowledge building projects initiated by many NGOs (e.g Rotary international), industries (power, steel, cement and so on) are facilitated by researchers under this programme.
- British Council Champions have worked extensively on innovative projects under the programme
- Green entrepreneurs have been facilitated with knowledge and mentorship.
- Report for Raj Bhavan was prepared on Climate responsible lifestyle.
21. Give details of “beyond syllabus scholarly activities” of the department.
- The students are provided academic support and skill development training in cooperation with other academic institutes and environmental organizations to be more aware about the climate change related problems and to build awareness among the masses about the same. A few students became local Climate Champions and received sponsorship from British Council to spread awareness among the climate change. Under the guidance of experts, these students have themselves developed a website with interactive software to calculate carbon footprint of each person who visits the site. The site is named as ‘My Chlorophyll’.
  - Students and researchers also participate in some knowledge dissemination programmes to create awareness among the common people. Students opened a stall at Hospitex Health and Hospitality Fair held from 1<sup>st</sup> – 5<sup>th</sup> March 2010 and explained to the visitors on different aspects of climate change especially the health hazards resulting out of climate change problems. These programmes surely boost their confidence and make them shoulder the social responsibilities with and a great zeal and ease.
  - Students and researchers take active part in different awareness building activities supported by the Programme. Their active support was instrumental in organizing the

workshop on ‘Climate Responsible Lifestyle Initiative- 2009’ and ‘Climate SMART Workshop’ in 2010. Another such interactive workshop where the enthusiastic participation of the students translated into group success was titled “Climate Smart Initiative@ Rotary: Empowering Citizens” under ‘Sankarshan: Know Environmental value to Protect Environment’ held on 4<sup>th</sup> February, 2011 at Mohar Kunja, jointly organized by Rotary International, British Council, Global Change Programme-Jadavpur University and My Cholorophyll. This was organized for the school children to show them how to calculate carbon sequestering capacity of trees. All these activities make the students hone their knowledge and skills in the field of climate change, make them more responsible citizens as well as enhance their confidence further.

22. Briefly highlight contributions in generating new knowledge, basic or applied.

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 of 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. Through all these, this Programme attempts to build awareness among the students and the common people to take a holistic and comprehensive approach towards climate change and take up the leadership to bring change through various innovative means to deal with the problems of climate change. On the other hand, it also helps the Government agencies to make an informed choice while formulating the policies related to climate change and other environmental concerns. One of the remarkable successes in this area that the Progarmmme can claim is building greater and more concrete awareness among the government agencies, experts and researchers about the over – estimated success of the technological solutions prescribed for the remediation of the different environmental problems whereas the actual success rate of these mitigation measures are not so impressive due to the absence of social embedding of these measures. Through various dissemination workshops and programmes, GCP-JU actually tries to spread awareness about an alternative development pathway that is more sustainable and comprehensive in dealing with these problems.

23. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC)

*Strengths*

- Early starter on climate change research as university in India.
- Maintaining high standard research outputs over last ten years.
- Already recognized globally and nationally
- Young researchers getting exposure to globally relevant frontier area of research

*Weaknesses*

- Inability to employ full time staff to administer the programme.
- Absence of full time faculty
- No guaranteed funding source to keep researchers for longer time
- Loss of good brains after being trained in the new subject
- Access to rapidly emerging literature

*Opportunities*

- To use the programme as a platform for international research collaboration.
- To attract and house best minds in the theme to interact with university researchers
- To get very good publishable volumes
- To maintain high quality research in emerging area.
- To generate new knowledge in the emerging area

*Challenges*

- Exploring avenues/sources of funds for offering more post-doctoral fellowship
- Attracting a steady fund for training of young researchers in the new field.
- Financial constraints towards involving major academicians from other universities
- Design of interdisciplinary reading materials
- Get a few dedicated faculty members

24. Future plans (in as much detail as possible):

To overcome the weaknesses and act towards implementation of opportunities building on strength of the programme , seek support from ICSSR/UGC/DST/Ministry of Earth Sciences for future expansion of the programme.

## **Jadavpur University Press**

1. Name: JADAVPUR UNIVERSITY PRESS (যাদবপুর বিশ্ববিদ্যালয় প্রকাশনা)
2. Faculty to which attached (if applicable): N.A.
3. Administrative body for the programme (with names of members): 1. Prof. Abhijit Chakrabarti (Vice-Chancellor); 2. Dr Pradip K. Ghosh (Registrar); 3. Sri G.K. Pattnaik (Finance Officer); 4. Dr Abhijit Gupta (Hony. Director, JUP); 5. Dr Rimi B. Chatterjee (Jt. Director, JUP) 6. two EC nominees (vacant)
4. Primary purpose of the programme: The JU Press published its first book in May, 2011. We aim to publish academic books, across subjects, in English and/or Bengali. Our particular interests lie in:
  - Works of a scholarly nature
  - Original research
  - Translations (to or from English and/or Bengali)
  - Reprints of rare texts
  - Reissues of the university's backlist
- We see ourselves as part of an effort to keep in circulation a scholarly heritage. This includes a focus on maintaining a standard of scholarship, and is mediated by informed intervention on our part.
5. Year of establishment: 2011
6. Funding agency/agencies: University Grants Commission, India; Jadavpur University
7. Does the programme have separate sections/different wings under it (for example, does it have separate committees or funds for research, teaching and outreach)? If so, please give details:
8. Activities undertaken by this programme, during the period 2008-2013: See Appendix
10. Collaboration with other institutions/centres/agencies/etc, if any: Universita degli Studi di Napoli' Orientale; Centre for Counselling Services and Studies and Studies in Self-Development, Jadavpur University; Loreto House College, Kolkata; Jawaharlal Nehru University (forthcoming)
11. Consultancy conducted by the programme and funds generated, if any: N.A.
12. Publications generated by the programme, if any: See Appendix
13. Any other highlights you would like to mention: See Appendix
14. Future plans:

### Regional Centre of National Afforestation & Eco-Development Board

1. Name: REGIONAL CENTRE (RC) NATIONAL AFFORESTATION & ECO-DEVELOPMENT BOARD (NAEB) MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA
2. Year of establishment  
1989 as ERC:NWDB and reformed as RC:NAEB in 1992
3. Faculty to which attached: Other Special Programmes, FISLM
4. Names of programmes offered :
  - Capacity building of Forest Officials and Forest fringe dwellers by organizing trainings and workshops
5. Interdisciplinary programmes being conducted and other departments involved:
  - School of Water Resources Engineering, JU
  - Department of Environment & Forests, Govt. of Bihar, Jharkhand, Sikkim, West Bengal and Andaman & Nicobar Islands
  - Other Development oriented department of State and Central Govt. for convergence programme.
6. Courses in collaboration with other universities, industries, foreign institutions etc: NIL
7. Participation of the department in courses offered by other departments : Ph.D. programme of School of Water Resources Engineering, JU.
8. Number of teaching posts sanctioned, filled and actual (Professor / Associate Professor / Asst. Professor / other):  
The Centre is headed by a Coordinator (Prof. Asis Mazumdar) which is a honorary post and the programme implementation team is comprised of Research Scientists and Research Assistants.  
Sr. Research Scientists-3, Research Scientists-1, Jr. Research Scientists-1, Research Assistants-2
9. Faculty profile with name, qualification, designation area of specialization, experience and research under guidance:

Profiles of Scientists are

| Name                       | Qualification  | Designation            | Specialization               | No. of years of Experience |
|----------------------------|--|------------------------|------------------------------|----------------------------|
| Sri M. Chatterjee          | B.Sc., Ex.DCF, Land Use & Planning (Certificate Course), Japan | Sr. Research Scientist | Forests & Livelihood         | 36yrs+22yrs                |
| Sri S. Das, IFS (Retd.)    | B.Sc., Ex.DCF, Govt. of West Bengal                            | Sr. Research Scientist | Forests & Livelihood         | 36yrs+20yrs                |
| Sri S. Bala                | B.E.(Chem.), PGDFM(IIFM, Bhopal), Ph.D. (Pursuing)             | Sr. Research Scientist | Natural Resources Management | 9yrs                       |
| Ms. Anindita Bhattacharyya | M.Sc.(Env.Sc.), MRM (IIFM, Bhopal), Ph.D. (Pursuing)           | Research Scientist     | Natural Resources Management | 8yrs                       |
| Sri S. Biswas              | M.Sc.(Botany), Ph.D. (Pursuing)                                | Jr. Research Scientist | Ecology & Environment        | 6yrs                       |

10. Number of academic support staff (technical and administrative staff – sanctioned, filed and actual: 01 (Coordinator) + 03 (Sr. Scientists) + 01 (Research Scientist)+ 01 (Jr. Research Scientist) + 02 (Research Assistant)+06 (Support Staff) + 03 (Associated faculty members)
11. Research thrust areas as recognized by major funding agencies:
  - Afforestation & Eco-development



- Joint Forest Management
- Forest Development Agency
- Greening India
- Small & Micro Forest Enterprise
- Soil Moisture Conservation
- Indigenous Technologies
- Capacity Building & Forest Conservation
- Wasteland Development & Biodiversity Conservation
- Soil Water Plant Relationship
- Impact of Forested Watershed on Stream Flow and Water Quality
- Watershed Management
- Natural Resource Management
- Clean Development Mechanism
- Carbon Sequestration
- REDD+

The main funding agency is National Afforestation & Eco-Development Board, MoEF, Govt. of India.

The other funding agencies are: Department of Science & Technology, Govt. of India; Department of Environment & Forests, Govt. of West Bengal; Department of Environment & Forests, Govt. of Odisha and others.

12. Inter-institutional collaborative projects and associated grants received:

a) National collaboration

“Landscape survey and developing Micro plan for enhancement of forest quality and improvement of ecosystem services in the identified district of Orissa” – In collaboration with Indian Institute of Forest Management, Bhopal.

b) International collaboration-

Departmental projects funded by DST-FIST, UGC-SAB/CAB, DPF, DBT, ICSSR, AICTE, etc.; total grants received (Give details.) –

List of Research Project funded by NAEB, MoEF, GoI

| 2008-09 | Project title   | Rs. Lakhs |
|---------|---|-----------|
| i)      | Study on simulation of carbon sequestered fast growing tree species and development of management plan for a participatory Forest Management Area of West Bengal to adopt clean development mechanism in West Bengal. | 2.50      |
| ii)     | Study on simulation of carbon sequestered fast growing tree species and development of management plan for a participatory Forest Management Area of Jharkhand to adopt clean development mechanism in Jharkhand.     | 2.50      |
| iii)    | Study on quantitative inventory of Sikkim based NTFP that have potential market in India-through application GIS in Sikkim  | 2.50      |
| iv)     | Study of elicit the status and resources of the area in promoting SMFEs in West Bengal  | 1.00      |
| v)      | Study of elicit the status and resources of the area in promoting SMFEs in Jharkhand  | 1.00      |
| vi)     | Study to conduct business development strategy (BDIS) & investigation to ascertain viable activity and a required market linkage for the same in Jharkhand.   | 1.00      |
| vii)    | Study to conduct business development strategy (BDIS) & investigation to ascertain viable activity and a required market linkage for the same in West Bengal.   | 1.00      |
| viii)   | Study on phyto-chemical characterization and evaluation of the medicinal plants found in Jharkhand that are used by tribal women for mother and child health.   | 2.50      |
| ix)     | Study for measurement of carbon sequestration by some plants of A & N Island  | 2.50      |
| x)      | Understanding and documentation of indigenous watershed / forest management technique practiced by tribes in the Tropical Rain Forest of A & N Island.  | 2.50      |
|         | Total   | 19.00     |
| 2009-10 |   |           |
| i.      | Study of Watershed development and management through rain water harvesting and artificial recharge of ground water and agro-forestry in parts of Dhalbhum in Jharkhand.  | 2.50      |

|         |   |       |
|---------|---|-------|
| ii.     | Study on soil, carbon and nutrient accumulation under forest plantations in State of Jharkhand.   | 2.50  |
| iii.    | Study on assessment of the impact of forestry plantation on surface runoff and water quality related to maintenance of forestry hydrology in the State of Sikkim.           | 2.50  |
| iv.     | Study to prepare product oriented Business Development Strategy (BDS with required credit facility and market linkage in West Bengal.                                       | 2.50  |
| v.      | Study to prepare product oriented Business Development Strategy (BDS with required credit facility and market linkage in Jharkhand.   | 2.50  |
| vi.     | Study to identify and scientifically establish indigenous Technical Knowledge (ITK) related to Sustainable Production System in the State of Jharkhand.                     | 2.50  |
| vii.    | Study to identify and scientifically establish indigenous Technical Knowledge (ITK) related to Sustainable Production System in the State of West Bengal.                   | 2.50  |
| viii.   | Study on potential of carbon sequestration by involving JFMC members to get carbon credit in State of West Bengal.  | 2.50  |
| ix.     | Study on potential of carbon sequestration by involving JFMC members to get carbon credit in State of Jharkhand.  | 2.50  |
| x.      | Study on Ethno Botanical survey of plant used for the treatment of various diseases Saraikela in Jharkhand.   | 2.50  |
| xi.     | Study on Ethno Botanical survey of plant used for the treatment of various diseases Banka in Bihar.   | 2.50  |
| xii.    | Study on quantifying carbon footprint in forest areas in the State of Jharkhand.  | 2.50  |
| xiii.   | Study on quantifying carbon footprint in forest areas in the State of West Bengal.  | 2.50  |
|         | Total   | 32.50 |
| 2010-11 |   |       |
| i.      | Study on impact assessment of SMFEs by developing criteria and indicators and possibility of its replication in other areas in the State of Jharkhand.                      | 3.00  |
| ii.     | Study on women empowerment in FDAs through NAP activities in the State of West Bengal.  | 3.00  |
| iii.    | Study on data base development of NAP progress and its uploading in the website in the States of Bihar, Jharkhand, Sikkim and West Bengal.                                  | 3.00  |
| iv.     | Meta evaluation of different evaluation programme on NAP implemented through FDAs in India.   | 2.50  |
| v.      | Measurement of carbon sequestration by some agro forestry plant species in West Bengal.   | 2.50  |
|         | Total   | 14.00 |
| 2011-12 |   |       |
| i.      | Study of Forest Policies, strategies and Silviculture practices to reduce vulnerability and enhance resilience of forest ecosystems to projected climate change in Andaman. | 3.00  |
| ii.     | Study on JFMCs for their improvement in functioning to take more responsibilities in forest conservation and enhancement in the State of West Bengal.                       | 3.00  |
| iii.    | Collection and consolidation of JFMC related data under NAP in Bihar, Jharkhand, Sikkim and West Bengal.  | 3.00  |
|         | Total   | 9.00  |
| 2012-13 |   |       |
| i.      | Study of mapping of forest hydrology through application of GIS in Andaman.   | 4.00  |
| ii.     | Study on assets created under NAP by FDAs in the State of Bihar.  | 4.00  |
| iii.    | Study on assets created under NAP by FDAs in the State of Jharkhand.  | 4.00  |
| iv.     | Study on the scope of NTFP certification among the established SMFE.  | 4.00  |
| v.      | Study on contribution of FDA plantations on livelihood improvement in the state of Bihar.   | 4.00  |
|         | Total   | 20.00 |

13. Research faculty / centre run by the Dept. / school / centre which has: NA

- State recognition
- National recognition
- International recognition

14. Special research laboratories sponsored by / created by industry or corporate bodies:

Business Incubation Centre – funded by Ministry of MSME, Govt. of India to incubate new ideas and ultimately promoting Entrepreneurship.

15. Code of ethics for research followed by the department: All approved researched studies are discussed with the respective state forest department for selection of study area. Proper research methodology and statistical analysis followed for the research.
16. Present details of departmental infrastructural facilities with regard to
  - a) Library- Yes
  - b) Internet facilities for staff and students- Yes
  - c) Total number of class rooms- NA
  - d) Class rooms with ICT faculty- NA
  - e) Research laboratories- Conduct field based research and also have a research plot to measure carbon sequestration by tree species.
17. List of doctoral, post-doctoral students and Research Associates -
  - a) From the host institution / universities
 

Doctoral students

    - i. Sanjay Bala
    - ii. Anindita Bhattacharyya
    - iii. Soumyajit Biswas
  - b) From other institution / universities
18. Was any need assessment exercise undertaken before the development of new programme(s). If so, highlight the methodology. –
  - A need assessment is made to propose a new programme in the advisory management committee meeting
  - Programme approve by the AMC members is send to the ministry for approval
  - Ministry sanctioned the programmes based on the proposal and need of the hour felt by the ministry.
  - The area of implementation is also passes through the respective forest department.
19. Does the programme obtain feedback from
  - a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
  - b. Student on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
  - c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

The Centre collects feedback from the participants of the each training & workshop in a prescribed format and also from the respective forest department. Regular upgradation and improvement is made based on the feedback.
20. Give details of “beyond syllabus scholarly activities” of the department. NA
 

All the activities of the Centre are beyond any class syllabus.
21. Briefly highlight contributions in generating new knowledge, basic or applied.
  - The Centre has established first Small & Micro Forest Enterprise (SMFE) in India and replicated the same in several places.
  - Disseminating knowledge regarding the latest forest management issues and livelihood promotion of forest fringe dwellers.
  - Creates mass awareness on safeguarding environment by celebrating world forestry day, Environment day, Habitat day etc.
22. Detail five major Strengths, Weaknesses, Opportunities, and Challenges (SWOC)
 

*Strengths*

  - Strong Leadership
  - Faculty Backup being located within University
  - Dedicated Human Resource with diverse background
  - State of the art Infrastructure Facility

- Modern scientific instruments

#### *Weaknesses*

- Urge to take up too many challenges / new initiative which may lead to delay in completion of work.
- Sometimes availability of faculty / resource persons does not synchronize with work schedule.
- Pay package and uncertain tenure not attractive to young qualified persons to join/retain.
- Inability to involve SFDs effectively to the desired extent

#### *Opportunities*

- Availability of external laboratory
- Scientific and social Networking with Grass Root Level Organization
- Renowned neighborhood institute like Indian Association for Cultivation of Science and Indian Institute of Chemical Biology
- Advantage of Strategic location for eastern and north eastern states
- To work collectively with other RCs on relevant national issues to generate national report.
- To undertake research / consultancy projects sponsored by other Govt. and Non Govt. agencies.

