

Evaluative Report of the Department

1. Name of the Department :- **Department of Chemistry**
2. Year of establishment:- **1989**
3. Is the Department part of a School/Faculty of the university? **No**
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :- **UG(BSc.)**
5. Interdisciplinary program and departments involved :- Science week lecture series
Involved departments are Physics, Mathematics and Botany.
6. Courses in collaboration with other universities, industries, foreign institutions, etc. :-Nil
7. Examination System: Annual/Semester/Trimester/Choice Based Credit System:-
UG- **Annual**
8. Participation of the department in the courses offered by other departments :- Nil
9. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	nil	nil	Nil
Associate Professors	nil	nil	Nil
Asst. Professors	01	01	01
Others	--	--	--

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

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Hemant Kumar Deshmukh	MSc. Chemistry, (JRF-NET, SET,GATE Qualified)	Assistant Professor	Analytical Chemistry	06	Nil

11. List of senior Visiting Fellows, adjunct faculty, emeritus professors :- nil
12. Percentage of classes taken by temporary faculty – program-wise information:- NA
13. Program-wise Student Teacher Ratio 120:01 For BSc UG
14. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :-

	Sanctioned	Filled
Lab Technician	01	01
Lab attendant	01	nil

15. Research thrust areas as recognized by major funding agencies :- Nil
16. Number 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 title and grants received project-wise.:- Nil
17. Inter-institutional collaborative projects and associated grants received:- nil

18. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :- Nil
19. Research facility / center with :- Nil

20. Special research laboratories sponsored by / created by industry or corporate bodies : Nil
21. Publications: Nil
22. Details of patents and income generated :- Nil
23. Areas of consultancy and income generated :- Nil
24. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :- Nil
25. Faculty serving in
- a) National committees b) International committees c) Editorial Boards d) any other (please specify) :- Nil

26. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). yes
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s.n.	Name of faculty	Name of program attended	Duration	Organizing dep./university
1.	Hemant Kumar Deshmukh (Assistant Professor)	Faculty induction program	03/08/2021 to 06/09/2021	HRDC, Pt.Ravishankar Shukla University Raipur, C.G.

27. Student projects:- nil
28. Awards / recognitions received at the national and international level by :- nil
29. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. Nil
30. Code of ethics for research followed by the departments:- The college has a research cell and we have to follow the policy of the cell.
31. Student profile programme-wise:

Name of the Program	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
BSc. 2018-19	251	52	95	85%	95%
BSc. 2019-20	233	48	87	98%	99%
BSc. 2020-21	296	43	99	98%	98%
BSc. 2021-22	411	51	126	90%	98.40%
BSc. 2022-23	386	40	89	72.5%	77.52%

Diversity of students

Name of the Program	% 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
UG	100%	nil	Nil	nil

32. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. Nil, here no P.G. program is running.

33. Student progression :-

UG to PG	30% Average of five years from 2018-2022 (MSc.Chemistry,Botany,zoology,maths,physics,PGDCA,Bed. etc.)
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34. Diversity of staff

Percentage of faculty who are graduates	
of the same university	100%
from other universities within the State	Nil
from universities from other States from	Nil
universities outside the country	Nil

35. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period nil

36. 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 03

- d) Class rooms with ICT facility 01
 - e) Students' laboratories 01
 - f) Research laboratories 00
37. List of doctoral, post-doctoral students and Research Associates:- NA
38. Number of post graduate students getting financial assistance from the university. Nil
39. Was any need assessment exercise undertaken before the development of newprogram(s)? If so, highlight the methodology.:- no
40. Does the department obtain feedback :- Yes, feedback is taken from student and their parents and if any complains are received then it is resolved.
41. List the distinguished alumni of the department (maximum 10)
1. Monika Sahu, 2.Rajeshwari kannouje, 3.Kiran Pandey 4.Sheetal verma,
5.Charu Verma, 6.ruchi verma 7.Deeksha sahu 8.sandeep dhebar 9. Neha verma 10.Himanshu Yadav
42. Give details of student enrichment program (special lectures / workshops / seminar) involving external experts.

