Department of Computer Science

1. Name of the Department: Computer Science


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

4. Names of Interdisciplinary courses and the departments/units involved: One of the faculties of Dept of Computer Science (Amitava Sarder) takes the responsibility of conducting both theoretical and practical classes of ‘Information Technology and Its Application in Business’ of Dept. of Commerce. The faculties of Dept. of Computer Science also conduct ‘Basic Preliminary Courses on Use of Computers’.

5. Annual/ semester/choice based credit system (programme wise): Annual System (under affiliating system)

6. Participation of the department in the courses offered by other departments: Regular classes of ‘Information Technology and Its Application in Business’ of the Dept. of Commerce is conducted by Amitava Sarder of Dept. of Computer Science. He also acts as the internal examiners of corresponding University practical examinations.

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

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>01</td>
<td>01</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>Sumana Bandyopadhyay</td>
<td>M. Sc.</td>
<td>Assistant Professor</td>
<td>Computer Science</td>
<td>05</td>
<td>Nil</td>
</tr>
<tr>
<td>Amitava Sarder</td>
<td>M.C.A.</td>
<td>Part-Time Lecturer</td>
<td>Computer Application</td>
<td>06</td>
<td>Nil</td>
</tr>
<tr>
<td>Paramita Dey</td>
<td>M. Sc.</td>
<td>Guest Faculty</td>
<td>Computer Science</td>
<td>02</td>
<td>Nil</td>
</tr>
<tr>
<td>Biswanath Saha</td>
<td>M. Sc.</td>
<td>Guest Faculty</td>
<td>Electronics</td>
<td>05</td>
<td>Nil</td>
</tr>
</tbody>
</table>

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:
   1. Paromita Dey, a guest faculty of our Dept., takes 18% of total theory classes and 19% of total practical classes.
   2. Biswanath Saha, another guest faculty of our Dept. takes usually 5% of total theoretical classes and 19% of total practical classes.

13. Student -Teacher Ratio (programme wise): 2.5 (for Honours course) and 4.75 (for General courses)

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Sanctioned post is one, but remained vacant.

15. Qualifications of teaching faculty with D.Sc/ D.Litt/ Ph.D/ MPhil / PG: All the teaching faculties are PG.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: N.A.
18. Research Centre /facility recognized by the University: Nil

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: N. A.

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

22. Student projects: Nil
   a) Percentage of students who have done in-house projects including inter departmental/programme: Nil
   b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: Nil

23. Awards / Recognitions received by faculty and students: Nil

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

25. Seminars/ Conferences/Workshops organized & the source of funding: Nil.
   a) National: Nil b) International: Nil
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 (Hons.)</td>
<td>30</td>
<td>14</td>
<td>01</td>
<td>Not yet completed</td>
</tr>
<tr>
<td>2013-2014 (Gen.)</td>
<td>-</td>
<td>-</td>
<td>14</td>
<td>05</td>
</tr>
<tr>
<td>2012-13 (Hons.)</td>
<td>35</td>
<td>10</td>
<td>04</td>
<td>86</td>
</tr>
<tr>
<td>2012-2013 (Gen.)</td>
<td>-</td>
<td>-</td>
<td>16</td>
<td>06</td>
</tr>
</tbody>
</table>

*M = Male   *F = Female

#: Every applicant who qualifies University norms is included in the merit list through on-line admission. As per intake capacity approved by Calcutta University students are enrolled strictly on merit basis.

$ Results pertains to Part-III (Hons)

27. **Diversity of Students:** All students belonging to both Honours and General courses come from the same state.

<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>Honours &amp; General</td>
<td>100</td>
<td>Nil</td>
<td>Nil</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.?:** Actually there exists students being engaged in Defense service, Software Professionals, etc. and achieved in competitive exam like JECA in each of the previous years, but Dept. has failed to keep track of the exact number.

29. **Student progression**

<table>
<thead>
<tr>
<th>Student progression</th>
<th>Against % enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG to PG</td>
<td>57%</td>
</tr>
<tr>
<td>PG to M.Phil.</td>
<td>Nil</td>
</tr>
<tr>
<td>PG to Ph.D.</td>
<td>Nil</td>
</tr>
<tr>
<td>Ph.D. to Post-Doctoral</td>
<td>Nil</td>
</tr>
</tbody>
</table>
30. Details of Infrastructural facilities

a) Library: Aside from the central library, the dept maintains a rich collection of books at its own disposal. The total number of books in the departmental library is almost 150.

b) Internet facilities for Staff & Students: Internet facility is available mainly for departmental staffs, but whenever necessary students are allowed to take this opportunity.

c) Class rooms with ICT facility: Personal Computers, Spreadsheets, Word Documents, equipments for power point presentation, etc. are available for use of students.

d) Laboratories: The department has at its disposal two laboratories; one solely for Honours students consisting of 14 PCs and another is dedicated for general students and equipped with 7 PCs.

31. Number of students receiving financial assistance from college, university, Government or other agencies: The Highest scorer of each year of the three year Hons. Course gets full fees free according to the norm of University of Calcutta.

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts: Nil

33. Teaching methods adopted to improve student learning: Aside from interactive classes and adequate number of practical classes, faculties sometimes take the help of Internet facility and power point presentation.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Students often join to the activities of N.S.S group of college.

35. SWOC analysis of the department and Future plans:
Strength

- Department has two laboratories equipped with sufficient number of PC with updated software packages.
- Students get help from departmental library, which is enriched with over 150 books covering all aspects of their syllabus and of outward knowledge.
- If required they are assisted by internet facility.
- As the syllabus of Hons. students includes practical of electrical equipments, dept. of Electronics is well equipped with different instruments and they are taught in collaboration of the dept. of Electronics.
- The ratio of student to teacher is not so high; therefore, students get immense scope for interactive teaching method and personal interaction with the faculties.
- Dept. often conducts departmental meetings and according to the resolutions, they perform counseling on the students, so that they become aware of the opportunities of further scope of studies and job prospects.

Weakness:

- Dept. is unable to provide on-campus facility to its students till now.
- Though the Dept. is still incapable of organizing seminar/workshop etc., but faculties usually keep track of the seminars or workshops being conducted by different colleges or universities or nationalized Institutions. The Dept. often encourages students to join these types of programmes.

Challenges:

- Dept. lacks sufficient number of permanent faculties.
- Dept. lacks technical assistant, so taking practical classes or conducting university practical examinations often become a challenge.
- Recently there is a tendency of students going towards various engineering courses. Therefore, it becomes a challenge to the Dept. to attract students and make them aware regarding the prospects of the course offered here.
- Dept. is determined to conduct seminar/workshop in near future.
Annexure: Publications

Sumana Bandyopadhyay