#### *Threats*

- Indifference and non-committal attitude of SFDs towards implementation of the some programmes.
- Some of the work areas are badly affected by insurgency
- Non fulfillment of the expectation of the JFMC members affects the sustainability issue in absence of the follow up programme.
- Uncertainty in the timely sanction and release of fund.

#### 23. Future plans of the department (in as much detail as possible)

- Visibility issues
- Preparation of Reports on Pan India Scenario which will help in decision making process of the Ministry as well as policy inputs for future planning purposes
- Sustainable work through subsequent programmes
- Ecosystem services
- The forest has a very important role to play in providing ecosystem services apart from Timber, fuelwood, fodder and NTFPs. Our effort will be on Assessment, Quantification and valuation of ecosystem services provided by the forest.
- Five year planning programme, this may help in concrete outcome.
- Permanent post (in nature) for scientists/researcher with having at least 5 year tenure.

## Special Education & HEPSN Cell

Objective: The Special Education & HEPSN Cell of Jadavpur University was established on December 2004 with the help of UGC-UPE-I scheme. At first the Cell tried to help the differently abled students of Jadavpur University with some Braille books and audio cassettes based on their class-note recordings. After that grant period, it was funded by the University's own nominal budget. Since April 2012, it is sponsored by the fund of UGC-UPE-2<sup>nd</sup> phase.

The main objective of Special Education & HEPSN Cell is to outstretch the Social Service among the students with special need as well as to the human society on behalf of Jadavpur University. The service from HEPSN Cell is mainly operated through two wings, Research work and Special Support to the students of special need for higher education. To encourage higher education among the students with special needs, advance amenities in the field of technology is essential. The Cell ensures the bridge way between the students with different abilities and their aim of higher education with the support of technology. The Cell is providing the guidance and support which will help the students to upgrade them as a self dependent individual.

### Members

All the Members of the Academic Committee of the Cell are engaged on honorary basis.

- 1) Vice-Chancellor of the University (Chairperson).
- 2) Pro-Vice-Chancellor of the University.
- 3) Dr. Dipanwita Ghosh (Coordinator), Associate Professor, Bengali Dept, Jadavpur University.
- 4) Dr. Ruby Sain (Academic Coordinator), Associate Professor, Sociology Dept, Jadavpur University.
- 5) Dr. Muktipada Sinha Associate Professor, Education Dept, Jadavpur University.
- 6) Sri Samir Chattopadhyay, Associate Professor, Education Dept, Jadavpur University.
- 7) Sri Manojit Mondal Assistant Professor, English Dept, Jadavpur University.
- 8) Dr. Bishnupada Nanda, Associate Professor, Education Dept, Jadavpur University.  
Professor Rita Sinha, Associate Professor, Education Dept, University of Calcutta.

### Project Personnel

The following Project Personnel are engaged on temporary basis contractual service.

- 1) Mr. Suryanu Das Gupta (Office Supervisor), B.Sc, MBA.
- 2) Mr. Suvasish Dhar (Project Assistant Technical), B.Com.
- 3) Sm. Ananya Mukherjee (Field Assistant), M.A. in Sociology
- 4) Mr. Abhijit Banerjee (Field Assistant), M.A. in Bengali.
- 5) Sm. Rima Ghosh (Field Assistant), M.A. in Bengali.
- 6) Sm. Dipamala Sanyal (Book reader), B.A.
- 7) Sm. Paramita Somadder (Book reader), M.A. in Political Science.
- 8) Mr. Manoj Karmakar (Sound Editor), B.Com.

### Special support service

A) *Talking Book Library*: The Primary Object of this project is to provide equal educational opportunities to the students with different abilities especially the Visually Impaired in higher education. The latest technique to provide reading materials to visually impaired students is Digital Book or 'Talking Book'. The Cell has developed a Talking Book Library for the students coming from the Department of Bengali, International Relations and History, both in under-graduate & post-graduate level courses.

Method: At present, two Book-readers (both are associated with All India Radio, Kolkata) and one Voice Editor have been appointed for the preparation of talking books. The book readers first record the book in MP3 format through voice recorder. Then the voice editor made the 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. In last 2 years the Cell has produced a total of 117 CDs and DVDs as Talking Book. Now we are using the Daisy Software technology in audio books for the visually impaired students.

Accession of Total Talking Books: Cassette: 720, CD/DVD: 122

B) *Computer Training Programme*: The Cell has started computer training program (Foundation Course on Computer Application, passed by Executive Council of Jadavpur University) for the students coming from socially or economically backward groups as well as for the students with special needs. The course includes the fundamentals in computer that is, MS Word, Excel, PowerPoint and Internet. One Computer Trainer has been engaged for the course into two batches per semester.

The Cell has 5 independent computers that support JAWS (Screen Readable Software) to conduct the computer training program specially for the visually impaired students, in 4:1 (student: teacher) ratio. We strongly believe that, a minimum computer literacy will enrich them with enough confidence and to be self sufficient for their examination through computers. It will help them in job sectors also. The Faculty of the computer course for the visually impaired candidates is himself a person with visual impairment.

Total No. of passed candidates in CFCA course: 272

Total No. of passed candidates in CFCA-VH-I course (for visually impaired only): 32

Total No. of passed candidates in CFCA-VH-II course (for visually impaired only): 12

#### Research Work of the Cell

Two research projects are carried out at the Cell under two different research guides that along with its academic approach also caters to the needs of the students. Three Field Assistants are involved with these two projects.

1) *Preparation of Critical Directory on Disabilities*: It started from 2010 under the supervision of Dr. Dipanwita Ghosh, the Coordinator of the Cell. The main objective of the project is to prepare and maintain a directory that will contain up-to-date database of the students with special needs and the Teaching and Non-teaching Staffs 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 staffs with different abilities. The work of the project is therefore divided into three thrust areas.

2) *Social Justice and Empowerment for the Differently Abled Persons*: It started from December 2012 under the supervision of Dr. Ruby Sain of the Dept. of Sociology. So far inclusive growth is considered as a desirable aspect of development the major objectives are to find out the measures and programs in terms of how far they are socially inclusive as the concept of 'social inclusion' is loaded with a sense of social justice and notion of morality; to grow awareness among the policy makers about the legitimate share of the exclusive groups in the developmental gains of the country; remove the disparities and inequalities based on class, gender, caste, race, physical capabilities etc; make

suggestions for the formulation of national policies with expansion of socially constructed positions; general wellbeing of the society and finally national integration to the stability of the democratic polity. Both Qualitative and Quantitative research method were applied in this project.

Self-financed PG diploma Course: The Cell started a one year post graduate diploma course in “Guidance, Psychological Counselling & Family Therapy” (passed by Executive Council of Jadavpur University) on and from 2<sup>nd</sup> May 2013, which may be a good prospect for the students in the field of counselling. Total student strength of this course is 30. A dozen of Resource persons and Faculties from different universities and some Psychiatrists as well as Psychological Counsellors are already appointed for this course.

#### Publications:

- a) The Cell has published the 1<sup>st</sup> issue of Newsletter on March 2013, with a brief report of our activities along with some case studies of the Differently Abled students of Jadavpur University. The 2<sup>nd</sup> issue of the Newsletter has been published on September 2013.
- b) The Cell has published the 1<sup>st</sup> volume of International Research Journal with ISSN 2321-9254 on Persons with Special Needs & Rehabilitation Management in March 2013.
- c) The Seminar Proceedings of the (1<sup>st</sup> & 2<sup>nd</sup> volume) published in November 2013.

#### Seminars:

- a) We have already organized a Personality Grooming Workshop named ‘Alor Thikana’ on 23<sup>rd</sup>- 26<sup>th</sup> April 2010 and ;
- b) Four UGC sponsored Seminars which includes a National seminar also. The subjects of the seminar were:
  - i) Perspectives on Disability and Educational Rights of Disabled People in Present Day Context on 8<sup>th</sup>- 9<sup>th</sup> September 2011.
  - ii) The Role of Special Educators and Special Education in Higher Studies on 20<sup>th</sup>- 21<sup>st</sup> March 2012.
  - iii) Social Justice & Empowerment for The Persons with Different Abilities’ on 25<sup>th</sup> March, 2013.
  - iv) Counselling and Rehabilitation: Reaching the Unreached on 12-13<sup>th</sup> August 2013.

#### Plans for future publications

- i) The Cell has planned to publish two books after the completion of the two respective research works of Dr. Dipanwita Ghosh and Dr. Rubi Sain.
- ii) A special collection of essays and articles on the topic of ‘Differently Abled Persons in the Tagore Literature’ will be edited and published under the supervision of Dr. Dipanwita Ghosh & Dr. Bishnupada Nanda expected on February 2014.
- iii) The Cell is also looking forward to publish a book on basis of the database oriented research work (dissertation) by the students of post graduate diploma course. All the books will be published with ISBN and the Journals with ISSN.

In addition to this, the Cell will continue the Computer Course, the PG diploma course and the Talking Book Library, through out the tenure of UPE-II and further.

We are confident enough to complete the research work and the publications within the completion of the 1<sup>st</sup> phase of UPE-II (March 2014).

## **The Media Lab**

1. Name of programme: The Media Lab
2. Faculty to which attached (if applicable): Department of Film Studies, Arts
3. Administrative body for the programme (with names of members): Dean, Faculty of Arts (Chairperson), Prof. Moinak Biswas (Coordinator), Dr. Madhuj Mukherjee (Jt. Coordinator), Prof. Amlan Dasgupta, Prof. Samita Sen, Prof. Swapan Chakravorty, Prof. Gautam Gupta, Prof. Partha Pratim Biswas, Prof. Samar Bhattacharya, Dr. Samantak Das, Dr. Pradip Kr Ghosh (Registrar), Sri Gourkrishna Pattanayak (Finance Officer)
4. Primary purpose of the programme: To host archiving and training programmes related to digital media practice and to explore the new pedagogic possibilities opened up by Digital Humanities. Also to work as a resource centre for historical research in Indian cinema and production facility.
5. Year of establishment: 2008
6. Funding agency/agencies: Navajbai Ratan Tata Trust, Mumbai and Jadavpur University
7. Does the programme have separate sections/different wings under it (for example, does it have separate committees or funds for research, teaching and outreach)? If so, please give details: The Media Lab is run by a Coordinator and Jt. Coordinator in consultation with the Administrative Committee formed by the University. Between 2008 and 2013, it also had a Steering Committee to advise on policy from time to time. It has a separate bank account, a 2,700 sq ft space on the 3<sup>rd</sup> floor of the Gandhi Bhavan. It received Rs. 1,02,25,000 from Navajbai Ratan Tata Trust, Mumbai, and Rs. 1,10,38,000 from Jadavpur University for research, archiving and outreach teaching programmes conducted in 2 phases.
8. Activities undertaken by this programme, during the period 2008-2013: The activities consist primarily of a) creating digital databases of films, periodicals, articles, posters, booklets, etc. related to the history of Indian cinema; b) organizing workshops and training programmes in digital media practices among Jadavpur students and participants from outside. The outreach programme involves visits to undergraduate colleges in West Bengal in order to hold workshops with students on creative use of digital media; c) creating a resource centre of books, periodicals and films as well as digital databases for the use of film and media scholars, d) offering a fully equipped professional facility for shooting, editing and sound design (for an outline of the activities please visit [www.medialabju.org](http://www.medialabju.org)).
9. Extension activities of the programme, if any: The Media Lab has conducted a series of workshops with teachers in the area of film, media and communication since 2008, which has led to a thorough reform of the MA and undergraduate (ED) syllabi in the Department of Film Studies at Jadavpur. The ideas generated in the workshops have also helped other institutions to revise their syllabi.
10. Collaboration with other institutions/centres/agencies/etc, if any: Collaboration with British Council, Calcutta, Centre for Social Sciences, Calcutta, Indian Foundation for the Arts, Bangalore, Centre for the Study of Developing Societies, Delhi, and various undergraduate colleges in West Bengal, for holding joint workshops, training programmes and conferences.
11. Consultancy conducted by the programme and funds generated, if any: The Lab lends its expertise and its technical facilities to programmes in the University and other educational institutions to create media presentations, short films, etc. It has started generating revenue from these activities.
12. Publications generated by the programme, if any: The Media Lab hosts the annual publication of the Department, the Journal of the Moving Image, which is widely read and referenced ([www.jmionline.org](http://www.jmionline.org)).



13. Any other highlights you would like to mention: The 'Research Councils UK' Report 'Arts and Humanities Research Mapping, India', published in 2010, lists The Media Lab and the Department of Film Studies as 'Centre of Excellence'.

14. Future plans: The Lab plans to convert itself into an advanced centre for independent digital media practice, a fast growing area that needs leadership and critical intervention. It will enhance its capacities as a centre for research and pedagogy in the emerging area of Digital Humanities, working at the intersection of open knowledge systems, big data- based cultural analytics and creative practices.

## **Project E.Q.U.A.L.**

1. Name of programme: E.Q.U.A.L. (Enhancing Quality, Access and Governance in Undergraduate Education in India) European Union International Collaborative Project. Funding: Euro 1,000,000 approx.
2. Faculty to which attached (if applicable): University as a whole
3. Administrative body for the programme (with names of members): Core Committee:  
Faculty Co-ordinator: Professor Supriya Chaudhuri (Emeritus)  
Joint Faculty Coordinator: Professor Sugata Hazra  
Vice Chancellor, Professor Abhijit Chakrabarti  
Joint Registrar, Shri Sanjay Gopal Sarkar  
Professor Asis Mazumdar  
Professor Samar Bhattacharya  
Professor Pulak Sengupta  
Professor Sudipto De  
Professor Moinak Biswas  
Professor Amlan Das Gupta  
Dr Matangini Chattopadhyay
4. Primary purpose of the programme: To establish inter-university co-operative programmes for enhancing the quality of UG education in India, through development of technology-enhanced learning tools and interactive, interdisciplinary curricula
5. Year of establishment: 2013
6. Funding agency/agencies: European Union
7. Does the programme have separate sections/different wings under it (for example, does it have separate committees or funds for research, teaching and outreach)? If so, please give details: The major centre to be established at Jadavpur University under the programme is the Communications and Technology Research and Development Unit with three Project Staff
8. Activities undertaken by this programme, during the period 2008-2013: Established in 2013. Planning Meetings completed with national and international partners and MHRD and Planning Commission presence.
9. Extension activities of the programme, if any: Extension is the major focus of the EQUAL Programme
10. Collaboration with other institutions/centres/agencies/etc, if any: This is a consortium involving six universities, Jadavpur University, University of Hyderabad, Ambedkar University Delhi, Shiv Nadar University, King's College London and University of Bologna Italy, coordinated by the British Council India.
11. Consultancy conducted by the programme and funds generated, if any: Not yet initiated but a possible outcome.
12. Publications generated by the programme, if any: Expected Outcomes are both Print and Digital
13. Any other highlights you would like to mention: This programme constitutes a major intervention to improve UG education in India through an international consortium. It has EU, MHRD and Planning Commission support.
14. Future plans: To create viable technological tools for better quality, access and governance of UG education in India

### **Bichitra**

1. Name: Bichitra: Tagore Online Electronic Variorum  
The database may be accessed at <http://bichitra.jdvu.ac.in/>
2. Faculty to which attached (if applicable): None (at that time)
3. Administrative body for the programme (with names of members):
  1. Vice-Chancellor, Jadavpur University
  2. Vice-Chancellor, Jadavpur University
  3. Professor Sankha Ghosh (MoC Nominee)
  4. Professor Udaya Narayan Singh
  5. Professor Swapan Majumdar
  6. Professor Swapan Chakravorty
  7. Professor Pinakesh Sarkar
  8. Professor Uma Dasgupta (MoC Nominee)
  9. Dr Kumkum Bhattacharya
  10. Professor Amlan Das Gupta, Director, SCTR
  11. Professor Sukanta Chaudhuri, Principal Investigator
  12. Professor Subha Chakraborty Dasgupta (Executive Head of Project)
  13. Dr Samantak Das (Executive Head of Project)
  14. Mr K K Banerjee (MoC Nominee)
4. Primary purpose of the programme: The School has undertaken a major project to create a complete online variorum edition of all the works of Rabindranath Tagore in English and Bengali, including all significant variants and revisions in both manuscript and print. The project is funded by the Ministry of Culture, Government of India under its programme for Rabindranath's 150th project partner, and is making available all the relevant material in its collections. Rabindra-Bhavana, Visva-Bharati, is a major partner.
5. Year of establishment: Creation 2011-2013;  
Inauguration by President of India on 5 May 2013
6. Funding agency/agencies: Ministry of Culture, Government of India
7. Does the programme have separate sections/different wings under it (for example, does it have separate committees or funds for research, teaching and outreach)? If so, please give details: NA
8. Activities undertaken by this programme, during the period 2008-2013: NA
9. Extension activities of the programme, if any: NA
10. Collaboration with other institutions/centres/agencies/etc, if any:  
Principal project partner: Rabindra-Bhavana, Visva-Bharati, Santiniketan  
Other partners and collaborators (in alphabetical order)  
Bangiya Sahitya Parishat  
C-DAC  
Calcutta University, Central Library  
Centre for Studies in Social Sciences, Calcutta  
Harvard University, Houghton Library  
Jadavpur University, Central Library  
Jadavpur University, Centre for Distributed Computing  
Jadavpur University, School of Education Technology  
London University, Senate House Library  
National Informatics Centre (NIC)  
National Library, Kolkata  
Raja Rammohan Roy Library Foundation
11. Consultancy conducted by the programme and funds generated, if any:

12. Publications generated by the programme, if any: Proposal received from Springer Verlag for collection of essays on the Bichitra project. Work in progress.

