Department of Chemistry

1. Name of the department: Chemistry

2. Year of Establishment: General- 1965

3. Names of Programmes/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): UG (General)

4. Names of Interdisciplinary courses and the departments/units involved: Environmental Studies involving all departments

5. Annual/ semester/choice based credit system (programme wise): Annual Examinations following University Curriculum i.e. Part-I, Part-II & Part-III.

6. Participation of the department in the courses offered by other departments: None

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: N.A.

8. Details of courses/programmes discontinued (if any) with reasons: N.A.

9. Number of Teaching posts

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professors</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Associate Professors</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>Asst. Professors</td>
<td>02</td>
<td>02</td>
</tr>
</tbody>
</table>
10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc..)

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Designation</th>
<th>Specialization</th>
<th>No. of Years of Experience</th>
<th>No. of Ph.D. Students guided for the last 4 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kakoli Banerjee</td>
<td>Ph.D., M.Sc.</td>
<td>Assistant Professor</td>
<td>Analytical Chemistry</td>
<td>8yrs</td>
<td>Nil</td>
</tr>
<tr>
<td>Santarupa Thakurta</td>
<td>Ph.D., M.Sc.</td>
<td>Assistant Professor</td>
<td>Inorganic Chemistry</td>
<td>4 years</td>
<td>Nil</td>
</tr>
<tr>
<td>Sipra Roy</td>
<td>Ph.D., M.Sc.</td>
<td>Part-time Lecturer</td>
<td>Inorganic Chemistry</td>
<td>6yrs</td>
<td>Nil</td>
</tr>
</tbody>
</table>

11. List of senior visiting faculty: None

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: theoretical-40%, practical- 50%


14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: One Laboratory Attendant

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG: Teaching faculty with Ph.D. and M.Sc.- 3

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: None

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: None

18. Research Centre /facility recognized by the University: N.A.

19. Publications: see Annexure
a) Publication per faculty
Number of papers published in peer reviewed journals (national / international) by faculty and students
Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
Monographs
Chapter in Books
Books Edited
Books with ISBN/ISSN numbers with details of publishers
Citation Index
SNIP
SJR
Impact factor
h-index

20. Areas of consultancy and income generated: None

21. Faculty as members in
   a) National committees b) International Committees c) Editorial Boards: None

22. Student projects
   a) Percentage of students who have done in-house projects including inter departmental/programme: None
   b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: None

23. Awards / Recognitions received by faculty and students

<table>
<thead>
<tr>
<th>Serial No.</th>
<th>Award</th>
<th>Name</th>
<th>Topic</th>
<th>Date of Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ph.D.</td>
<td>Santarupa Thakurta</td>
<td>Synthesis and characterisation of a few mono, di-or polymeric metal coordination complexes</td>
<td>2010 from Jadavpur University</td>
</tr>
<tr>
<td>2</td>
<td>Ph.D.</td>
<td>Sipra Roy</td>
<td>Studies on Synthesis and Structure of Cationic Ruthenium(II) Complexes and Their Efficiency as Catalysts for Transfer Hydrogenation.</td>
<td>2008 from IIT, KGP.</td>
</tr>
</tbody>
</table>
Dr. Kakoli Banerjee is a Life Member of Indian Association for Nuclear Chemistry and Allied Scientists (IANCAS)

24. List of eminent academicians and scientists/ visitors to the department

<table>
<thead>
<tr>
<th>Serial No</th>
<th>Name &amp; Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dr. Rupali Gangopadhyay, Research Associate, IACS, Kol-700032</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Sanjay Bhar, Associate Professor, Dept. of Chemistry, Jadavpur University, Kol- 700032.</td>
</tr>
<tr>
<td>3</td>
<td>Prof. Susanta Lahiri, Saha Institute of Nuclear Physics</td>
</tr>
<tr>
<td>4</td>
<td>Prof. Abhijit Saha, IUC-DAE</td>
</tr>
</tbody>
</table>

25. Seminars/ Conferences/ Workshops organized & the source of funding:
   a) National: None  
   b) International: None

26. Student profile programme/course wise:

<table>
<thead>
<tr>
<th>Name of the Course/ programme (refer question no. 4)</th>
<th>Applications received</th>
<th>Selected</th>
<th>Enrolled</th>
<th>Pass percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-2014</td>
<td>-</td>
<td>48 23</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>2012-2013</td>
<td>-</td>
<td>69 19</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

*M = Male  
*F = Female

Admission is open to candidates with pass percentage

27. Diversity of Students

<table>
<thead>
<tr>
<th>Name of the Course</th>
<th>% of students from the same state</th>
<th>% of students from other States</th>
<th>% of students from abroad</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.Sc. General</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Data not available
29. Student progression

<table>
<thead>
<tr>
<th>Student progression</th>
<th>Against % enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG to PG</td>
<td>No records</td>
</tr>
<tr>
<td>PG to M. Phil.</td>
<td></td>
</tr>
<tr>
<td>PG to Ph. D.</td>
<td></td>
</tr>
<tr>
<td>Ph.D. to Post-Doctoral</td>
<td></td>
</tr>
</tbody>
</table>

- Employed
  - Campus selection
  - Other than campus recruitment

- Entrepreneurship/Self-employment

Our students are often absorbed in various industries in R&D wing.

30. Details of Infrastructural facilities

a) Library: The department has a library with a collection of about 75 books. The specimen copies of the teachers are also given to the students.
b) Internet facilities for Staff & Students: Yes, the department has one computer with internet facility
c) Class rooms with ICT facility: None
d) Laboratories: Yes, Specious Lab accommodates 40 students, good stock of Chemicals, Annual Stock maintenance, Instrument room.

31. Number of students receiving financial assistance from college, university, government or other agencies: None

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts: Yes, (Last two years)

1. Popular Scientific lectures by eminent scientists
2. Magic show with science with faculty from Birla Institute of Technological Museum

33. Teaching methods adopted to improve student learning:

- Module-wise syllabus distribution
- Teaching plan maintained
- Study material prepared by the Faculty
- Students are guided by the Faculty to prepare wall magazines, participation in scientific quiz, debates etc.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Academic visit to SINP & Academic Tours.

35. SWOC analysis of the department and Future plans

**Strength**

- Highly Qualified Faculty
- Well maintained, well stocked lab
- Digital record maintenance of stock, Academic results, Purchase, Student profile, & Departmental meetings.
- Annual Programme which includes visit to esteemed scientific Institutions like SINP, BITM, and Science City.

**Weakness**

- Shortage of laboratory attendants,
- Maintenance of building as well as water pipelines.

**Opportunity**

Opening Honours curriculum with proper infrastructure and faculty in specialised fields.

**Challenges**

Motivating students to get interested in the subject considering the fact that in this hinterland many are first generation learners and find the subject challenging.

**Annexure: Publications**

**Dr. Santarupa Thakurta:**

5 publications in peer reviewed international journals:


