

Department of CHEMISTRY

1. Name of the Department & its year of establishment -**CHEMISTRY, 1966**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) - **UG**
3. Interdisciplinary courses and departments involved – **ENVIRONMENTAL SCIENCE, GENNERIC ELECTIVE IN CHEMISTRY.**
4. Annual/ semester/choice based credit system - **CBCS**
5. Participation of the department in the courses offered by other departments –
6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

| | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | 00 | 00 |
| Associate Professors | | 01 |
| Asst. Professors | 07 | 07 |

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. students guided for the last 4 years |
|---------------------|-------------------|-----------------|----------------|----------------------------|---|
| Dr.A.Dash | M.Sc, Ph.D | Reader | Inorganic | 33 | |
| Dr.M.Mohapatra | M.Sc,M.Phil, Ph.D | Associate Prof. | Organic | 28 | |
| Dr.P.K.Padhi | M.Sc, Ph.D | Reader | Inorganic | 30 | |
| Sri.P.K.Swain | M.Sc,Ph.D | Reader | Organic | 29 | |
| Dr.A.K.Kar | M.Sc,M.Phil,Ph.D | Lect.(GR-A) | Physical | 26 | |
| Dr. Mrs.S.Pattanaik | M.Sc | Lect.(GR-A) | Physical | 26 | |
| Mrs.A.Behera | M.Sc | Lect(GR-A). | Organic | 25 | |
| Dr.Mrs.S.Mishra | M.Sc,M.Phil, Ph.D | Reader | Organic | 17 | |

8. Percentage of classes taken by temporary faculty – programme-wise information -**NA**
9. Programme-wise Student Teacher Ratio – **30 : 01**
10. Number of academic support staff (technical) and administrative staff: **sanctioned 08 and filled - 08**
11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. - **NIL**
12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received - **NIL**
13. Research facility / centre with - **NO**
 - state recognition
 - national recognition
 - international recognition
14. Publications: - **YES**
 - * number of papers published in peer reviewed journals (national / international) – **41**
 - * Monographs
 - * Chapter(s) in Books
 - * Editing Books -**01**
 - * Books with ISBN numbers with details of publishers
 - * 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
15. Details of patents and income generated - **NO**

16. Areas of consultancy and income generated - **NO**

17. Faculty recharging strategies – Refresher/Orientation

Refresher Course attended by the Members of the Department.

| Name | 1 ST R.C | 2 nd R.C | 3 rd R.C | 4 th R.C |
|------------------|-----------------------------------|----------------------------------|-----------------------|-----------------------|
| Dr. A.Dash | Utkal University 1998 | Utkal University 2000 | Utkal University 2009 | |
| Dr. P.K.Padhi | Central University Hyderabad,2003 | Utkal University 2005 | Utkal University 2013 | |
| Sri. P.K.Swain | Utkal University 2008 | Utkal University 2009 | Utkal University 2011 | Utkal University 2011 |
| Mrs.M.Mohapatra | Utkal University 2005 | Sambalpur University,Burla, 2006 | Utkal University 2008 | Utkal University 2010 |
| Dr. A.K.Kar | Utkal University 2008 | Utkal University 2010 | Utkal University 2011 | Utkal University 2011 |
| Mrs. S.Pattanaik | Sambalpur University,Burla,2008 | Sambalpur University,Burla,2011 | Utkal University 2008 | |
| Mrs. A.Behera | Utkal University 2007 | Utkal University 2008 | | |
| Dr. Mrs.S.Mishra | Utkal University 2011 | Utkal University 2017 | | |

Orientation Programme attended by the members of the Department : -

| Name | 1 ST O.P. | 2 nd O.P. | 3 rd O.P. | 4 th O.P. |
|-----------------|-----------------------|----------------------|----------------------|----------------------|
| Mrs.M.Mohapatra | Utkal University 2005 | | | |
| Dr.S.Mishra | Utkal University 2005 | | | |

18. Student projects

- percentage of students who have done in-house projects including inter-departmental **All final Degree students are bound for in house project under guidance of faculty members. – All(100%)**
- percentage of students doing projects in collaboration with industries / institutes –

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

- Faculty
- Doctoral / post doctoralfellows -**00**
- Students -

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. -**No**

21. Student profile course-wise:

| Name of theCourse (refer question no. 2) | Applications received | Selected | | Pass percentage | |
|---|--------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| 2012-13 | 850 | 20 | 12 | 93 | 95.6 |
| 2013-14 | 998 | 40 | 24 | 69 | 69.2 |
| 2014-15 | 1110 | 46 | 31 | | |
| 2015-16 | 1128 | 51 | 37 | | |
| 2016-17 | 1322 | 47 | 41 | | |
| 2017-18 | 1345 | 57 | 34 | | |

| | | | | | |
|---------|------|----|----|--|--|
| 2018-19 | 1325 | 48 | 45 | | |
|---------|------|----|----|--|--|