13. Any other highlights you would like to mention: Besides its importance as a treasure-house of Tagore material, Bichitra offers a major new technological model for electronic archiving, editing and textual processing. It incorporates some pioneering programs for linguistic and textual computing, all developed under the aegis of the project with advice and inputs from members of the Faculty of Engineering and Technology, Jadavpur University. As these programs are Unicode (UTF-8) compatible, they can be adapted for use with any language or script in the world.

14. Future plans: Plans for augmentation and upgradation are underway.

## Digital Humanities

1. Name: Post Graduate Diploma in Digital Humanities and Cultural Informatics
2. Faculty to which attached (if applicable): FISLM
3. Administrative body for the programme (with names of members):  
The Vice-Chancellor, Chairperson  
Prof. Sukanta Chaudhuri (Professor Emeritus, JU)  
Prof. Amlan Dasgupta (Coordinator; Director, SCTR)  
Dr Abhijit Gupta (Jt. Director, SCTR)  
Dr Moinak Biswas (Jt.Coordinator; Professor, Film Studies)  
Prof. Swapan Chakravorty  
Dr Samantak Das
4. Primary purpose of the programme: The PG Diploma Course is designed to acquaint students with developments in digital humanities and cultural informatics within the larger context of the application of computational tools to humanities research. The course will serve:
  - (a) to orient students in the ways in which the study of the humanities today has been transformed by the inevitable presence of digital technology, to the extent that the very understanding of the method and aims of the “humanities” has to come to terms with new technological and economic compulsions. This critical and reflective component of digital humanities lies at the heart of the proposed course. This would provide theoretical insights into the most important changes taking place in the very definition and scope of the humanities as digital humanities brings the arts and technology into integration.
  - (b) to familiarize students with the basic rationale, objectives, possibilities and processes of digital record-keeping and data processing; and engaging with new forms of textuality.
  - (c) to develop practical skills in electronic archiving, processing, editing and on-screen presentation of cultural material on a variety of platforms and for diverse communities of users;
  - (d) to train students to apply principles of textual, editorial and communication theory to technical situations, so that they can produce high quality work in a digital environment.
5. Year of establishment: 2013
6. Funding agency/agencies: UGC under Innovative Programmes Scheme
7. Does the programme have separate sections/different wings under it (for example, does it have separate committees or funds for research, teaching and outreach)? If so, please give details: NA
8. Activities undertaken by this programme, during the period 2008-2013: Classes commenced in 2013
9. Extension activities of the programme, if any: NA
10. Collaboration with other institutions/centres/agencies/etc, if any:  
Internship programme with Indira Gandhi National Council for the Arts, New Delhi
11. Consultancy conducted by the programme and funds generated, if any: NA
12. Publications generated by the programme, if any: NA
13. Any other highlights you would like to mention: First course in subject in the country
14. Future plans: Collaborations with international centres of Digital Humanities teaching and research

## UPE II

1. Name of programme: UPE II, University with Potential for Excellence – Phase II
2. Faculty to which attached (if applicable): University as a whole
3. Administrative body for the programme:

### Ex-Officio Members:

Prof. Abhijit Chakrabarti, Vice Chancellor, Chairman  
Prof Siddhartha Datta, Pro Vice Chancellor  
Prof. Rajat Acharyya, Dean Arts  
Prof. Sivaji Bandyopadhyay, Dean Engineering  
Prof. Subrata Mukhopadhyay, Dean Science  
Prof. Asis Mazumder, Dean Interdisciplinary Studies  
Dr. Pradip Kumar Ghosh, Registrar, Convenor  
Sri Gour Krishna Pattanayak, Finance Officer  
Sri Tapan Ghatak, Chief University Engineer  
Dr. Partha Pratim Lahiri, Deputy Registrar  
Sri Debasish Pal, Deputy Finance Officer  
Sri Manilal Murmu, Chief Librarian

### Coordinator:

Prof Subhash Chandra Bhattacharyya (Chemistry), Submission stage and up to April, 2012

Prof Manoj Mitra (Metallurgy and Material Science Engg), May 2012 – Oct 2013

Prof Dipankar Sanyal (Mechanical Engineering) from November 2013

Jt Coordinator: Prof Swarnendu Sen (Mechanical Engineering) from November 2013

### Group Leaders:

#### Focussed Area 1: Nanoscience & Technology

Prof Manoj Mitra (Metallurgy and Material Science Engg), Prof. Kalyan Kumar Chattopadhyay (Physics), Prof. Gopesh Chandra Das (Metallurgy and Material Science Engg)

#### Focussed Area 2: Cognitive Science

Prof Amit Konar (Electronics Engineering) & Prof Lopamudra Chowdhury (Philosophy)

#### HDA (Hollistic Development Area) 1: Cultural Resources & Social Science

Prof. Nilanjana Gupta (English), Prof Ajitava Raychaudhuri (Economics), Prof Amlan Dasgupta (English)

#### HDA 2: Mobile & Innovative Computing

Prof Samiran Chattopadhyay (Information Technology), Prof Sarmistha Neogi (Computer Sc Engg)

#### HDA 3: Digital Library & Web-based Material

Prof Rajib Bandyopadhyay (Instrumentation & Electronics), Prof Udayan Bhattacharya (Library & Information Science), Dr. Matangini Chattopadhyay,

#### HDA 4: Energy Environment & Climate Change

Prof Joyashree Roy (Economics), Prof Pulak Sengupta (Geology), Prof Anupam Deb Sarkar (Civil)

#### HDA 5: Natural Products & Drug Delivery – Prof. Tuhinadri Sen (Pharmaceutical Technology)

HDA 6: Advanced Functional Compound – Prof Subhash Chandra Bhattacharyya (Chemistry),

Deformation Characterization – Prof Sanjib Kumar Acharyya (Mechanical Engineering),

Systems and Devices – Dr. Amitava Chatterjee (Electrical Engineering) till  
March 31, 2013

HDA 7: HEPSN – Dr Dipanwita Ghosh (Bengali)

4. Primary purpose of the programme: Achieving excellence through focused interdisciplinary research targeting holistic development

5. Year of establishment: April 2012

6. Funding agency/agencies: UGC, India

7. Does the programme have separate sections/different wings under it (for example, does it have separate committees or funds for research, teaching and outreach)? If so, please give details:

There is no separate wing at the committee level. However the different focused area, holistic development groups and infrastructure development have separate budgetary allocations.

8. Activities undertaken by this programme, during the period 2012-2013:

Infrastructure development, research along with social and cultural outreach activities as apparent from the two focused areas and seven holistic development areas listed under Group Leaders under Item 3 above.

9. Extension activities of the programme, if any: Reaching the un-reached is a key activity of HEPSN cell

10. Collaboration with other institutions/centres/agencies/etc, if any: Not applicable

11. Consultancy conducted by the programme and funds generated, if any: Not applicable

12. Publications generated by the programme, if any:

The improved publication profile of Jadavpur University is obviously a combined outcome of funding from many sources and the dedication of the faculty members and the scholars associated with several concurrent programmes. Based on the Scopus search, the year wise number of publications from Jadavpur University is as follows.

|        |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Year   | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| Number | 319  | 311  | 313  | 422  | 488  | 589  | 686  | 792  | 905  | 1039 | 1130 | 1321 | 1367 |

13. Any other highlights you would like to mention: A 11-year H-index of the university rose from 43 in the period 1996-2006 to 72 in the period 2000-2010.

14. Future plans: Networking among the ongoing programmes to promote disruptive and sustaining research and innovation.

## **Radio JU**

Jadavpur University, Kolkata, launched West Bengal's first Community Radio Station, Radio JU 90.8 on 14<sup>th</sup> April, 2008. It is the first of its kind in Eastern India. The Community Radio Station was set up as part of Jadavpur University's ongoing project TEQIP in collaboration with School of Media Communication and Culture, JU. Since the inception of Radio JU, it has been our constant endeavor to address the different community issues in and around Jadavpur. Our aim is to be the voice of the different communities in our multicultural city. Radio JU transmits programmes within an air radius of 10 KM centering Jadavpur University. It is a non-profit organization run by the University to address the community needs in and around the institution.

At present Radio JU is airing programmes for 8.5 hours daily starting from 11:00 a.m for 7 days a week. We broadcast 7.5 hrs of our own programme and rebroadcast one hour of BBC's programme.

Some of our programmes include: Alochona – discussion programme, Sanskriti – cultural programme, Sishu Tirtho – children's programme, Health Care – health related programme, Ainer Chokhe – law based programme, Sunno Theke Suru – math related programme, Sakhi – women's health & nutrition programme, Cholo Let's Go – travel related programme etc. Radio JU was proudly associated with Sarvo Shiksha Abhijan (from 23.6.08 to 28.6.08 & from 2.7.09 to 9.7.09). We went Live from the studio. School teachers, guardians and members of Sarvo Shiksha interacted with the callers on a series of programs to prevent drop outs from school.

Radio JU was also associated with NCSTC, Dept of Science & Technology, Govt. of India through a project called "Math on Radio" from April 2013 to November 2013 for the school children to commemorate the birth anniversary of mathematician Ramanujan. (Project value Rs 5.6 lakhs for three months)

Radio JU is also running a project with UNICEF called "Child Radio Reporter" for last five years, where school children are trained to produce different radio programmes on different social issues. (Project Value Rs 7.8 lakhs for 1 year)  
Recently RadioJU is running a project named 'Science for Women' under NCSTC, DST, Govt of India where we are producing radio programmes based on issues relating to Women's health & nutrition with the women of our community.

RadioJU won a National award given by Information and Broadcasting Ministry of India on a programme called 'Para Diary' produced by child radio reporter on 'Most creative and innovative programme Category' in 2011.

This year the Child Radio Reporters of RadioJU produced a play "Bandar Khela" on the evils of child marriage which has been selected as the winning entry for "The Laadli Media and Advertising Awards for Gender Sensitivity 2012-13" in the Radio Category.

The radio runs on the work of hundreds of volunteers who perform, organize, produce and broadcast popular programmes throughout the day and has been successful in making change possible in the lives of our community.



## **DST-PURSE**

1. Name of programme: PURSE
2. Faculty to which attached (if applicable): Science, FET, FISLM
3. Administrative body for the programme (with names of members):  
Prof. Subhash Chandra Bhattacharyya (Dept of Chemistry), Coordinator  
Prof. Dipankar Sanyal (Dept of Mechanical Engineering) Jt Coordinator
4. Primary purpose of the programme: Sustaining University Research Eco System
5. Year of establishment: Phase I: September 30, 2009 to September 30, 2013
6. Funding agency/agencies: DST, India
7. Does the programme have separate sections/different wings under it (for example, does it have separate committees or funds for research, teaching and outreach)? If so, please give details: As desired by the DST for looking after the overall implementation of the programme, the programme had a Programme Implementation Group constituted by the VC and subsequently approved by the EC with VC as the Chairman, Pro-VC, Coordinator, Joint Coordinator, Dean of Engineering Faculty (co-opted later), Prof. Salil Kumar Sanyal (Electronics Engineering), Prof. Tapas Ranjan Middya (Physics), FO, DFO and DO as the Convenor.
8. Activities undertaken by this programme, during the period 2008-2013:  
General development of Research Infrastructure including purchase and installation of Equipment, Campus-wide Wi-Fi network and Consumables together with recruitment of scholars, cartographer and special manpower were the primary activities. In addition, a number of faculty members and scholars have received travel support pertaining to presenting papers in different conferences. Besides providing partial assistance to a number of Seminars organized by a number of Departments and Schools a National Conference on Sustainable Development through Innovative Research in Science and Technology was organized on September 28 and 29, 2012.
9. Publications generated by the programme, if any:  
The improved publication profile of Jadavpur University is obviously a combined outcome of funding from many sources and the dedication of the faculty members and the scholars associated with several concurrent programmes. Based on the Scopus search, the year wise number of publications from Jadavpur University is as follows.

|        |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Year   | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| Number | 319  | 311  | 313  | 422  | 488  | 589  | 686  | 792  | 905  | 1039 | 1130 | 1321 | 1367 |
10. Any other highlights you would like to mention: A 11-year H-index of the universities used by the DST as the basis of awarding the grant rose from 43 in the period 1996-2006 to 72 in the period 2000-2010.

The outcome of the increase in total number of publications and h-index compared between the two periods was an increase from Phase I budget allocation of Rs 15 crore for JU to Rs 36.8 crore for Phase II budget. The total incentive grant for 14 Universities is Rs 50 crore, out of which only Delhi University received more than JU. While JU grant escalation has been from Rs 15 crore to Rs 36.8 crore that includes an incentive grant of Rs 6.8 crore, for DU it is from Rs 30 crore to Rs 40.8 crore including an incentive grant of Rs 10.8 crore. PURSE Phase II is expected to start from January 1, 2014 for the first group of 14 Universities receiving Phase I grant.
11. Future plans: University has sent the Phase II proposal to DST in the first week of October 2013 by compiling the research plan put forward by all the constituting units of the PURSE programme.



## **CENTRES OF STUDY**



## **CENTRE FOR STUDIES IN AFRICAN LITERATURES AND CULTURES**

Coordinator: Prof. Ipshita Chanda

Brief Profile:

Year of Establishment: 2006

Department to which this Centre is attached: Attached to the Faculty of Arts, housed in the Department of Comparative Literature.

Faculty profile:

The Centre has no staff exclusive to it. Activities are run by teachers (attached to the Department of English and the Department of Comparative Literature) + Research Fellows (attached to the Department of Comparative Literature and School of Media Communication and Culture).

Major Objectives:

- A forum for the study of African cultures in the state, and later across the country.
- Facilitate South-South linkages by establishing academic relationships with African nations in terms of exchange, research and other modes of cooperation.
- Conducting research on literatures and cultures of Africa, within Africa and across the world.
- Establishing institutional and inter-departmental links for research.
- Building resources for African literary and cultural studies.

Courses offered:

- The Center is housed in the Department of Comparative Literature and offers a course in Literatures of Africa as an optional in the third and fourth semesters of the MA programme.
- Four Extra Departmental courses in the cultures of the African Diaspora, including North America, Latin America and the Caribbeans, entitled African Cultures across the World to Undergraduate students of the Arts Faculty. In the four semesters, the centre offers courses in Music, Poetry, Drama and Narrative respectively.
- Syllabi for two more Extra Departmental courses in African Cultures across the World have been approved by the academic committee of the Centre for Studies in African Literatures and Cultures, which includes:

(1) African Cultures : A History of Dissemination

This course seeks to trace the historical processes by which individuals and communities from Africa were taken across the world to the United States, Latin America, the Caribbean Islands etc. through the Slave Trade and were in subsequent years assimilated into the societies of these countries. The course will mainly focus on the narratives/biographies/ autobiographies/memoirs of slaves and first-generation emancipates also giving due accord to other forms of “popular” “black” cultural movements and references to treatises, policies and declarations dealing with the education of Slaves.

As a governing logic the course will emphasize the process by which the slaves came to learn the culture and specifically the language of their “masters” in which they later chose to express and assert themselves.

(2) ‘Africa’ in the Modern World

This course will focus on the various aspects of culture influenced directly and indirectly by African roots and residues, across the world. The course will be geared towards the understanding the generation and consumption of the “African-Some Nationality” identity in global media and culture. The course will focus on the impact of Africa in the modern world in fields like cuisine, film, fashion, sports and other spheres of popular culture.

Though approved by the academic committee, introduction has been held up due to lack of even part-time faculty.

#### Area of Research Activities:

Broad Area:

South-South linkages.

Special Focus:

Contact between cultures of the 'south'.

#### Thrust areas of research:

- African Cultures across the World
- Cultures of Orality

#### National/International visitors:

In the phase under review, we have had three international visitors:

Professor C.L.Innes, Professor Emeritus of Post Colonial Literature, University of Kent, United Kingdom, delivered the inaugural address on "After Things Fall Apart: African Writers Responding to Achebe" in Palaver VII, November 6-7, 2008.

Professor Isabel Hofmeyr, Professor of African Literature, University of Witwatersrand, Johannesburg, South Africa, and Director, Centre for Indian Studies in South Africa, University of Johannesburg delivered the inaugural lecture entitled "Seeking Empire, Finding Nation: Gandhi and 'Indianness' in South Africa" in Palaver IX, January 17-18, 2011. Professor Hofmeyr also spoke on post-colonial African Literatures.

Professor Tony E. Afejuku, Professor of English and Literature, University of Benin, Benin City, Nigeria, (in collaboration with the Comparative Literature Association of India and the Centre of Advanced Studies in Comparative Literature at Jadavpur University) delivered the keynote address in Palaver XI, January 29, 2013. Professor Afejuku taught classes on Achebe's *Things Fall Apart* to post graduate students in the Department of Comparative Literature.

#### National visitors:

Professor Bala Kothandaraman (Country Coordinator, World Celebrations of TFA @ 50 and Professor of English (Retd.), Osmania University, Hyderabad introduced the TFA @50 and delivered a lecture on Achebe in Palaver VII, November 6-7, 2008.

Dr. Mousumi Roy Choudhuri screened a film show: "GUZOW: Journey" by Ethiopian film producer, director, editor Aida Ashenafi followed by an interactive session with on 28 July 2011.

#### Trivia:

The Centre offers a course on African music at the undergraduate level. Students of this performed on request at Sasha (an exclusive boutique of some repute at Kolkata that has for a considerable time been displaying and selling handicrafts and artifacts of all kinds) at their opening of African artifacts display.

