

About the Department:

Chemistry is the central science. Its applications encompass all the aspects of human civilisation. Since many decades the subject has offered wide scale career opportunities to young and innovative minds.

With a very clear vision of nation building, the chemistry department was established by the management of Shiksha Mandal in 1962. Since then the department has made enormous progress in academics and research.

Since its establishment the department is known for its excellent faculty. Today the department has eight permanent faculty members and two contractual faculty members. All are well qualified. Five of the faculty members hold PhD, five have qualified CSIR-NET and six have qualified SET exams. The faculty members command high level of respect amongst students because of their excellent teaching and student-friendly nature. Besides teaching, faculty members are also involved in research activities and have published papers in National and International peer reviewed journals. Some have successfully completed one or more minor research projects funded by UGC. The department have been recognized as a centre for research.

The department is also rich in infrastructural facilities. The department has two laboratories for practicals of UG and PG students, one independent research lab, one Physical Chemistry lab, one Balance room, one preparation room, one store room and one staff room. The department bears an independent library of 350 books.

Highlights of the Department:

- Qualified and experienced faculty
- Well equipped laboratory and instrumental facility
- Recognition of laboratory for research and higher learning
- Students consistently qualifying CSIR-NET, SET, IIT-JAM exams
- Formation of Chemical Society
- Organization of the guest lectures of eminent scientists/academicians
- Organization of Seminars of UG and PG students’.
- Placement of students
- Execution of ‘Star College Scheme’ of DBT, Ministry of Science and Technology, Govt. of India
- Students participating in intercollegiate seminar, elocution, conferences etc.
- Department undertakes various activities under the banner of chemical society
- UG students executing their experimental projects under CPE since 2010-11 and PG students from 2006-07
- Research papers published by faculty and students in Journals and in conferences
- Books published by faculty
- Projects sponsored by UGC

S. N.	Name	Title of Project	Funding Agency	Year of sanction and amount
1.	Dr. P. V. Tekade	Environmental benign synthesis of 1,3 propanediones. An Interdisciplinary approach	UGC (WRO)	2008-10 (0.88 lakh)

2.	Dr. Mrs. N. P. Mohabansi & Prof. V.B. Patil	Study of efficiency of photo oxidation of organic contamination in waste water in various	UGC (WRO)	2009-11 (1.55 lakh)
3.	Dr. R.D. Raut	Synthesis and characterization & biological evaluation of derivatives of substituted pyrazolines	UGC (WRO)	2009-11 (0.90 lakh)
4.	Dr. S. V. Bawankar	Synthesis & characterization of co-polymers & their application as ion exchange resins	UGC (WRO)	2010-13 (2.0 lakh)
5.	Dr. R. D. Raut	Removal of heavy Elements from thermal power Stations by biological process	UGC (WRO)	2012-14 (0.90 lakh)
6.	Dr. Mrs. N. P. Mohabansi	Environmental remediation of waste water containing dyes with nanophotocatalyst.	UGC (WRO)	2013-16 (0.80 lakh)
7.	Dr. P. V. Tekade	Synthesis & Biocidal Activity of Benzene-1,2-dicarboxamide of amino acids	UGC (WRO)	2014-16 (5.0 lakh)

- Department is doing some micro scale level practical at both U. G. and P.G. level, which saves lot of chemicals.
- Organization of Chemistry Talent Search Exam in collaboration with M. J. college, Jalgaon (Since 2010-11).
- National Science Day celebration
- Educational tour to National Institutes and industries
- Mentoring of students through Cluster
- Hands on Training on sophisticated instruments
- Teachers' and Students' participation in different extension activities like CWSS, PEC, NSS, NCC etc

Courses:

Courses		Specialization	No. of Seats
UG	Bachelor of Science	Students may opt for Chemistry in following combinations 1. Chemistry, Physics, Mathematics 2. Chemistry, Zoology, Biotechnology 3. Chemistry, Botany, Biotechnology 4. Chemistry, Microbiology, Biotechnology 5. Chemistry, Zoology, Microbiology 6. Chemistry, Botany, Microbiology 7. Chemistry, Botany, Zoology	220
PG	Master of Science	Organic Chemistry	20

Research Programme:

- Ph. D. – Laboratory recognized as a place for Higher Learning and Research (Ph.D.) by R. T. M. Nagpur Univ. Nagpur vide letter No. BCUD/R/J2012/968/01172(Date:15.05.2012).
- Total No. of seats allotted = 10

Ph. D. students = 02 Awarded, 02 Submitted the thesis and 02 are working.

Highlights of the Syllabus under Academic Autonomy:

- The syllabus ensures that the students graduating with Chemistry as one of the subject will have the academic standard required to pursue post-graduation in Chemistry in India and abroad.
- Students graduating as well as post-graduating with Chemistry will acquire skills that will be of tremendous value to them especially if they choose a career in Research, Academics or Industry.
- We believe that the graduates with Chemistry will be able to face any national competitive exams held for the graduates. Also the postgraduates of Organic Chemistry will be able to qualify examinations like CSIR-NET, SET, GATE etc
- Syllabus contains the core branches including inorganic, organic and physical chemistry. In addition, important topics of analytical and biochemistry are also included in both UG and PG syllabi.
- Along with the theory, skill oriented experiments including some innovative projects will prepare the students to orient themselves to bridge the gap between science and technology.