Year	Name of the activity	Nature of activity	External experts
2018-19	Lecture on	Seminar on "Introduction to glasswares in the lab"	Ms. Swati Singh, Assistant Professor At Balaghat College M.P.
2019-20	National seminar on "Advance Materials for Sustainable Industrial and Social Applications" NSAMSISA-2020	Seminar	Prof. K.K. Ghosh, SOS in Chemistry RSU Raipur(C.G.)
			Dr. M.L.Satnami, SOS in chemistry RSU Raipur C.G.
			Dr. Kamlesh Shrivastava, SOS in Chemistry Raipur C.G.
			Dr. Sanjib Banerjee IIT Bhilai C.G
2020-21	1) Talk on "Co-Ordination Chemistry" on National science day Lecture series	Lecture	Mr. Nasir Ahmed, Govt. Gundadhur College Kondagaon ,Bastar C.G.
	Seminar on "Ozone depletion : a threat to life" on world environment day 5 th June 2021	seminar	Dr. Ashish Asatkar, Assistant professor at Govt. Gundadhur College Kondagaon ,Bastar C.G.

2021-22	Value added course on "Lab Management"	30 h course	Dr. H.S. Karr , former Principal. Manual for Self-study Universities
			Dr.M.L.Satnami, Dr. Sanjay Ghosh, Dr. Ashish Asatkar, Shri Nasir Ahmed, Ms. Swati Singh
2022-23	Seminar on "Best Career Opportunities in Science"	seminar	Dr. Shushant Samal, Sr. Technical officer of CIPET,Raipur C.G.

43. List the teaching methods adopted by the faculty for different program:-

- a. Chalk and talk
- b. Group discussions
- c. Oral questions
- d. Assignments
- e. Class tests, internal assessments
- f. Through PowerPoint presentation
- g. You Tube Video lectures prepared by faculty

- h. Field visits, educational tours
 - i. Projects and models
 - j. Laboratory sessions
43. Highlight the participation of students and faculty in extension activities.
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44. Give details of “beyond syllabus scholarly activities” of the department. :-

We launched a value added courses to train the students about lab managements in which 6 professors from different college and universities gave lecture. We have visited with 30 student to the CIPET Raipur institute for learning how plastic and petrochemical industries are working . Time to time department of chemistry organize program on lab safety.

45. State whether the program/ department is accredited/ graded by other agencies?

If yes, give details.:- no

46. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:-

To develop the basic understanding of subjects classes are taken properly with using ICT. To clear the basic concept extra classes are conducted. Students are invited at the lab for enhancing the basic understanding. Apart from the subject different lectures and seminar have been conducted on different topic and career opportunities. We launched a value added courses to train the students about lab managements in which 6 professors from different college and universities gave lecture. We along with students visited to the CIPET Raipur institute for learning how plastic and petrochemical industries are working .

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

Strengths-

- Dedicated and qualified teachers
- Hardworking students.
- Involvement of students in all the academic activities.
- Disciplined and conducive learning environment.

Weaknesses-

- Insufficient teaching and non -teaching staff and teacher student ratio are inadequate.

- Lack of space (infrastructure) for lab and classroom sessions
- Less ICT classrooms.
- The number of reference and text books with different titles is very less in library
- Lack of English communications among students.

Opportunities-

- Students have opportunity to learn the subject with basics.
- They have opportunity to attend lectures from external faculty because here we call guest from different colleges time to time.
- Here student get benefited by value added courses and skill development programs
- Student can visit the industries and other institute near by the help of department

Challenges-

- To generate funds to enrich lab facilities.
- To maintain quality teaching learning with insufficient faculty and high no. of students.
- Progression of students from UG to PG and from PG to higher studies due to weak socioeconomic background.
- To make sanction post for teaching and non-teaching staff.

48. Future plans of the department:-

- (i) To enrich lab facilities for UG classes
- (ii) To equip classrooms and labs with ICT facilities.
- (iii) To correct teacher student ratio by appointing more temporary teachers.
- (iv) To organize national and international conferences and workshop in offline mode.
- (v) To conduct more value added courses on lab management courses.
- (vi) To provide recorded lecture along with the offline physical lecture so that slow learner can understand the lecture.