Furthermore, students also performed at the inaugural and valedictory sessions of Palaver IX (January 2011), Palaver X (March 2012) and Palaver XI (January 2013).

The students from the Centre performed on the Jadavpur University Community Radio station- Radio JU at 90.8MHz. Discussion on Nelson Mandela: Broadcasted on his birthday July 18, 2008 at 5.30 pm and repeat on July 19, 2008 at 2.30 pm.

A bursary named "Professor Daleep Singh fellowship in memory of Professor B.N. Ganguli" has been awarded for the second year to a research scholar registered for PhD. or M.Phil thesis on a topic relating to any country in Sub-Saharan Africa.

The Centre has hosted the eastern regional international seminar in the event of the 50-year's celebration of Chinua Achebe's *Things Fall Apart* in collaboration with the Worlds Achebe Foundation, New York, with support from the Indian Council of Cultural Relations on Nov.6&7, 2008.

The website for the Centre for Studies in African Literatures and Cultures (CSALC) was officially launched at Palaver X, on March 27, 2012. The web address is <http://csalc.complitju.org/>

Annual budget: Rs. 12,000

Research collaborations:

The Coordinator is a member of the Advisory Council for the Policy Research Institute of the African Studies Association of India, and links with scholars across Africa especially interested in literatures and cultures of Africa have been established.

The Centre hosted, in 2012-2013, Dr. Tony Afejuku, Professor of English & Literature, in the Department of English & Literature, University of Benin, Benin City, Nigeria, who worked here on relations between Indian and African literatures.

The Centre participated in the formation and the first meeting of the Oral Historians Association of India (OHAI), at the Centre for Public History, Srishti School of Art, Design and Technology, Bangalore. The Centre is looking forward to collaborate with OHAI's future endeavors.

Collaborative Programmes:

Currently, we are discussing collaboration with the African Literatures and Languages programme in the School of South Asian Studies at Peking University, Beijing. Masters students from this programme are expected to participate in this year's Annual Forum for Scholars of African Literatures, and facilitate the visit of Professor Femi Osofisan.

We are expecting Professor Femi Osofisan, Department of Theatre Arts, University of Ibadan, Nigeria, in collaboration with the School of South Asian Studies, Peking University, Beijing, China. Professor Osofisan is expected to do a theatre workshop when he comes.

Publications: See Annexure

Seminars: The Centre, right from its inception, has organized Palaver, a forum for scholars in African Studies each year till date.

Palaver X: a forum for scholars of African Studies, a conference on African Literatures and Cultures, in collaboration with Department of Comparative Literature, J.U, on March 27, 2012 on "Theatre(s) of Protest: Africa in/and the World".

Invited performance of songs and poetry of African and African origin artists and poets at the opening of an African artifact festival at Sasha, Kolkata on June 29, 2012.

Palaver XI: a forum for scholars of African Studies, a conference on African Literatures and Cultures, on January 29, 2013 on "Identity Politics in/and Africa".

Palaver XII will be held in this academic year. This year, preceding the conference, we hope to include a workshop on performance as well.

Achievements in the last five years:

1. The Annual Forum for Scholars of African Literatures was begun in 2002, with the first meeting being jointly hosted by the School of Women's Studies and the Department of Comparative Literature, as the Centre had still not come into being. Since then the Centre, in collaboration with the Department of Comparative Literature and various other schools and Departments of the Arts Faculty has hosted this Forum continuously for eleven years. The last Forum, entitled Palaver XI was held in January 2013. Scholars from different departments of our University, from different colleges and universities in the state, and from Africa have participated in each of these. The list of scholars and visitors is provided in 4 below.
2. Three volumes of Proceedings of this Forum, entitled Palaver Volume I, Palaver Volume II, and Palaver Volume III containing papers by scholars who have participated in the Forum, both from India and Africa, have been published, the first in 2004, the second in 2007, and the third in 2011.

3. An orientation lecture for post-graduate students of the Dept. of Comparative Literature is delivered each year by an external expert on the area, and hosted by the Centre. Over the years, the Centre has accumulated an appreciable amount of teaching aids, in hard and soft format, which includes audio-visual and digital material. Some of these have been prepared by the students themselves.
4. Scholars from Senegal, Uganda, Nigeria and South Africa have visited the Centre and participated in its annual Forum, contributed to its publications and interacted with students.
5. Members of the Centre's Academic Committee and faculty as well as graduate students from the Comparative Literature Department involved in the Centre's activities have been teaching an Optional course in the Literatures of Africa at the Master's level since 1999. This is the only course offered anywhere in the country which teaches the multilingual literatures of the entire African continent, including the formation of scriptal cultures from orality.

Plan of action (next 5 years):

- Introduction of two more Extra Departmental courses in African Cultures across the World, one regarding slave narratives in any genres from Europe and the Americas , and the other regarding popular cultures ranging from sports to music to films, from fashion to food and others.
- Establishing a group for learning and performing music of African origins, growing out of the Extra Departmental course on African Cultures across the World.
- Developing teaching materials for African Literatures and Cultures for Indian Universities. In order to reach a wider audience, apart from launching our official website; we have created accounts on popular social networking sites like Facebook, and professional networking site like Linkedin. Articles and relevant materials are uploaded at regular intervals in these sites, with an active response from the users. A list of books gifted by Prof. Manabendra Bandopadhyay is already uploaded on our website, the Centre plans to upload its complete library catalogue and the archive records of music and performance forms.
- Archiving of resources: an audio visual archive of music of African cultures across the world. The process has already started by collecting materials and preserving them in the digital format.
- Extension of Research Support (National): We act as a resource centre for scholars and teachers in other departments like Philosophy and English at Jadavpur University, and for other universities in India, like Viswa-Bharati, Barddhaman and Assam University, Silchar and Central University of Rajasthan, Kishengarh.
- Strengthening International networks: We are currently facilitating the work of researchers from the Department of Anglophone Studies, University of Antananarivo, Madagascar working on oral literature and the dynamics of transmission/transfer of values and knowledge—a comparative approach of Malagasy literature with that of some East African Countries (Mozambique, etc.)/Indian Ocean islands literature.
- Members of academic committee are experts on Policy Research Initiative of the African Studies association of India (PRIASA), located in the School of International Relations at Jawaharlal Nehru University, Delhi.



## **Center for Canadian Studies**

1. Number and names of faculty with ongoing projects from
  - a) national : 2 – Suchorita Chattopadhyay & Debashree Dattaray
  - b) international funding agencies : 2 – Suchorita Chattopadhyay & Debashree Dattaray
  - c) Total grants received : Rs.4,50,000/-
2. Give the names of the funding agencies, project titles and grants received project-wise.

Funding Agency: Shastri IndoCanadian Institute funded by Department of Foreign Affairs and Industrial Trade, Government of Canada
3. Seminars/Conferences
  - 2008 A two-day international students' seminar on "Myths, Culture and Society : A First Nations' Perspective", organized by the Centre for Canadian Studies on March 25-26, 2008
  - 2009 A two-day international seminar on "The Reality of the Indigenous Woman : Canada & India" organized by the Centre for Canadian Studies on February 5-6, 2009.
  - 2010 Coordinator of the International conference on " Land of Promise : Stories of the Immigrants in Multicultural Canada" organized by the Centre for Canadian Studies, Jadavpur University from 3-5 February 2010.
  - 2011 Coordinator of the International conference on "Building Bridges: Negotiating Cultural Memories in Canada and India" organized by the Centre for Canadian Studies, Jadavpur University from 15<sup>th</sup>-18<sup>th</sup> February 2011
  - 2012 Coordinator of the International conference on "Demystifying the Urban: Borderlands of Canada and India" organized by the Centre for Canadian Studies in collaboration with Bhasha Research and Publication Centre, Vadodara and the Centre of Advanced Study, Department of Comparative Literature, Jadavpur University, Kolkata on 1-3 February, 2012
  - 2013 Coordinator of the International Conference on "Painting the Rainbow from Bloor to B'lore: Connecting Cultures of Difference in Canada and India" organized by the Centre for Canadian Studies, Jadavpur University on February 26 & 27, 2013
4. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):

Professor Suchorita Chattopadhyay

  - 2008 "The Canadian Aboriginal Woman : the Truth about her Identity" at the International Seminar on "Identity and Representation : Indian and Canadian Perspectives" organized by the Canadian Studies Centre, SNDT Women's University, Mumbai and the Shastri Indo-Canadian Institute.
  - 2009 "Canadian Studies in India : Relevance and Praxis" – invited lecture delivered at the University of Victoria, Canada, on July 7, 2009.
  - 2010 Resource person at the Shastri Indo-Canadian Institute's Canadian Studies Fellowship Programme Orientation Programme for Indian Scholars 2010-11, at the Lecture Hall, India International Centre, Annex, New Delhi on 24-25 May, 2010.
  - 2010 Invited speaker at the Roundtable on "Shastri Indo-Canadian Institute's Role in Mapping of Internationalization of Higher Education in India and Canada" at the Symposium on "Shifting Paradigms: Mapping Internationalization of Education in India, at Dr. Ram Manohar Lohia National Law University, Lucknow, on April 17<sup>th</sup>-18<sup>th</sup>, 2010
  - 2011 Invited lecture delivered and session chaired at the International Seminar on 'Meeting Youth Needs in the 21st Century Canada and India: Youth Work, Young People and Youth Policy' in collaboration with the Department of Sociology, University of Calcutta, on November 28-29, 2011

2011 Invited lecture delivered and session chaired at the International Conference on 'Engaging Canada: A Multi-Disciplinary Conference' in collaboration with the Indian Institute of Management Calcutta on December 3-4, 2011

2012 "Globalization and the literatures of Canada" – paper presented at the GSDS sponsored International Seminar on 'Globalization & Literature' organized by the Gandhi Centre for North-Eastern Languages of Presidency University on 11th and 12th January, 2012 at Presidency University, Kolkata.

2013 Resource Person at SNDT University Mumbai, Department of English in collaboration with U.G.CareaStudies Centre For Canadian Studies has organized a Round Table on Rethinking Literature Studies: Perspectives from India and Canada on March 22 & 23, 2013.

2013 Lead Discussant in Roundtable Discussions on 'India Canada Collaboration in Higher Education – the Road Ahead' held at the India Habitat Centre, New Delhi, organized by Shastri Indo-Canadian Institute, Canada & India at India habitat Centre, new Delhi, on February 17, 2013.

5. Faculty serving in

- a) National committees
- b) International committees
- c) Editorial Boards
- d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)

Professor Suchorita Chattopadhyay

- Chair, Canadian Studies Committee of the Shastri Indo-Canadian Institute, Canada & India ( 2009 -2011)
- Member, Adjudication Committee for Scholar Travel Subsidy Grant, SICI, 2011-2013
- Member, Indian Members' Council, Shastri Indo Canadian Institute, Canada & India (2005 onwards)
- EC member, Shastri Indo Canadian Institute, Canada & India (2013- 2015)

6. Awards / recognitions received at the national and international level by

- Faculty: Professor Suchorita Chattopadhyay  
Faculty Enrichment Programme, Shastri Indo-Canadian Institute, 2000.  
Faculty Enrichment Programme, Shastri Indo-Canadian Institute, 2009.  
Dr. Debashree Dattaray, Fullbright Fellow
- Doctoral / post doctoral fellows Dheeman Bhattachryya  
Doctoral Research fellowship, Shastri Indo-Canadian Institute, 2010-2011.

## Center for Victorian Studies

The Dept of English, JU, has always been very strong in the area of Nineteenth Century literature in general (which is one of the thrust areas of the CAS programme), and particularly in the specialized field of Victorian Studies, with (retired) Professors like Jashodhara Bagchi, Sajni Mukherji and Sheila Lahiri Choudhury leading the way. The present members of the Dept who specialize in the field of Victorian Studies would like to carry on this good work and make the Centre for Victorian Studies set up in 2010, a meeting place for fruitful research in the area.

### Objectives:

- Not only has the Centre collaborated with the sister departments of the Arts Faculty of JU, but we also hope to make it a nodal centre for all researchers / college teachers working in the area in the various Universities and Colleges in West Bengal. Later, we aim to make it a centre of excellence at the national level by collaborating with the English Departments of the leading Indian Universities. We also hope to revive a (now defunct) tradition of regularly holding 'Work-in-progress' seminars where young Ph.D. students working on the Victorian period can discuss their research projects and benefit from constructive criticism / suggestions from more experienced faculty members.
- We would also like to invite established and reputed scholars in the field to visit our Dept so that our students can benefit from their expertise. We have already had valuable inputs from visiting faculty in the recent past: Professor Sambudha Sen of Delhi University, Prof. Phillip Mallett of the University of St Andrews (Scotland), Dr Gowan Dawson of the 'Victorian Studies Centre', University of Leicester (UK). We hope to make such visits an annual feature of the proposed Centre.
- We would like to start working towards setting up a national data base of research work being undertaken in the area in the various colleges and universities of India. This will help to safeguard against needless overlapping in research projects/ theses and prevent waste of time, energy and resources.
- Somewhat more ambitiously, we hope to build up a specialized library of books and journals dedicated to the Victorian period. Any primary material or unpublished resource that is made available to us will be a very welcome addition. In this context, we also hope to collaborate with the National Library, Kolkata, which has a rich collection of nineteenth century archival material.

The major events held during the session April 2011 to March 2012 are as follows:

- The Centre has collaborated with the 'Victorian Studies Centre' of the University of Leicester (UK) whose members have expressed a keen interest to collaborate with researchers here.
- Under the grant of a UKIERI 'Faculty Exchange' programme', 2011-2012 two academics from the Centre for Victorian Studies (CVS), Dr. Sucheta Bhattacharya (Associate Professor, Dept. of Comparative Literature) and Smt. Saswati Halder (Assistant professor, Dept. Of English), visited the School of English and Victorian Studies Centre of the University of Leicester(VSC), UK, in March 2012, to facilitate towards cementing the connections between the Victorian Studies Centres of the two institutions and of bringing an Indian perspective to Victorian studies. The Victorian Studies Centres at Leicester (VSC) and Jadavpur University (CVS) have already developed strong collaborative links and the UKIERI Staff exchange Programme enabled them to further those connections, as

well as facilitate the sharing of best practices on a number of areas involved in the running of the two centres. They participated in the following activities at the University of Leicester:

21 March: English staff seminar on 'Antarctic Exploration in Literature.' (Dr. Mark Rawlinson). Victorian Studies MA seminar on Felix Holt.

Victorian Studies Spring Seminar on 'A Peep at the Natives': Displayed Peoples, Exhibitions and the Natural History of Race in Nineteenth Century Britain. (Dr. Sadia Qureshi, University of Birmingham).

22 March: Launch event for new MA in English Language and Linguistics - 'Rok, Paper, Tweetsters: Changing Modes in the Transmission of English'.

23 March: Explore English Master class.

UG lecture on 'Women Poets and Sensibility'.

26 March: Victorian Studies MA seminar on Dracula, Trilby and late Victorian science. Workshop on collaborations between University of Leicester and Jadavpur University.

27 March: UG lecture on Frances Burney

Victorian Studies Spring Seminar on 'George Eliot's Fat Victorians.' (Smt. Saswati Halder, Jadavpur University)

Victorian Studies Spring Seminar on 'George Eliot's Fat Victorians.' (Smt. Saswati Halder, Jadavpur University)

Victorian Studies Spring Seminar on 'Locating Mr. Reynolds in colonial Bengal.' (Dr. Sucheta Bhattacharya, Jadavpur University)

- Members of CVS had a workshop with the colleagues of School of English and Victorian Studies Centre at Leicester, to explore the nature of the term 'Victorian' from a global perspective and discussed the ways in which the category of 'Victorian' might be extended beyond national boundaries and instead be used to encompass a set of cultural, intellectual and political attitudes that have shaped- and continue to shape India as much as the UK. Ideas were exchanged on the continuing legacies of the Victorian in India as well as in the UK. Discussions were also held on developing the links between the Victorian Studies Centres and the departments of English at both universities. Topics included honorary visiting fellowships, research collaboration, teaching research methodology and innovations in interdisciplinary teaching.
- Our two centres are already engaged in a collaborative research project entitled 'Curating the Victorians,' which examines both the role of museums and related exhibitions in Victorian culture and the contemporary curatorship of Victorian collections. Such links are an important means by which the academic study of Victorian culture can help in understanding and preservation of Britain's unique heritage of Victorian buildings and artefacts.

The major events held during the session April 2012 to March 2013 are as follows:

- Under the grant of a UKIERI 'Faculty Exchange' programme', 2011-2012 two academics from the Centre for Victorian Studies (CVS), Dr. Sucheta Bhattacharya (Associate Professor, Dept. of Comparative Literature) and Smt. Saswati Halder (Assistant professor, Dept. Of English), visited the School of English and Victorian Studies Centre of the University of Leicester(VSC), UK, in March 2012, to facilitate towards cementing the connections between the Victorian Studies Centres of the two institutions and of bringing an Indian perspective to Victorian studies. The visit was reciprocated by a similar one by Professor Joanne Shattock (Professor Emeritus, Dept of English, University of Leicester), Dr Felicity James (Dept of English, University of Leicester) and Dr Gowan Dawson (Dept of English, University of Leicester).