22. Diversity of Students

| Name of the Course (refer question no. 2) | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--|-----------------------------------|---------------------------------|------------------------------------|---------------------------------------|
| U.G | 60% | 100% | Nil | Nil |

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

24. Student progression

| Student progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | 15% |
| PG to M.Phil. | |
| PG to Ph.D. | |
| Ph.D. to Post-Doctoral | |
| Employed | |
| • Campus selection | 50% |
| • Other than campus recruitment | 35% |
| Entrepreneurs | 10% |

25. Diversity of staff

| Percentage of faculty who are graduates | |
|---|-----|
| Of the same parent university | 66% |
| From other universities within the state | 33% |
| From other universities from other states | Nil |

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. – **01**

27. Present details about infrastructural facilities

- Library – Library seminar lib.- No of books – **800**
Gen library or common ref: - **640**
- Internet facilities for staff and students - **Yes**
- Total number of class rooms - **2**
- Class rooms with ICT facility - **1(Common)**
- Students' laboratories - **02**
- Research laboratories - **01**

28. Number of students of the department getting financial assistance from College. – **PBF 10%**

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. - **NA**

30. Does the department obtain feedback from

- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
Yes. The Department obtained feedback from faculty on curriculum during board of studies meeting and incorporates the necessary changes in curriculum.
- students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
Students feedback is obtained from drop box duly acknowledged
- Alumni and employers on the programmes and what is the response of the department to the same?
Weightage given on alumni & employers feedback on curriculum designing & teaching learning process.

31. List the distinguished alumni of the department (maximum 10)
1. Dr Anjali Panda, Scientist, BARC
 2. Dr. B. C. Das, Asst. Prof. Deogarh Model College, Deogarh
 3. Dr A. Dash, Reader in Chemistry, Nimapara(A) College
 4. M. K. Nayak, Lect. In Chemistry at Mangala Mahabidyalaya.
 5. Rajesh Swain, J.R.F
 6. Dipti Ranajn Naik, Junior Scientist, Forensic Lab.
 7. Suchismita Acharya, J.R.F
 8. Rashmirekha Barik, J.R.F IIT Kharagpur
 9. Dr. Pravamayee Mishra, Scientist, CRRI, Cuttack
 10. Sri Bijay Kumar Mishra, Senior Manager, Indian Overseas Bank, Bhubaneswar
32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.
- Extra classes are organized for slow learners.**
- Seminar and project work is taken for 6th sem students.**
33. List the teaching methods adopted by the faculty for different programmes.
- a. **Traditional Classroom teaching**
 - b. **L.C.D Projector teaching.**
 - c. **Practical Demonstration/Teaching.**
34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
- Departmental meeting is organized once a month to review the programme objectives and learning outcome.**
- Lesson plan and progress is review in each month end by H.O.D of department.**
- The time to time academic progress is review by principal in H.O.D's meeting.**
- Every end semester exam results are analyzed vividly.**
- Doubt classes are arranged for slow learners.**
35. Highlight the participation of students and faculty in extension activities.
- The Students of the Department join Youth Red Cross, NCC and NSS units of the college as Volunteers and participate in the extension activities like organizing Blood Donation Camp, Adults literacy camps and Environment awareness camp and also C.W.C programme and students participates in cleaning of local hospital, erection of college garden . Department extend scientific knowledge to social fields in service of rural farmers by taking activities like soil test and water analysis.**
- A donation box has been setup in the department and the collected fund is used in donating to orphanage.**
36. Give details of "beyond syllabus scholarly activities" of the department.
- In House Seminar, U.G.C sponsored seminar through external resource person.
 - Motivating students for research work & guiding them for different entrance test.
 - Organizing Quiz, Essay, Debate competition on various topics of science and Zoology in particular
 - Active participation by the students in various academic & Co-curricular activities such as publication of wall magazine, celebration of Teachers day, welcome cum orientation programme & farewell ceremony, departmental picnic, Excursion and study tour & arrangement of talks by invited faculties, Observation of Saraswati & Ganesh Puja, Christmass, ID etc.
37. State whether the programme/ department is accredited/ graded by other agencies. Give details. -
NO
38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strength :

- Highly qualified and experienced teaching faculty and technical staffs.
- Highly disciplined and talented students
- Good relation between staff and student.

Weakness :

- Restricted autonomy in developing need base curriculum.
- Frequent transfer of faculty by the Govt.
- Students from rural background with low socio-economy and educational status.
- Restricted funds.

Opportunity:

- Seminar library
- Reading room facility
- Internet facility
- Supply of handout.
- PPT presentation of seminars by the students through LCD projector.

Challenges:

- To enhance the interest of students in higher study.
- To ensure the facility of research work.
- To make smart class room To make multi user internet facility and to enhance strength of study room as well as seminar library.

39. Future plans of the department. – To undertake PG course and self-finance course/ Soil and water quality testing lab.for local population/Diploma in quality control testing lab./Diploma in laboratory technician course in collaboration with zoology Dept..