- CVS (Centre for Victorian Studies) UKIERI Seminar: 10 April 2012 at A-V Room, Dept of English: Conference Programme below:
  - 11.05 – 11.55 – Professor Joanne Shattock (Professor Emeritus, Dept of English, Univ. of Leicester): ‘Models of Authorship: George Eliot and Margaret Oliphant’
  - 11.55 – 12.15 – Shantanu Majee (M.Phil. student, Dept of English, JU): ‘“What's in a name?” : Mrs. Oliphant and her most prized possession’
  - 12.25 – 1.15 – Dr Felicity James (Dept of English, Univ. of Leicester): ‘Women, Life-Writing, Dissent’
  - 1.15 – 1.35 – Shreya Chakravarty (Ph.D. student, Dept of English, JU): ‘The empowered woman subject of mesmerism in Arthur Conan Doyle’s The Parasite’
  - 2.05 – 2.55 – Dr Gowan Dawson (Dept of English, Univ. of Leicester): ‘Dickens, Dinosaurs and Design’
  - 2.55 – 3.25 – Saswati Halder (Dept of English, JU): ‘Feuerbachian Oracles in George Eliot’s Fiction’
  - 3.25 – 3.45 – Atreya Banerjee (JRF, Dept of Comp. Lit., JU): On Bengali translations of Wilkie Collins
  - 3.55 – 4.15 – Amrita Banerjee (Ph.D. student, Dept of English, JU): ‘Sexual anxiety about the Indian Nautch in Victorian women’s travel writings’
  - 4.15 – 4.35 – Aritra Chakraborty (Ph.D. student, Dept of English, JU): ‘The Resistance of the Marginalized: Sex Manuals at turn-of-the-century Bengal’
  - 4.35 – 4.55 – Abhishek Mitra (SRF, Dept of Comp. Lit., JU): ‘On Charles Baudelaire’s Paris: a brief discussion, with some stray comments on Jibananda Das.’
- Talk by Professor Deborah Logan (Western Kentucky University & visiting Fulbright scholar) on Harriet Martineau's responses to the 1857 Uprising entitled ‘The Reluctant Imperialist: Assessing the Civilizing Mission in India, 1857-1858’, 20 April 2012 (Fri) at 3.30 p.m. in the A-V room, Dept of English.
  - INTERNATIONAL CONFERENCE ORGANISED BY THE CENTRE OF ADVANCED STUDY, DEPARTMENT OF ENGLISH, AND THE CENTRE OF VICTORIAN STUDIES, JU (18-20 DECEMBER 2012), ON ‘THE DICKENS WORLD: POST-IMPERIAL READINGS’. Coordinated by Sajni Mukherji, Supriya Chaudhuri and Saswati Halder, with support from the British Council and the University’s Merged Grant.

## **Centre for Counselling Services and Studies in Self-Development**

1. Name of the Department/School/Centre: CENTRE FOR COUNSELLING SERVICES AND STUDIES IN SELF-DEVELOPMENT, JADAVPUR UNIVERSITY
2. Year of establishment: 2002
3. Faculty to which the Department/School/Centre is attached: Faculty of Arts
4. Names of programmes offered (UG, PG, MPhil, PhD, Integrated Masters; Integrated PhD, DSc, DLitt, etc.):
  - a) UGC Three Years (Certificate / Diploma / Advanced Diploma ) Career Oriented Course on Stress Management.
  - b) Certificate Course on Basic Skills on Counselling in Conflict Management
5. Interdisciplinary programmes being conducted and other departments involved: Developed two documentary films on Depression & Chemical dependency with students on campus in collaboration with the Department of Film Studies, Jadavpur University
6. Percentage of classes taken by temporary faculty – programme-wise information: 100 %
7. Programme-wise Student Teacher Ratio: 4a) – 5:1; 4b) – 5:1
8. Publications: See Annexure for details
9. Faculty serving in
  - a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)
  - a) Sadhan Chakraborti
    - i) UGC nominated Member of Advisory Committee of Dept. of Philosophy Assam University
    - ii) Member of BOS of Philosophy, Rabindra Bharati University.
    - iii) Member of BOS of Philosophy, West Bengal State University.
    - iv) Member of UGC fund allocation committee for research & seminar, North Eastern region.
10. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) conducted: NIL
11. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):  
Workshops
  1. Name of the Workshop : Anger Management.  
Duration : One Day, 30<sup>th</sup> July 2011.  
Place : Jadavpur University.
  2. Name of the Workshop: Frustration Management.  
Duration : One Day, 11<sup>th</sup> September 2011.  
Place : Jadavpur University
  3. Name of the Workshop: Emotion Management (Organized in collaboration with Power Engineering Department of J.U.)  
Duration : One Day, 17<sup>th</sup> January 2012.  
Place : Jadavpur University, Salt Lake Campus.
  4. Name of the Workshop: Stress Management (for J.U. Staff Members).  
Duration : Five Day, 6<sup>th</sup> February 2012 – 10<sup>th</sup> February 2012.  
Place : Jadavpur University, Main campus. Organized by UGC Administrative Staff Training Centre Jadavpur University.
  5. Name of the Workshop: Stress Management (for J.U. Staff Members).  
Duration : Five Day, 20<sup>th</sup> February 2012 – 24<sup>th</sup> February 2012.

- Place : Jadavpur University, Main campus. Organized by UGC Administrative Staff Training Centre, Jadavpur University.
6. Name of the Workshop: Interpersonal Communication. .  
 Duration : One Day, 13<sup>th</sup> March 2012.  
 Place : Salt Lake campus.  
 (Organized in collaboration with the Dept. of IEE. J.U.)
7. Name of the Workshop: Self - Confidence.  
 Duration : One Day, 31<sup>st</sup> March 2012  
 Place : Jadavpur University, Main campus.
8. Name of the Workshop: Workshop on Prevention of Ragging (for JU teachers)  
 Duration : One Day, 29<sup>th</sup> June 2011 – 10<sup>th</sup> February 2012.  
 Place : Jadavpur University, Main campus.  
 Organized by Anti-Ragging Committee, J.U.
9. Name of the Workshop: Workshop on Prevention of Ragging (for JU non-teaching staff)  
 Duration : One Day, 4<sup>th</sup> July 2011.  
 Place : Jadavpur University, Main campus.  
 Organized by Anti-Ragging Committee, J.U.
10. Name of the Workshop : Workshop for teacher members of JU Anti-Ragging Squad  
 Duration : One Day, 29<sup>th</sup> June, 2011  
 Place : Jadavpur University (Main Campus)
11. Name of the Workshop : Performance Anxiety  
 Duration : One Day in January 16<sup>th</sup>, 2011  
 Place : Jadavpur University (Main Campus)
12. Name of the Workshop : Interpersonal Communication  
 Duration : One Day in February 26<sup>th</sup>, 2011  
 Place : Jadavpur University (Main Campus)
13. Four workshops were conducted for employees of Punjab National Bank on Improving Quality of life through Self awareness in June and July, 2008.
14. Conducted two workshops for college teachers on student aid and counselling organized by Academic Staff College of Jadavpur University in 2008
12. Student profile programme-wise (in the Current Semester):

| Name of the Programme  | Applications received | Admitted |        | Pass percentage (w.r.t. last graduating batch) |        |
|--|-----------------------|----------|--------|--|--------|
|  |                       | Male     | Female | Male   | Female |
| UGC Three Years (Certificate / Diploma / Advanced Diploma )<br>Career Oriented Course on Stress Management | 55                    | 6        | 19     | 80 %   |        |
| Certificate Course on Basic Skills on Counselling in Conflict Management                                   | 60                    | 3        | 22     | 85 %   |        |

13. List the teaching methods adopted by the faculty for different programmes.  
 Lectures, brainstorming, role play, group discussion.
14. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?  
 a) Lesson plan for each class is submitted by teachers  
 b) Review classes are taken regularly.  
 c) Presentations by students at the end of the courses are examined by external expert.
15. Highlight the participation of students and faculty in extension activities.  
 Students and faculty members facilitate in reducing distress of individuals belonging to different families and organization.

16. Briefly highlight contributions in generating new knowledge, basic or applied.  
The centre has developed an indigenous body of knowledge and skill for ameliorating psychological distress of people of our country.

17. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC)

*Strengths*

- i) The university authority has keen interest in developing the centre to fullest possible extent.
- ii) Two faculty members are committed to the development of the Centre.
- iii) The centre is closely associated with reputed mental health professionals and mental health organizations all over India that helps a lot in improving the kind of research project undertaken by the Centre.
- iv) UGC approves at times fund for both the service provided by the centre, the kind of research project undertaken by the Centre and also for the courses run by the Centre.
- v) There is huge demand for the service provided and the courses run by the Centre. There is also strong need for the kind of research projects undertaken by the Centre.

*Weaknesses*

- i) Inadequate space
- ii) Inadequate fund
- iii) No post of faculty members and non-teaching staff.
- iv) No laboratory
- v) Inadequate library

*Opportunities*

- i) Mental health issues are rising day by day.
- ii) There is huge gap between need for addressing mental health problems in our society and the existing number of mental health professionals in India
- iii) Quality research in the area of mental health is very few in India.
- iv) The member of mental health centre in University / Institutions for generation of man power in mental health is very small compared to the actual need in India.
- v) The need for mental health service & research is strongly felt at the national level.

*Challenges*

- i) To stop ragging through counseling in academic institutions.
- ii) To facilitate students in handling their stress in different issues. Developing a model of management of stress or students in India.
- iii) To prevent addiction to drug / alcohol in student community.
- iv) To help students and the members of our society at large suffering from depression and other psychological illness as far as practicable
- v) To prevent through counseling violence caused by students in academic institutions.

18. Future plans (in as much detail as possible):

- a) To develop the centre as a full fledged medical centre of mental health services.
- b) To undertake significant research projects in mental health needed in our society
- c) To contribute significantly to the generation of man power in mental health at national level.



## Center for Indology

1. Name of the Department/School/Centre: Centre for Indology
2. Year of establishment: 2005
3. Faculty to which attached: Department of Sanskrit, Faculty of Arts
4. Publications:
  - Edited Books: 1 (Tarkasamgraha edited by Prof. Sarbani Ganguli) during 2012-13
  - Books with ISBN with details of publishers: Tarkasamgraha edited by Prof. Sarbani Ganguli, published by Centre for Indology & printed by Sanskrit Book Depot, March 2013; ISBN 978-93-81795-37-8
5. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):
  - 2008-09
  - Collaborated with ASIHSS-Sanskrit and Department of Sanskrit to organize a 5 day Workshop and National Seminar on “Translation Studies: from and into Sanskrit and related languages” from 24.2.2009 - 28.2.2009
  - 2009-10
  - 12.6.09: Arranged a lecture on “Overview of Apohasiddhi” by Drs. Patrick Mc Allister of Vienna
  - August 17– September 09, 2009 ( with breaks, for 10 days): Organized a series of lectures by Dr. Ratna Basu (Professor of Sanskrit, University of Calcutta and Coordinator, CUMRC) on “Development of Asokan Brahmi Script through ages”
  - 05.02.2010 : Arranged a seminar-lecture on “Performing Arts : theory and practice” delivered by Dr. Mandakranta Bose, Director, Centre for India and South Asia Research, University of British Columbia
  - 18.02.2010 : Arranged a seminar-lecture on “Bengal Epigraphy: its various aspects” delivered by Dr. Gouriswar Bhattacharya, Retd. Professor, Free University, Berlin
  - 2010-11
  - Organized a series of lectures by Dr. Ranabir Chakravarti (Professor, Centre for Historical Studies, JNU) on “Epigraphic Bearings on Ancient History and Culture” in April, 2010
  - Organized a series of lectures by Dr. Ratna Basu (Professor of Sanskrit, University of Calcutta and Coordinator, CUMRC) in September 2010 on “Sharada script in Inscriptions and Manuscripts”
  - Organized a series of lectures by Aditi Sarkar (Associate Professor at that time, now Professor, Department of Sanskrit, University of Burdwan) on “The Sociopolitical Scenario of India during the Gupta Rule as reflected in a few Important Inscriptions” in February-March 2011
  - 2011-12
  - Organized a 3 day workshop on “Sanskrit Grammar: theory and practice” from 13.12.11 to 15.12.11

## Centre for Microprocessor Application for Training Education and Research

1. Name of the Centre: Centre for Microprocessor Application for Training Education and Research, CSE Dept., Jadavpur University
2. Year of establishment: 1983-84
3. Faculty to which attached: Faculty of Engineering
4. Names of programmes offered: Short-term (88hrs) Certificate programme on Introduction to LINUX and C Programming
5. Courses in collaboration with other universities, industries, foreign institutions, etc.: Short term (52 hrs) certificate programme on Business Intelligence and Data Warehouse (BIDW) in collaboration with BiCG, Kolkata - 700136
6. Examination System: At the end of the course
7. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors: Dr. D.K. Basu, Former Professor, CSE Dept., JU, and AICTE Emeritus Fellow
8. Number of academic support staff (technical) and administrative staff: 2 (temporary)
9. Research thrust areas as recognized by major funding agencies: Microprocessor Applications and allied fields
10. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise

| Title  | Faculty                                       | Funding Agency | National/International | Grants received                         |
|--|---|----------------|------------------------|---|
| Intensity Inhomogeneity Correction in Magnetic Resonance Images  | Jamuna Kanta Sing                             | AICTE          | National               | Rs. 4,00,000                            |
| Development of robust face recognition systems from video  |   | UGC            | National               | Rs. 7,28,261                            |
| Design and Development of Facial Thermogram technology for Biometric Security System   | Prof. M. Nasipuri and Debotosh Bhatta-charjee | UGC            | National               | Rs.10,76,834                            |
| Development of 3D Face Recognition Techniques Based on Range Images  | Bhatta-charjee                                | DIT, MCIT      | National               | Rs.66,21,250                            |
| Development of an Integrated Web Portal for Healthcare Management based on Sensor-grid Technologies  | Sarbani Roy                                   | NRDMS          | National               | 22 Lakhs for 3 years (2011-2014)        |
| Performance based Resource Management and Load balancing in Cloud Environment  |   |                | National               |   |
| Segmentation of the carotid vasculature in human CT angiography  | Subhadip Basu                                 | DST            | National               | Rs. 8,58,000/-                          |
| Design of Multimodal Biometric Systems   |   | UPE-II         | National               | Rs.13,63,200                            |
| Design of Multimodal Biometric System for Various Security and Forensic application  | Subhadip Basu                                 | UPE            | National               | Rs. 13,63,200/-                         |
| An optical recognition system for handwritten Bangla text and its extension to automatic transcription of pre-formatted form documents (Co-Investigator) |   | PURSE-DST      | National               | Rs. 58,05,000/- (Allotted to CSE Dept.) |

11. Inter-institutional collaborative projects and associated grants received

j) National collaboration b) International collaboration

| Name of the Faculty | Title   | National collaboration   | International collaboration  | Grants received    |
|---------------------|---|--|------------------------------|--------------------|
| Susmita Ghosh       | Collaborative Program: India-Trento Program for Advanced Research (ITPAR) Project entitled "Advanced Techniques for Remote Sensing Image Processing & Recognition". | Indian Institute of Technology (Bombay), Indian Statistical Institute (Kolkata), Jadavpur University (Kolkata) | University of Trento (Italy) | About Rs. 2 crores |

12. Publications: See Annexure for details

\* H-index

| Faculty Name      | h-index |
|-------------------|---------|
| Mita Nasipuri     | 15      |
| Nandini Mukherjee | 9       |
| Jamuna Kanta Sing | 9       |
| Subhadip Basu     | 11      |
| Sarbani Roy       | 6       |
| Ram Sarkar        | 9       |

13. Details of patents and income generated: See Annexure

14. Faculty serving in: See Annexure

a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)

- Faculty
  - a. Boysscast Fellowship: Subhadip Basu
  - b. Fulbright Senior Research Fellow: Sarbani Roy
  - c. Erasmus Mundus Programme of the European Union Postdoc Fellow: Debotosh Bhattacharjee & Nibaran Das
- Doctoral / post doctoral fellows
- Students (Give details)

15. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

- a. National Conference: ReTIS-08
- b. International Conference: ReTIS-11

16. Present details of departmental infrastructural facilities with regard to

- a) Library: 1 (600 books)
- b) Internet facilities for staff and students: available
- c) Total number of class rooms: 1
- d) Class rooms with ICT facility: 1
- e) Students' laboratories: 1
- f) Research laboratories: 1

## **Center for Buddhist Studies**

1. Name: ICPR CENTER FOR BUDDHIST STUDIES
2. Year of establishment: 2012
3. Faculty to which attached: Faculty of Arts, Department of Philosophy
4. Faculty Profile: No permanent faculty positions
5. List of Visiting Professors:
  - Professor Suniti Pathak, Retired Professor, Department of Indo-Tibetan Studies, Viswa Bharati, Shantiniketan
  - Professor Garfield, Doris Silbert Professor of Philosophy and Director of the Logic Program and of the Five College Tibetan Studies in India Program at Smith College
  - Professor Prabal Kumar Sen, Department of Philosophy, University of Calcutta
6. Thrust areas of Research as recognized by major funding agencies: Buddhist Logic and Epistemology.
7. Faculty selected Nationally/Internationally to visit other laboratories/institutions/industries in India and abroad (give details):

Madhumita Chattopadhyay

  - Worked as a Visiting Research Scientist under the JSPS Long-term Invitational Fellowship Program on Indian Philosophy of Language at the Department of Indian Philosophy, Hiroshima University, Japan from 1<sup>st</sup> March 2010 to 31<sup>st</sup> December 2010.
  - Visited the Department of Philosophy, University of Liverpool, Liverpool, UK, in May 2008 under the Charles Wallace India Trust Fellowship to work on Buddhist Theory of Concept Formation.

Ratna Dutta Sharma

  - Erasmus Mundus Europe Asia Visiting Fellowship, 3<sup>rd</sup> September, 2012 – 3<sup>rd</sup> October, 2012
8. Seminars/Conferences/Workshops organized and the source of funding (National/International) with brief details (mention any notable features):
  - An Eight-day Workshop on “Reading Tibetan Buddhist Text (Basic Level)” was organized by the Center and the source of funding was from the ICPR Fund.
  - A National Seminar on “Different Forms of Buddhism” was organized by the Center and the source of funding was from the ICPR Fund and from the University Merged Scheme.
9. Present details of infrastructural facilities with regard to:
  - a) Library: The Center has started establishing its own library with 200 books purchased so far.
  - b) Internet facilities for staff and students: The Center has one Computer with internet facilities and one printer for the use of the scholars and students.
  - c) Total number of class-rooms
  - d) Class-rooms with ICT facility
  - e) Students Laboratories
  - f) Research Laboratories

10. Give details of student enrichment programs (special lectures/workshops/seminar) involving external experts:

- An Eight-day Workshop on “Reading Tibetan Buddhist Text (Basic Level)” was organized by the Center and the source of funding was from the ICPR Fund.
- A National Seminar on “Different Forms of Buddhism” was organized by the Center and the source of funding was from the ICPR Fund and from the University Merged Scheme.

11. Briefly highlight the contributions of the Center in generation of new knowledge, basic or applied:

- Though the Center is in its infancy, it is trying hard to contribute something in the generation of new knowledge. For this purpose, the Center has organized a Workshop on Reading Tibetan Buddhist Texts for the different students, researchers and teachers who are interested in studying Buddhist texts in their original language.

12. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).

*Strengths*

This is an inter-disciplinary Center and also an inter-institutional one. We have as members of this Center, scholars not only from Jadavpur University, but also from Rabindra Bharati University, University of Calcutta, Saha Institute of Nuclear Physics. These scholars actively take part in the different activities of the Center. It is because of such active and dedicated participation of the members that it has been possible to arrange one Workshop, one Seminar and a series of lectures by Visiting Professors within a short period of one year.

*Weaknesses*

We do not have sufficient infra-structure for executing all our plans

*Opportunities*

Scholars of Buddhism get an opportunity to interact with each other and also can learn from eminent Buddhist scholars at this Center through workshops, seminar, lectures etc. Such activities not only enrich the students but also help flourishing Buddhist philosophical tradition in this part of the country.

*Challenges*

Since this Center is very young it is a challenge to sustain and develop it according to the ideals and goals articulated at the beginning of the Center.

13. Future plans (in as much detail as possible).

- To have collaborations with International Institutes of Buddhist Studies
- To have Ph.D program in the Center
- To arrange for Diploma/Certificate Courses on Buddhist Studies
- As students of Philosophy we do not have firsthand experience of dealing with manuscripts, written in Pāli, Tibetan and Sanskrit languages. But these are essential for doing higher studies in Buddhist philosophy. So to facilitate this, we plan to establish a unit in this Center which will arrange for studying these languages as well as handling manuscripts.

## Centre for Plasma Studies

1. Name of the Department/School/Centre: Centre for Plasma Studies
2. Year of establishment: 1993
3. Faculty to which attached: Science
4. Names of programmes offered: Ph.D.(Sc.)
5. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:
  - (i) Prof R.Bhar- Co-ordinator (from 22.08.2012 continuing)
  - (ii) Prof Subhash Chandra Bhattacharya, Dept. of Chemistry, JU
  - (iii) Prof Prabir Kumar Kundu, Dept. of Mathematics, JU
  - (iv) Prof Tapas Ranjan Muddya, Dept. of Physics, JU
  - (v) Prof Nikhil Chakraborty, Plasma Physics Division, SINP, Kolkata
  - (vi) Dr Anup Kumar Bandyopadhyay, Dept. of Mathematics, JU
  - (vii) Prof Chandan Sarkar, Dept. of ETCE, JU
  - (viii) Dr Mridul Bose, Dept. of Physics, JU
  - (ix) Prof Manoranjan Khan, UGC Emeritus Fellow, Dept. of Instrumentation Science, JU
  - (x) Prof M.R.Gupta, Retired Prof., CU (Expired on 16<sup>th</sup> July, 2013)
  - (xi) Dr H.C. Pant, Retired Scientist, BARC, Mumbai
  - (xii) Prof R.K.Roaychaudhury, Retired Professor, ISI, Kolkata
  - (xiii) Prof K.P.Das, Retired Professor, CU
  - (xiv) Prof R. Pal, Plasma Physics Division, SINP, Kolkata
  - (xv) Dr Samiran Ghosh, Dept. of Applied Physics, CU
  - (xvi) Prof A.K.Pal, Ex Emeritus Prof. Dept. of Instrumentation Sc., JU
  - (xvii) Prof Bijan Bagchi, Dept. of Applied Physics, CU
  - (xviii) Dr Basudeb Ghosh, Dept. of Physics, JU
6. Research thrust areas as recognized by major funding agencies:  
Plasma Science & related Technology, Astrophysics, Nonlinear -Optics, Dynamics & Systems.
7. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.

### A) Major ongoing Research Project

| Sl | Project Investigators   | Title  | Funding    | Period   | Grant in Rs |
|----|---|--|------------|----------|-------------|
| 1. | Prof. M. Khan (PI)<br>Prof. R. Bhar (Co-PI)<br>Rajkumar Ray-<br>chaudhury (CoPI, Ex ISI)  | Investigation of interfacial fluid instabilities under the combined action of compressibility, magnetic field and velocity shear                               | DST (SERB) | 2013-16  | 23.88 Lakhs |
| 2. | Dr Anjana Sinha (PI)  | Study of some quantum mechanical problems arising in semiconductors and optical structures   | DST, GoI   | 2012- 15 | 18.05 Lakhs |
| 3. | Prof. M. Khan (PI)<br>Prof. M.R.Gupta (CoPI)<br>Prof. R. Bhar (CoPI)<br>Dr. Samiran Ghosh (CU, CoPI)                                  | Studies of Effects of Dust charge variations on nonlinear collective phenomena in a dissipative dusty Plasma   | CSIR       | 2009– 13 | 15 Lakhs    |
| 4. | Prof. M. Khan(PI)<br>Prof. R. Bhar(Co-PI)<br>Prof. M.R. Gupta(Co-PI)<br>Prof.S.Sarkar (CU,CoPI)<br>Prof. N. Chakraborty (SINP, Co-PI) | Investigation of the characteristics of wave propagation and Jeans instability in a complex plasma in presence of secondary electron emission from dust grains | DAE, GoI   | 2009- 14 | 18 Lakhs    |

(B) Project completed in the umbrella of the Centre for Plasma Studies within 2008 - 13:

| Sl. | Project Investigator  | Title of the Project   | Funding                                 | Period    | Amount               |
|-----|---|--|---|-----------|----------------------|
| 1.  | Prof. M. Khan (PI)<br>Prof. M.R.Gupta<br>Prof. R. Bhar (Co-PI)<br>Prof.S.Sarkar (CU)<br>Prof H.C.Pant(BARC)<br>Dr M.K.Srivastava (BARC) | Investigation of interface fluid instabilities in ablatively Driven multilayer targets.                    | DST, New Delhi                          | 2005-2008 | 19 Lakhs             |
| 2.  | Prof. R. Bhar (PI)<br>Prof. M. Khan(Co-PI)<br>Prof. A.K. Pal(Co-PI)<br>Prof. H.C. Pant(BARC)<br>Prof R.Pal (SINP, CoPI)                 | Synthesis of cBN thin film by Plasma assisted Pulsed Laser Ablation Techniques and Their Characterization. | RSE program of DST, Jadavpur University | 2009-12   | 52.2 Lakhs + One JRF |
| 3.  | Prof. M. Khan (PI)<br>Prof. M.R.Gupta (Co-PI)<br>Prof. R. Bhar (Co-PI)  | Investigation of RM & RT instability in a spherical Targets  | DST- Govt. of India                     | 2009 – 12 | 16 Lakhs             |

8. Inter-institutional collaborative projects and associated grants received

National collaboration b) International collaboration

a) Collaborative Institute (India):

- (i) Bhabha Atomic Research Centre (Mumbai).
- (ii) Tata Institute of Fundamental Research (Mumbai).
- (iii) Saha Institute of Nuclear Physics (SINP), Kolkata, Plasma Division.
- (iv) Institute for Plasma Research, Gandhinagar.
- (v) Indian Institute of Technology, Kanpur.
- (vi) Inter University Centre for Astronomy and Astro-physics, Pune
- (vii) Indian Statistical Institute, Kolkata, Physics & Mathematics Unit.
- (viii) University of Calcutta, Applied Mathematics Dept.

Collaborative Institute (International):

- (i) Universita Degli Studi de Milano- Bicocca (Italy)
- (ii) Centre Lasers Intenses et Application, University Bordeaux, France.
- (iii) University of North Carolina, Charlette (USA).
- (iv) University of Zulu, South Africa.
- (v) Institute of Physics, Beijing (China).

9. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. (Give details.) as attached in 17 A & B

- Research facility/centre run by the Dept./school/centre which has: Centre for Plasma Studies have both national recognition & international recognition
- state recognition
- national recognition
- international recognition

10. Special research laboratories sponsored by / created by industry or corporate bodies: Pulse Laser Deposition Laboratory is developed from the Project grant received from PURSE –DST scheme of the Jadavpur University phase- I

11. Publications: Please see Annexure

12. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):

- (i) Prof Manoranjan Khan was invited by the University de degli, Milan, Italy, to visit Department of Physics for two weeks for collaborative Research work in 2008.
- (ii) Prof Manoranjan Khan was invited by the Department of Physics, IIT, Kanpur, to deliver colloquium of the Department in 2012.

13. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)
- (i) Prof Manoranjan Khan, serving as external experts of Board of Studies, Doctorate Committee of several Universities/Institute.

14. Student projects

- percentage of students who have done in-house projects including inter-departmental projects : 50 %
- percentage of students doing projects in collaboration with other universities / industry / institute : 50%

15. Awards / recognitions received at the national and international level by

- Faculty :  
Prof Manoranjan Khan received the following awards:  
(i) ASSOCIATE THIRD WORLD ACADEMY OF SCIENCES (ICTP, ITALY) to visit  
(a) Institute of Plasma Physics Hefei (China), 2000 – 2004  
(b) Institute of Optics & Fine Mechanics, Shanghai 2005 – 2008  
(ii) VISITING ASSOCIATE, INTER UNIVERSITY CENTRE FOR ASTRONOMY & ASTROPHYSICS PUNE (INDIA) 1997 – 2006
- Doctoral / post doctoral fellows
- Students (Give details)

16. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

| Sl. No. | Title of the Seminars/Conferences /Workshops                               | Name of the Convener  | Duration                       |
|---------|--|-----------------------|--------------------------------|
| 1.      | Micro-seminar on nonlinear phenomena                                       | Prof. Manoranjan Khan | June 30, 2011                  |
| 2.      | Training on 'Maintenance of Electronics Laboratory Instruments'            | Prof R. Bhar          | July 26 - 30, 2011             |
| 3.      | 80 <sup>th</sup> Birth Anniversary of Prof. M.R. Gupta, Visiting Professor | Prof. Manoranjan Khan | August 4, 2011                 |
| 4.      | Seminar on 'Nonlinear Phenomena'   | Prof R. Bhar          | 31 <sup>st</sup> January, 2013 |
| 5.      | Seminar on 'Laser and its Applications'                                    | Prof R. Bhar          | February 6, 2013               |

17. Code of ethics for research followed by the department: They must be regular in attendance. All research Scholar should help the concerned teacher during PG teaching/laboratories.

18. Student profile programme-wise (in the Current Semester):

| Name of the Programme | Applications received | Admitted<br>Male    Female | Pass percentage (w.r.t. last graduating batch)<br>Male    Female |
|-----------------------|-----------------------|----------------------------|--|
| Ph.D.                 | ~ 06                  | 1        1                 | NA   |

19. Diversity of students

| Name of the Programme | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|-----------------------|--|--|---|------------------------------------|
| Ph.D.                 | 10 %                                   | 90 %   |   |                                    |



## 20. Student progression

| Student progression             | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG                        | NA                          |
| PG to M.Phil./M.Tech.           | NA                          |
| PG to Ph.D.                     | NA                          |
| Ph.D. to Post-Doctoral          | 20%                         |
| Employed                        |                             |
| • Campus selection              |                             |
| • Other than campus recruitment | 80 %                        |
| Entrepreneurs                   | 20 %                        |

## 21. Present details of departmental infrastructural facilities with regard to

- Library: None
- Internet facilities for staff and students: available on sharing basis. All members and students can avail digital library facilities from Central Library of the University.
- Students' laboratories: one
- Research laboratories: one

## 22. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university: NIL
- from other institutions/universities: 08

## 23. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

At initial stage discussion made with stake holders and after that we generally seek opinion from experts by the process of Seminar and meeting etc.

## 24. List the distinguished alumni of the department/ Centre (maximum 10):

| Name                   | Present Position  |
|------------------------|---|
| Dr Susmita Sarkar      | Professor & Head, Applied Mathematics, Calcutta University            |
| Dr Samiran Ghosh       | Associate Professor, Applied Mathematics, Calcutta University         |
| Dr Avujit Bhattacharya | Scientist SO(SF), BARC, Mumbai  |
| Dr Banamali Roy        | Assistant Professor, Bangabasi College                                |
| Dr Debjani Dutta       | Assistant Professor, USA  |
| Dr Bejoy Bera          | Associate Professor (Rtd.), R.K. Mission College                      |
| Dr Chandra Das         | Assistant Professor, Dinabandhu College, Howrah                       |
| Dr Mukti Ranjan Jana   | Senior Scientist, Institute for Plasma Research, Gandhinagar, Gujarat |

## 25. Give details of student enrichment programmes involving external experts.

Centre for Plasma Studies organizes regular Seminar/ Workshop where students are also invited to participate.

## 26. List the teaching methods adopted by the faculty for different programmes: Overhead/ LCD Projectors, Display of diagrams for better understanding, demonstration of system

## 27. How does the centre ensure that programme objectives are constantly met and learning outcomes are monitored? From the feedback and performance of the students

## 28. Highlight the participation of students and faculty in extension activities: Students are participating for visit to national Laboratories and also in Industries.

## 29. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC).

- We have strong Research groups in the area of Plasma Physics, Nuclear Fusion and Fluid Dynamics, Dynamical Systems, Nonlinear Optics
- Weaknesses: No whole time Faculty position.

## 30. Future plans (in as much detail as possible):

- To involve more number of researcher interested in the area of Plasma Science and Technology.
- To create some experimental programme in the field of Plasma Science and its applications.

## **Centre for Studies in Latin American Literatures and Cultures (CSLALC)**

1. Name: Centre for Studies in Latin American Literatures and Cultures (CSLALC)
2. Year of establishment: 2009
3. Faculty to which attached: Faculty of Arts
4. Courses in collaboration with other universities, industries, foreign institutions, etc.:

The Centre for Studies in Latin American Literatures and Cultures collaborated with the Cornell University. U.S.A. and the University of Texas at El Paso, U.S.A. from January to May 2012 to conduct a certificate Video-conferencing course on “Bodies at the Border” in South Asia and the Americas .The course consisted of 14 two-hour lecture cum video-conferencing sessions. This was the first Videoconferencing course at JU to be held in collaboration with a foreign university.
5. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:

February 2009 and February 2013. Debra A. Castillo, Stephen H.Weiss Presidential Fellow, Emerson Hinchliff Professor of Hispanic Studies, and Professor of Comparative Literature at Cornell University visited The Centre for Studies in Latin American Literatures and Cultures (CSLALC) as a Resource Person in the Borders Workshop Series.

20th August to 1st September, 2012. Dr. Georg Wink of the Institute of Latin American Studies, Freie Universitat, Berlin, visited the Centre for Studies in Latin American Literatures and Cultures (CSLALC), Jadavpur University on a UGC Visiting Fellowship. He conducted a four day workshop from 22nd to 25th August on Brazilian Literature and the works of Machado de Assis. Over 25 PG students, Research Fellows and Faculty members participated in it. This was an extremely useful interaction as Dr. Wink made several presentations on Brazilian History, Society and Culture, conducted discussions, and also gifted valuable research material in the area. This interaction particularly led to considerable strengthening of the Brazilian component at the Centre.
6. Inter-institutional collaborative projects and associated grants received
  - a) National collaboration b) International collaboration

The Centre for Studies in Latin American Literatures and Cultures conducted a certificate Video-conferencing course on “Bodies at the Border” in South Asia and the Americas in collaboration with the Cornell University. U.S.A. and the University of Texas at El Paso, U.S.A. from January to May 2012. The course consisted of 14 two-hour lecture cum video-conferencing sessions. This was the first Videoconferencing course at JU to be held in collaboration with with a foreign university.

No grants received.

Infrastructural support from School of Education Technology, J.U.

The Centre for Studies in Latin American Literatures and Cultures(CSLALC) collaborated with The Indo Latin American Association in 2009, 2010, 2011 for organizing seminars.

The Centre for Studies in Latin American Literatures and Cultures(CSLALC) collaborated with the Indo Hispanic Society for organizing seminars. and talks.
7. Publications: See Annexure for details
8. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):

*Professor Kavita Panjabi* (Co-ordinator of CSLALC)

2011-2012 - Fellow at the Indian Institute of Advanced Studies, Shimla

2010 - Mario Einaudi International Studies Program: Research Initiative on Violence, Gender and Dislocation in South Asia and the Americas, Cornell University, U.S.A,  
2009 - International Institute of Social Studies (ISS), The Hague, Netherlands

*Dr. Sucheta Bhattacharya*

UKIERI Faculty Exchange Programme at University of Leicester in March ;  
CRASSH-Charles Wallace Fellowship, Cambridge University, Easter term.

*Mr. Parthasarathi Bhaumik*

2012 - Charles Wallace Fellowship

*Dr. Sayantan Das Gupta*

2011 - Visting Translation Fellowship, University of East Anglia

9. Faculty serving in

National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)

*Professor Kavita Panjabi* (Co-ordinator of CSLALC)

National Committees:

- a) Member of the Curriculum Development Committee for Women's Studies, formed by the Standing Committee on Women's Studies, UGC. (2010-12)
- b) Member of the Expert Committee on National Curriculum Framework for Adult Literacy, HRD Ministry, Govt. of India. (since 2010)
- c) Member of the M.Phil Steering Committee of the Centre for Studies in Social Sciences, Kolkata since 2010.
- d) On the Board of Trustees of Swayam, Kolkata, an organization working against violence against women across South Asia since 2009.
- e) On the Board of Trustees of Aman Charitable Trust, a national organization focusing on research and activism against violence in society since 2002.
- f) Fellow of The Asian Regional Exchange for New Alternatives (ARENA) since 2002.

Editorial Boards

- i. Editor, *Jadavpur Journal of Comparative Literature* since April 2013 .
- ii. Advisory Board of *Vislumbres*, a yearly journal supported by the Iberoamerican embassies and financed by the Spanish Embassy in India since its inception.
- iii. Advisory Board of *La Cultura Hispanica*, a biannual journal of the Indo-Latin American Association, Kolkata

10. Awards / recognitions received at the national and international level by

- Faculty

*Professor Kavita Panjabi*

2011-2012 – Fellowship at the Indian Institute of Advanced Studies, Shimla

11. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

February 2009 and February 2013 - Ongoing International Workshop Series on comparative study of approaches to Borders in Latin America and South Asia with students, teachers and research fellows: 2 workshops held. The first workshop was initiated by Prof. Debra Castillo, Departments of Romance Studies and Comparative Literature, Cornell University, U.S.A.

March 30th 2009: Talk entitled "Humour in Literature" by renowned Latin American author and scholar, Enrique Serna, organized by the CSLALC at the Dept. of Comparative Literature, JU.

April 16-20th 2009: Mexican Film Festival organized by CSLALC and The Department of Film Studies in collaboration with the Embassy of Mexico, New Delhi, in the

Buddhadev Bose Sabhagriha (D.S.A. Auditorium), 3rd Floor, UG. Science Building, Jadavpur University.

19th July 2009: Students' Seminar Poetry, Politics and Fantasy – from Chile to India organized by the CSLALC in collaboration with the Editorial Board of *La Cultura Hispánica*, (a journal of Hispanic Culture and Literature) at Jibanananda Sabhaghar (Paschimbanga Bangla Academy Complex).

1st February, 2010. Seminar on Prisons, Politics & Poetry: In Argentina and India, with Alicia Partnoy, Argentine poet and author of concentration camp *Testimonio*; *The Little School: Tales of Disappearance and Survival in Argentina* and renowned Bangla Poet, Author and Scholar Nabaneeta Deb Sen.

5<sup>th</sup> February, 2010 Round table discussion titled "Cities and Borders" with Mexican writers Margo Glantz, Cristina Rivera Garza and David Toscana, at Vivekananda Hall, J.U. The Introduction was given by Laura Emilia Pacheco, General Director/Publications Consejo Nacional para la Cultura y las Artes (Conaculta), México. 20th August, 2010: Talk on "The Poetry of Cesar Vallejo" by Peruvian scholar, Carlos A. Yrigoyen, at the Dept, of Comparative Literature, J.U.

21<sup>st</sup> August, 2010: Seminar on Peru: Antiquity and the Present organized by the CSLALC in collaboration with the Editorial Board of *La Cultura Hispánica*, (a journal of Hispanic Culture and Literature) at Jibanananda Sabhaghar.

24th and 25th of March, 2011. National Seminar on Indian and Latin American Modernities: Self, Revolution, Exile at Jadavpur University.

February 2012 - A series of 3 workshops on The 'Popular' in Latin American Culture.

19<sup>th</sup> March, 2012. Student seminar on Latin America: Literature of Politics, Politics of Culture.

30 March, 2012 Seminar - tribute to the Chilean poet Pablo Neruda .

20-22 February, 2013. International Seminar on "Prisms of Displacement: Across the Indian Sub-continent and Mexico-US Borders"

12. Highlight the participation of students and faculty in extension activities.

Students and faculty collaborate with The Indo Latin American Association and The Indo Hispanic Society for organizing seminars and talks.

13. Give details of "beyond syllabus scholarly activities" of the centre.

The CSLALC organizes national and international seminars at the department of Comparative Literature

The CSLALC organizes regular screening of Latin American Films and critical discussions are held by students and faculty around those films

The CSLALC organizes critical and theoretical discussions around performances put up by students based on Latin American Literature and culture.

14. Future plans of the department (in as much detail as possible):

Publication of a book arising out of the international Borders seminar organized in February 2013

Explore the possibility of having other video-conferencing courses with Cornell University, U.S.A or with Latin American Centres at other universities abroad. But this depends on the availability of a video-conferencing centre in the Faculty of Arts. Continuation of the Borders Workshop series with Prof Debra Castillo of Cornell University, U.S.A.

Explore the Possibility of a visiting fellowship for another Latin American Studies scholar from the Freie Universitat, Berlin

Augmenting the existing digital library of Latin American literary scholarship and cinema.

Organizing a National seminar , Students seminars and a Latin American Film festival

### **Rabindranath Studies Center**

1. Name of the Department/School/Centre: RABINDRANATH STUDIES CENTRE
2. Year of establishment: 2010
3. Faculty to which attached: University Centre, no specified faculty
4. Names of programmes offered: Seven ED courses, for students of the Faculty of Arts
5. Examination System: Semester
6. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors, etc.: Professor Syed Jamil Ahmed; Professor Radha Chakraborty; Dr. Martin Kaempchen; Sri Shailesh Parekh - all Visiting Faculty
7. Programme-wise Student Teacher Ratio: ED courses - 30:1
8. Research thrust areas as recognized by major funding agencies: Tagore Studies, Translation
9. Departmental projects funded and total grants received: Rs. 7 lakhs received from the Ministry of Culture, Government of India, for a translation project involving Rabindranath Tagore's plays
10. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features): See Annexure
11. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. See Annexure
12. Highlight the participation of students and faculty in extension activities. See Annexure
13. Give details of “beyond syllabus scholarly activities” of the department. See Annexure
14. Future plans of the department (in as much detail as possible):  
To increase the volume of both teaching and research, so that, eventually, it becomes possible to set up a Tagore Centre for Cultural Enquiry, which will be an interdisciplinary institute for carrying on a range of activities inspired by, but not restricted to, the life and work of Rabindranath Tagore.

## Centre for Rural & Cryogenic Technologies

### *Cryotechnology Division*

Cryogenics is defined as the science of producing ultra low temperature. Cryogenics covers low temperature (below  $-150^{\circ}\text{C}$  (123K) production, maintenance, measurement, control and its utilization for scientific investigation of phenomena, techniques and concepts occurring at or pertaining to low temperature..

The cryogenics has reached application level of high impact in fertilizer, steel, petrochemicals, material science, gas purification, environmental science, agricultural chemistry, food science, biology, chemicals and pharmaceutical science besides such sectors as defense, atomic energy and space science etc India lags far behind China and other advanced countries in cryogenic technology but for all round socio economic development of the country and national security promotion of cryogenic activities in all areas is a must

1. DST-Govt.of India Project of National Importance- Cryotechnology Division has started working on the R&D project on Development of a compact liquid nitrogen Plant unit of 7-10litre/hr capacity utilizing the successful conceptual design-Phase-II. The sanctioned project cost is approximately 50 Lakhs. Many of the critical component have been designed and fabrication has also been completed.

Gas Chromatograph is already installed in Gas Separation / analysis Laboratory room.

Design specification for Pressure Swing Adsorption System has been finalized and process is on for its procurement. Instrumentation & control system design has been started. Construction of Compressor zone, oil reservoir, Flywheel is in progress and is being monitored regularly. Junior Research Fellow under the project is recruited having M.E.(Chemical Engg) qualification

This work will be a great achievement towards cryogenic hardware development and curtailing import in the area of small nitrogen liquefier which has got good demand in India and neighboring countries.

Principal Investigator- Dr S .C.Sarkar

Co Investigator-N.R. Chakraborty

2. Expert Member-
  - i) Dr. Sarkar acted as an expert member of National Organising Committee on Cryogenics-24 held at Ahmedabad during January 2013 under Institute of Plasma Research
  - ii) Dr. Sarkar acted as an examiner for final examination of M.Tech at Cryogenic Engineering Centre IIT Kharagpur on 4-5<sup>th</sup> May 2012 and examined for dissertation. He also acted as an expert of Indian School of Mines (ISM) Dhandad for faculty requirement in fuel & mineral engineering department on July 11,2012
  - iii) Cryotechnology Div has been contacted as expert for the advice for the cryogenic activities of Aerospace Laboratory of Central Mechanical Engg, Research Institute-Durgapur
3. Invited Talk
  - a) Dr. S.C.Sarkar delivered a invited talk on Cryogenic Technology on 5<sup>th</sup> May 2012 at Cryogenic Engineering Centre IIT kharagpur for the students and faculty members of the centre. Mr N.R.Chakraborty accompanied him and assisted in the presentation
  - b) Dr. S.C.Sarkar also invited to deliver a speech on National Workshop on Convergence of Government Agencies and Industries for Funding in R & D July 26-27<sup>th</sup> 2012, at NIT, Durgapur.

#### 4. Participation

Participated in the AICTE – Confederation of Indian Industries(CII) University – Industry Congress held at IACS on 31<sup>st</sup> July on special invitation from CII.

Dr Sarkar attended the Executive Council meeting of the Indian Cryogenic Council held at the Variable Energy Cyclotron Centre, Kolkata on June 19, 2012.

#### 5. Paper Published

Two papers presented for the NSC-24 held in January-2013 at IPR-Gandhinagar

- i) D. Roy Chowdhuri, SC Sarkar: Advances in Separation Technology based on PSA
- ii) S. Giri & S C Sarkar: Use of Natural Gas as an Alternative Fuel

#### *Cryobiology Division*

Project Title: “Anti-sticking factors from caprine epididymal plasma: biochemical identity, role in sperm function and tumor biology with special reference to metastasis”

Project Title: “Biochemical Characteristics and Physiological Significance of a Novel Forward Motility Stimulating Protein and its potential for application”

#### Education & Training Programme

The centre conducts the following short-term courses of six months in under the West Bengal State Council of Vocational Education & Training:

1. Plumbing
2. Rural Electrician

### Centre for Sri Aurobindo Studies

1. Name: Centre for Sri Aurobindo Studies, Department of Philosophy, JU
2. Year of establishment : 2005
3. Faculty to which the Centre is attached : Arts
4. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance : See Annexure
5. List of senior visiting fellows, adjunct faculty, emeritus professors etc.: See Annexure
6. Publications: See Annexure for details
7. Details of patents and income generated: As the Centre is a research-oriented centre there is no scope of patent, but the Centre has earned Rs. 92,952/- as royalty from the publication of books.
8. Areas of consultancy and income generated: See Q. no.23
9. Faculty selected nationally/internationally to visit other laboratories/institutions/industries in India and Abroad:

*Professor Ratna Dutta Sharma*

- Visited the University of Amsterdam with ERASMUS MUNDUS EUROPE ASIA (EMEA) SCHOLARSHIP from 3<sup>rd</sup> Sept- 3<sup>rd</sup> Oct 2012

*Professor Madhumita Chattopadhyay*

- Was awarded the Charles Wallace India Trust Research Grant to visit the University of Liverpool in 2008
- Offered a course in Buddhist Epistemology at the Department of Indian Philosophy, Hiroshima University, Hiroshima, Japan under the long term JSPS Invitational Fellowship programme in 2011-12

10. Faculty serving in:

- a) National Committees
- b) International Committees
- c) Editorial Boards
- d) Any other

*Professor Indrani Sanyal*, Coordinator of the Centre  
National Committee

- UGC Expert in DRS/CAS programs of different universities, in the UGC Scheme for Epoch Making Social Thinkers of India, in Minor Research Programs in Eastern India, UGC Expert for the Advisory Committee of Kanchipuram College, Tamilnadu, UGC Expert for the Patkai Christian Missionary College, Nagaland, Utkal University, Bhubaneswar, Benaras Hindu University, UGC Expert for the Selection Committee for the award of post-doctoral research fellowships to women candidates, UGC expert for the Academic Staff College, NEHU, Shillong, Academic Staff College, Calcutta University.
- Member of the Selection Committee for the selection of teaching faculties as Chancellor's nominee, as Vice-chancellor's nominee in Calcutta University, North Bengal University, Burdwan University, Rabindra Bharati University, Kalyani University, Vidyasagar University, Indian Institute of Technology, Kharagpur, Indian Institute of Management, Kolkata, Jadavpur University.
- Expert member of the SYLFF Selection Committee, Jadavpur university.
- Member of the Examination Committee, Rabindra Bharati University, Calcutta University, member of the Board of Studies Visva Bharati,



Santiniketan, Rabindra Bharati University, Member of the PhD and research committee of Calcutta University, Burdwan University. External Member of the PhD Committee, University of Chennai, IIT, Kharagpur; member of the Syllabus Revision Committee, Presidency University, Kolkata.

- Coordinator, Syllabus Revision Committee, Jadavpur university.  
Editorial board  
Editor of *Jadavpur Journal of Philosophy*, Jadavpur university.

*Professor Ratna Datta Sharma*

National Committee

- Member, examination committees Visva-Bharati, Burdwan University, Rabindra Bharati University, Tripura University.
- Member, selection committees of Utkal University (2009), Tripura University (2010 & 2011)
- Member of the P.G. Board of Studies (2006-10) Kalyani University
- UGC Nominee of the DSA Advisory Committee for the Department of Philosophy, Utkal University, Bhubaneswar
- Member of the Ph.D Committee of Burdwan University  
Editorial board  
Member, editorial board, *Jadavpur Journal of Philosophy*

*Professor Madhumita Chattopadhyay*

National Committee

- Member of the UGC Review Committee for the XIth Plan to Burdwan University, August 2008
- Expert of the Screening Committee for the UGC Minor Research Projects in Philosophy, 2010, 2011, 2012.
- Member of the Advisory Committee for SAP Program in Philosophy of Magadh University, Bodhgaya, for five years since 2005 to 2009.
- Member of the Advisory Committee for SAP Program in Philosophy of North Bengal University, North Bengal, for five years since 2010.
- Member of the Syllabus Forming Committee in Philosophy of Sidho Kanho University, Purulia in 2012.
- Member of the Selection Committee for the post of Professor and Assistant Professor of Philosophy at Visva-Bharati, in 2011.
- Member of the Selection Committee for the post of Associate Professor and Assistant Professor of Philosophy at Assam University, in 2009 and 2013.
- Member of the BOS in Philosophy, Viswa Bharati, since 2011.
- Member of the BOS in Philosophy, Gour Banga University, since 2012.  
Editorial board  
Member of the Editorial Board, *Jadavpur Journal of Philosophy*  
Member of the Editorial board of the journal *Tattva O Prayog*

*Dr. Jhuma Chakraborty*

Member of the Editorial Board, *Jadavpur Journal of Philosophy*

*Dr. Atashee Chatterjee Sinha*

Member of the Editorial Board, *Jadavpur Journal of Philosophy*

*Dr. Aparajita Mukhopadhyay*  
 National Committee  
 Member of Examination Committee, Rabindra Bharati University  
 Editorial board  
 Member of the Editorial Board, *Jadavpur Journal of Philosophy*

*Sm Rubai Saha*  
 Member of the Editorial Board, *Jadavpur Journal of Philosophy*

*Sm Gargi Goswami*  
 Member of the Editorial Board of *Jadavpur Journal of Philosophy*

11. Faculty Recharging Strategies conducted: See Annexure
12. Seminars/Conference/Workshops organized and source of funding with brief details: See Annexure. All seminars are funded by UGC
13. Present details of departmental infrastructural facilities with regard to
  - a) Library: 400 books
  - b) Internet facilities for staff and students: Computer lab, 3 PCs, 01 Laptop, LAN Connection, Internet
14. Give details of student enrichment programmes:
  - Members of Sri Aurobindo Study Group meet weekly
  - Regularly conduct special lectures by distinguished faculties both National and International (see annexure2 & 3 for detail)
15. Briefly highlight contributions in generating new knowledge, basic or applied:  
 The Centre for Sri Aurobindo Studies focuses upon the holistic, interdisciplinary approach as it seeks to integrate the philosophical, literary, socio-political, yogic and various other aspects of his life and thought.  
 We propose to reread Sri Aurobindo and to put to practice his dynamic thoughts and world-views in generating newer life spirit among the ordinary people.  
 The Centre focuses upon Sri Aurobindo's wide sphere of thought, his catholic, comprehensive but analytic approach, his secular but outright nationalistic outlook.  
 Sri Aurobindo's notion of Yoga is to be explored, interpreted and communicated for self development and well-being of man as a community
16. Detail five major Strengths, Weakness, Opportunities and Challenges (SWOC) of the department:

#### *Strengths*

- Strength of members who come from different disciplines and different institutions and colleges
- It is a platform for open discussion, Centre is not bound by any rigid ideology.
- Different interactive academic programs are organized to enable student participation
- It is an academic forum.
- Regular seminars, workshops, conferences are organized for exchange of views.

#### *Weaknesses*

- Centre lacks sufficient fund for carrying on its regular activities.
- Centre has not received any sanction for teaching post. To carry on our regular academic activities and for conducting courses teaching faculties are required.
- Centre has a publication program for which we need non-teaching assistants. But Centre has no grant for such posts.

### *Opportunities*

- Centre provides ample opportunities to students and researchers for interaction with renowned scholars in the field from all over India and abroad.
- There is enough scope for implementing Sri Aurobindo's thought about education and yoga to practice.
- Centre has a good collection of books.
- Centre organizes regularly different programs encouraging student participation like panel discussions, elocution competitions etc.
- The Centre has set up a computer lab of its own consisting of three PCs and one Laptop along with all necessary peripherals. All the computers are connected with LAN. Internet facilities are available to all the scholars and researchers.

17. Future plans: The Centre for Sri Aurobindo Studies intends to make intense study and research on various aspects of Sri Aurobindo's thought and to disseminate his ideas through educational community to society as a whole.

The rationale is to inculcate among the citizen the true spirit of Indian culture so that they can contribute to world civilization with a new foundation of dynamic spirituality that can deal with the contemporary socio-ethical crisis effectively and courageously.

To conduct out-reach activities on the ideals and thoughts of Sri Aurobindo for the benefit of society as a whole.

To organize public meetings in small groups for the arousal of general awareness for strengthening communal harmony.

## Centre for Surface Science

Department of Chemistry, Jadavpur University, Kolkata-700 032

Co-ordinator: Prof. S. C. Bhattacharya

The activities of the Centre by way of the research works and academic interactions of its members have been significant in the years 2008-2013. These are briefly presented in what follows.

### *Research Activities*

Research works on the following topics were undertaken:

1. Micelle formation of surfactants in aquo and aquo-organic media by calorimetric, tensiometric, fluorimetric and conductometric methods
2. Synthesis of nanoparticles in micellar, microemulsion and sub phase of Langmuir trough.
3. Clouding of surfactants and polymers; amphiphile mutual interaction.
4. Physicochemical behaviors of polymer in solution and in solvent depleted states.
5. Coacervate formation by mixing oppositely charged surfactants, polymers, etc.
6. Self-aggregation of surfactants with respect to coacervation by way of interaction with polymers.
7. Physicochemical studies on solution behavior of triblock copolymers pluronics and their interactions with surfactants.
8. Photophysical studies of dyes in micelles and reverse micelles
9. Photophysical studies in organized media and at interfaces.
10. Laser Induced Optoacoustic Spectroscopy, Laser Spectroscopy, Steady-state and Time-resolved fluorometric study of the photophysical and photochemical processes in homogeneous as well as in microheterogeneous environments.
11. Theoretical modeling and simulations of photophysical/photochemical processes. Fluorescence sensing of trace materials.
12. Interaction of surfactants and lipids with polymer and biopolymers in solution and at interfaces.
13. Interfacial and interactional properties of insoluble monolayers with Langmuir Balance.

Elaborate physicochemical studies of the above topics have been made. The results have been interpreted in terms of theories and physicochemical concepts. The synthesis of nanoparticles of different types has been made in micelles, reverse micelles and using other templates. The isolation and characterization employing various physical methods have been made. Interactions of amphiphiles with polymers like polyvinylpyrrolidone, inulin, gelatin, bovine serum albumin (BSA), and triblock copolymers (pluronic) have been studied in details and physicochemical characterization of products formed has been also made.

The photophysical properties of dyes have been studied to estimate the aggregation states of micelles and reverse micelles as well to estimate the activity levels of the water pool in reverse micelles and microemulsions. The generation of photovoltage and photocurrent in liposomes containing dyes has been also demonstrated. The physicochemical properties viz., transport, conductance, activation energy for conductance, structural features, stability, etc. of bilayer lipid membranes formed under various environmental conditions have been also investigated in detail. In addition to this, electron transfer reactions as well as oxidation of surfactants by metal ion oxidants have been investigated.

The works had done have yielded a good number of publications, which are given in the Appendix.

*Projects*

Project: 1. “”Spectroscopic Investigation of Pharmaceutically Significant Pyrazoline Derivatives in Organized Media. CSIR.

Project: 2. Physicochemical Studies on Catanionic Surfactants and Synthesis of Nanoparticles: DST.

Number of Current Research Scholars: 5

List of publications (international & national level) during the last 5 years (2009 – 2013)

## Center for Translation of Indian Literatures

1. Name: CENTRE FOR TRANSLATION OF INDIAN LITERATURES
2. Year of establishment: 2007
3. Faculty to which attached: Faculty of Arts, Department of Comparative Literature.
4. Names of programmes offered: Certificate Course in Translation as a Skill
5. Interdisciplinary programmes being conducted and other departments involved: CENTIL is attached to the Department of Comparative Literature but functions with the active collaboration of faculty and students from the departments of Bangla, English, Sanskrit and Comparative Literature as well as other schools (such as the School of Women's Studies), centers and departments of Jadavpur University.
6. Courses in collaboration with other universities, industries, foreign institutions, etc.:  
The certificate course in Translation as a Skill involves experts from various universities and institutions and sees substantial industry linkages. Institutions from which experts have been involved in adding value to the course include:  
*Indian Universities*  
(a) University of Calcutta,  
(b) Rabindra Bharati University,  
(c) Visva-Bharati University,  
(d) Utkal University,  
(e) Jamia Milia Islamia,  
(f) University of Delhi,  
(g) Central University of Rajasthan, Kishengarh  
*Foreign Universities*  
(a) University of East Anglia, UK  
*Other institutions*  
(a) Sahitya Akademi,  
(b) Bhartiya Bhasha Parishad,  
(c) American Association of Indian Studies  
(d) Kolkata Malayalee Samajam  
(e) Peoples' Linguistic Survey of India
7. Examination System: Semester
8. Participation of the department in courses offered by other departments:  
The Coordinators and the Academic Committee members are drawn from various departments and they all contribute to the academic life of the university across departments and disciplines. They have been known to contribute to courses in the departments of English, Comparative Literature, Sanskrit and Bangla, as well as in the School of Women's Studies and the School of Adult and Continuing Education, Jadavpur University. Moreover, many members of CENTIL are also involved with interdisciplinary university projects such as those under the UGC-University with Potential for Excellence Scheme.
9. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance: No permanent faculty positions.
10. List of senior Visiting Fellows, adjunct faculty, emeritus professors, visiting professors:  
Professor K Satchidanandan (Sahitya Akademi)  
Professor Ramkumar Mukhopadhyay (Sahitya Akademi; now with Visva-Bharati)  
Professor Valerie Henitiuk (University of East Anglia)  
Professor Harish Trivedi (Delhi University)  
Professor Kyoko Niwa (Tokyo University)  
Professor Jasbir Jain (Central University of Rajasthan)

- Professor Anisur Rahman (Jamia Milia Islamia)  
 Professor Ansu Kar (Sahitya Akademi)  
 Dr Gargee Talapatra (Sahitya Akademi)  
 Dr Nilanjana Bhattacharya (Visva-Bharati)  
 Professor Subir Dhar (Rabindra Bharati University)  
 Dr Sarmistha Duttgupta (Seagull; now with Ebong Alap)  
 Dr Mandira Sen (Stree)  
 Dr Lakshmi Holmstrom (University of East Anglia)
11. Percentage of classes taken by temporary faculty – programme-wise information:  
 All classes are taken on a freelance basis by faculty from various departments and by experts from the industry as there is no dedicated post for CENTIL. A dedicated professorial post would be most helpful and would give an exponential boost to the work CENTIL has been doing and would allow us to offer a plethora of new courses.
  12. Research thrust areas as recognized by major funding agencies:  
 Indian literatures and their translation
  13. Number and names of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project titles and grants received project-wise.
    - a) Aveek Majumder and Sayantan Dasgupta (Coordinators). Rs 5,00,000 from the UGC for offering a career-oriented certificate course in “Translation as a Skill.”
    - b) Sayantan Dasgupta, c. Rs 10,00,000 for PROJECT ANUVAD, undertaken as part of the UGC-UPE Scheme of Jadavpur University.
  14. Inter-institutional collaborative projects and associated grants received
    - National collaboration
      - i) Collaboration with Peoples’ Linguistic Survey of India in its Bhasa Project.
      - ii) Regular collaboration with Sahitya Akademi for course on ‘Translation as a Skill’.  
 Two translation workshops held in collaboration and with financial support from the Sahitya Akademi.
      - iii) Sahitya Akademi collaborating with CENTIL and funding several special sessions of course on ‘Translation as a Skill’ in the current session (2013-2014).
    - International collaboration
      - i) Professor Valerie Henitiuk, Director of the British Centre for Literary Translation, University of East Anglia, delivered a lecture and visited the Centre to explore collaboration possibilities.
      - ii) Professor Kate Griffin of the British Centre for Literary Translation, University of East Anglia, visited the Centre to explore collaboration possibilities.
      - iii) An International Translation Autumn School is being organized by CENTIL in collaboration with the University of East Anglia, Western Sydney University and the CAS in Comparative Literature, Jadavpur University.
  15. Departmental projects funded and total grants received. (Give details.)  
 A one-time seed grant of Rs 5,00,000 was mobilized by CENTIL for offering its certificate course. Funding has also been mobilized from the Sahitya Akademi for the Autumn School scheduled for September, 2013.
  16. Research facility/centre run by the Dept./school/centre which has:
    - state recognition
    - national recognition
    - international recognition

CENTIL’s research and archival efforts and achievements have been recognized by bodies of national and international importance, which have been collaborating with us since the very inception of the Centre. Our collaborators include, among others, the

Sahitya Akademi, the University of East Anglia, and the Bhartiya Bhasa Parishad. We are currently collaborating with the University of East Anglia.

17. Special research laboratories sponsored by / created by industry or corporate bodies:  
CENTIL has been building an archive of orature and literature from North Bengal and northeast India under the aegis of the UGC-UPE Scheme of Jadavpur University.
18. Publications:
  - \* Number of papers published in peer reviewed journals (national / international) 2
  - \* Monographs 1
  - \* Chapters in Books 3
  - \* Edited Books 2
  - \* Books with ISBN with details of publishers2 (Jadavpur University)
  - \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
  - \* Citation Index – range / average
  - \* SNIP
  - \* SJR
  - \* Impact Factor – range / average
  - \* h-index
19. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad (give details):  
International Comparative Literature Association Triennial Congress at the Sorbonne, Paris, in July 2013. Sayantan Dasgupta, Coordinator, was selected for the Congress and presented three papers there. He also visited St Andrews University, Scotland, to explore the possibility of collaborations. Awarded the Charles Wallace Fellowship for stay and work at the British Centre for Literary Translation, University of East Anglia.
20. Faculty serving in
  - a) National committees b) International committees c) Editorial Boards d) any other (please specify and give details, including the name of the committee/s, position/s held, duration, etc.)
    - i) One of the Coordinators, Dr Sayantan Dasgupta, is currently Executive Council member and Secretary of the Comparative Literature Association of India.
    - ii) He is also on the Editorial Board of edhvani, a peer-reviewed e-journal published from the University of Hyderabad.
    - iii) He is Editorial Board member of Jadavpur Journal of Comparative Literature
21. Student projects
  - percentage of students who have done in-house projects including inter-departmental projects: 100%. All students are involved in workshops conducted in collaboration with other universities/ organisations.
  - percentage of students doing projects in collaboration with other universities / industry / institute: 100%. All students are involved in workshops conducted in collaboration with other universities/ organisations.
22. Awards / recognitions received at the national and international level by
  - Faculty  
Charles Wallace India Trust Fellowship at the British Centre for Literary Translation, University of East Anglia, UK.
  - Doctoral / post doctoral fellows
  - Students (Give details)



23. Seminars/Conferences/Workshops organized and the source of funding (national / international) with brief details (mention any notable features):

- (a) Nepali-Bangla-English translation workshop on the Tamang Selo, Madalay Geet and Lahari-Sawai, conducted under the aegis of Project Anuvad of the UGC-UPE Scheme (Jadavpur University) August 27-30 (2012). Resource persons Kabita Lama (Associate Professor of Nepali Literature and Language, Sikkim University), Ghanashyam Nepal (Professor of Nepali, North Bengal University), Siddharth Rai (Teacher, Mirik Higher Secondary School), and Rita Ghosh Roy (Retd. Professor of English, North Point College, Darjeeling) collaborated with translators in English and Bangla.
- (b) Editing Workshop for Lahari-Sawai translations conducted under the aegis of Project Anuvad of the UGC-UPE Scheme (Jadavpur University) (November 9, 2012).
- (c) Translation workshop on the Lahari Sawai conducted under the aegis of Project Anuvad of the UGC-UPE Scheme (Jadavpur University) (January 28-31, 2013). Resource persons Gokul Sinha (Retd Professor, Siliguri College), Dashrath Kharel (Professor of Nepali, Namchi College, Sikkim), and Sadeep Pradhan, (Assistant Professor of Nepali, Southfield College, Darjeeling) collaborated with translators in English and Bangla.
- (d) Rajbansi-Bangla-English annotation and translation workshop conducted under the aegis of Project Anuvad of the UGC-UPE Scheme (Jadavpur University) (March 12-14, 2013). Resource persons Taran Singha (Performing artist), Paresh Chandra Roy (Asst. Headmaster, Shibmandir High School, Siliguri), Dipak Kumar Roy (Asst. Professor, North Bengal University) and Dinesh Roy (Folklore researcher) collaborated with translators in English and annotators in Bangla.
- (e) Lepcha-Bangla translation workshop in collaboration with the Sahitya Akademi (November 17-21, 2008).
- (f) Mising-Bangla translation workshop in collaboration with the Sahitya Akademi (January 27-29, 2010).

We would like to emphasize that all these workshops saw active participation of students. In all these cases, it was our students who constituted the bulk of the translators; they worked with respective language experts using our collaborative translation model and produced an archive of key bhasa texts in English/ Bangla translation. Several of these translations have been published, while many more are being prepared for publication.

24. Code of ethics for research followed by the department: The fruits of research are available to scholars for personal, non-commercial use in their research.

25. Student profile programme-wise (in the Current Semester):

| Name of the Programme<br>(refer to question no. 4) | Applications<br>received | Admitted |        | Pass percentage (w.r.t. last<br>graduating batch) |        |
|--|--------------------------|----------|--------|---|--------|
|  |                          | Male     | Female | Male  | Female |
| Certificate course in Translation<br>as a Skill    | c.200                    | c.10     | c.20   | c.75%   | c.75%  |

26. Diversity of students

| Name of the<br>Programme                        | % of students<br>from the same<br>university | % of students from<br>other universities<br>within the State | % of students from<br>universities outside<br>the State | % of students<br>from other<br>countries |
|---|--|--|---|--|
| Certificate course in<br>Translation as a Skill | c.20%  | c.79%  | --  | 1%                                       |

27. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

1 student has cleared Civil Services and is currently posted; several students have cleared

- NET in different subjects.
28. Present details of departmental infrastructural facilities with regard to
    - a) Library: Available. There is a special collection for CENTIL students.
    - b) Internet facilities for staff and students: available
    - c) Total number of class rooms: no dedicated classroom. CENTIL uses a classroom of the Arts building for its evening classes.
    - d) Class rooms with ICT facility
    - e) Students' laboratories: Available.
    - f) Research laboratories: Available.
  29. Does the department obtain feedback from
    - faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes. This feedback is utilized by restructuring the courses accordingly.
    - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes. This feedback is utilized by restructuring the courses accordingly and by changing the list of lecturers.
    - alumni and employers on the programmes offered and how does the department utilize the feedback? Yes. This feedback is utilized by restructuring the courses accordingly.
  30. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.  
 The following are among those who have delivered special lectures for students:  
 Professor K Satchidanandan (Sahitya Akademi)  
 Professor Ramkumar Mukhopadhyay (Sahitya Akademi; now with Visva-Bharati)  
 Professor Valerie Henitiuk (University of East Anglia)  
 Professor Harish Trivedi (Delhi University)  
 Professor Kyoko Niwa (Tokyo University)  
 Professor Jasbir Jain (Central University of Rajasthan)  
 Professor Anisur Rahman (Jamia Milia Islamia)  
 Professor Ansu Kar (Sahitya Akademi)  
 Dr Gargee Talapatra (Sahitya Akademi)  
 Dr Nilanjana Bhattacharya (Visva-Bharati)  
 Professor Subir Dhar (Rabindra Bharati University)  
 Dr Sarmistha Duttagupta (Seagull; now with Ebong Alap)  
 Dr Mandira Sen (Stree)  
 Dr Lakshmi Holmstrom (University of East Anglia)
  31. List the teaching methods adopted by the faculty for different programmes.  
 CENTIL offers a certificate course that is largely practical and vocational in nature. Thus, our pedagogy depends less on theory and more on practical classroom-based and laboratory-based practice. The workshop module is particularly relevant to our course and students generally participate in a number of live translation workshops as part of the course and benefit from interacting on a personal basis with leading translators and scholars.
  32. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?  
 CENTIL does so through regular dialogue and interaction with students on a personal level as well as over social networking sites.
  33. Highlight the participation of students and faculty in extension activities.  
 CENTIL students and faculty are actively involved in outreach programmes and in extending the realms of education beyond the physical boundaries of the university. We

strive constantly to make a difference to society at large. Thus, most of our projects have concentrated on smaller and endangered languages; our students and associates have been active in field work, documenting and archiving oral and literary texts from communities that have been hitherto largely marginalized. Our efforts have been recognized by the Sahitya Akademi, the Peoples' Linguistic Survey of India and the UGC, all of which have either collaborated with us or supported us with funding.

34. Briefly highlight contributions in generating new knowledge, basic or applied. Our workshops and projects have resulted in publications that are widely disseminated. These include publications by the Sahitya Akademi and the Comparative Literature Association of India in its peer-reviewed journal. A number of publications are forthcoming.

35. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

*Strengths*

Active student participation, small and committed team, collaboration of the Department of Comparative Literature and the Faculty of Arts in general, network of experts all over India, culture of translation at Jadavpur University.

*Weaknesses*

No full-time faculty, no full-time physical office space.

*Challenges*

India's linguistic diversity, the negative effects of globalisation that tend to blank out marginalized cultures.

36. Future plans (in as much detail as possible):

CENTIL plans to expand into newer areas and offer newer courses. There is an immense scope for translation of Indian literatures. There are so many cultures and languages most people in India are totally oblivious to. We also plan to play an instrumental role in establishing best practices in the translation industry in India. Thus, higher degrees, including diplomas, are part of our plans.

However, we can only offer new courses with the availability of full-time faculty (at least one professor) and an office space of our own.