Activities:

- Implemented Massive Open Online Course using MOODLE software since July, 2017
- Organized State Level Seminar Competition namely Scintillation in February, 2017
- Organized National Level Seminar and Workshop on Nanotechnology in February, 2016
- Organized State Level Seminar Competition namely Scintillation in February, 2015
- Organized State Level Workshop on Microscale Technique and Instrumentation in October, 2014
- Organized Intercluster Quiz Competition in September, 2013

Academic Achievement of the Students:

Student cleared competitive Examinations

S.N	Name of the Student	Entrance/ Competitive Exam
1.	Mr. Sunit Singh	NET, GATE
2.	Mr. Shrikant B. Thakare	NET, SET
3.	Ms.Priti Zamre	SET,PET,GATE
4.	Mr.Bhagwan Kharche	GATE
5.	Ms.Bharati Manmode	GATE
6.	Mr.Suraj Kukade	PET ,SET-2016, Ph. D. Submitted
7.	Mr.Ritesh Naik	Ph. D. Awarded
8.	Ms.Sonal D.Bajaj	Ph. D. Awarded
9.	Mr.Amol Kamdi	PET

10.	Mr. Aniket Balapure	SET-2016
11.	Ku. Bhagyasri Tale	SET-2015,PET- 2016
12.	Mr. Chetan Vaidya	NET-2013, SET-2013, GATE-2014
13.	Mr.Amar Uike	IIT JAM, VNIT, Pune University Entrance (2016)
14.	Ms. Neha M. Dehankar	IIT JAM 2016
15.	Mr. Deepa R, Mishra	IIT JAM 2016
16.	Mr. Vilom J. Jagtap	IIT JAM, VNIT, Pune University Entrance (2016)
17.	Ms. Pranali T. Bansod	IIT JAM 2016
18.	Ms. Kalyani R. Za	IIT JAM 2016
19.	Ms. Anuja P. Maitreya	IIT JAM 2016
20.	Mr. Rohit S.Talang	IIT JAM, VNIT, Pune University Entrance (2016)
21.	Ms. Konica R. Shewate	IIT JAM, VNIT, Pune University Entrance (2016)
22.	Ms.Gazal O. Chandak	IIT JAM, VNIT, Pune University Entrance (2016)
23.	Ms.Sakshi M. Poddar	IIT JAM, TIFR, VNIT, Pune University Entrance (2016)
24.	Ms. Prajakta M. Ramteke	IIT JAM 2014
25.	Mr. Pritesh R. Moon	IIT JAM 2014
26.	Mr. Sagar Bagwe	Pune University Entrance (2017)
27.	Ms. Amrapali Patil	IIT JAM 2017
28.	Ms. Neha Khobragade	IIT JAM 2017
29.	Mr. Vishnu Lokhande	Pune University Entrance (2017)
30.	Ms. Diksha Taksande	IIT JAM 2018
31.	Mr. Shubham Pusam	IIT JAM 2018

- Every year students participate and win prizes in various intercollegiate competitions.

State Level Chemistry Talent Search Examination for B. Sc. I Students (Organized by Moolji Jaitha College , Jalgaon in J. B. College of Science, Wardha)

Session	Date of exam & Time	Name of the student stood 1 st Rank in College level	Rank in Maharashtra Level
2011-12	11-12-2011	Ms. Renu S. Dhale	9 th
2012-13	23-12-2012	Ms.Prajakta M. Ramteke	5 th
2013-14	15-12-2013	Ms. Gazal O. Chandak	4 th
2015-16	13-12-2015	Ms. Anshukumari Singh	3 rd
2016-17	08-01-2017	Ms. Pornima Gawande	2 nd







Intercollegiate Seminar Competitions

Session	Competition	Organizer	Name of the student	Prize
2014-15	Intercollegiate Seminar Competition	S. K. Porwal College, Kamptee	Ms. Saveri Soni	1 st
2014-15	Intercollegiate Seminar	VMV Commerce, JMT Arts and JJP	Ms. Saveri Soni and Ms. Sakshi Poddar	1 st

	Competition	Science College, Nagpur		
2014-15	State Level Students' Seminar Competition, Scintillation '15	J. B. College of Science, Wardha	Ms. Saveri Soni	1 st
2015-16	Intercollegiate Seminar Competition	S. K. Porwal College, Kamptee	Ms. Mehnaz Ali	2 nd
2016-17	Intercollegiate Seminar Competition	S. K. Porwal College, Kamptee	Ms. Urvi Gupta	3 rd

Teaching Staff:

Sr. No	Name of faculty	Qualification	Designation	Date of Joining	Specialization	Area of Research	Photo
1	Dr. O. A. Mahodaya	M.Sc., Ph.D., D. B. M.	Principal	25/05/2006	Organic Chemistry	synthetic chemistry; Pharmacology, stability of complexes, Medicinal chemistry, Bio-organic chemistry	
2	Prof V.B. Patil	M.Sc., B. Ed.	Associate Professor, Incharge and of COE Autonomous College	18/11/1985	Inorganic Chemistry	Inorganic Chemistry	
3	Dr. R.D. Raut	M.Sc., B. Ed., Ph.D.	Associate Professor	28/08/1986	Organic Chemistry	Organic Chemistry	
5	Dr. P. V. Tekade	M.Sc., B.Ed., SET, NET, GATE, Ph. D.	Associate Professor	01/12/2004	Organic Chemistry	Synthetic chemistry; Pharmacology, stability of complexes, Medicinal chemistry, Bio-organic chemistry	
6	Dr. Mrs. N. P. Mohabansi	M.Sc., B.Ed., SET, Ph. D.	Assistant Professor	04/01/2007	Physical Chemistry	Photocatalysis	

7	Dr. K. M. Dadure	M.Sc., M. Phil., Ph. D.	Assistant Professor	02/07/2007	Organic Chemistry	Organophysical Chemistry	
8	Mr.M. D. Bansinge	M.Sc. NET	Assistant Professor	29/07/2013	Analytical Chemistry	Analytical Chemistry	
9	Mr.N. A. Barwat	M.Sc. SET, NET	Assistant Professor	29/07/2013	Physical Chemistry	Nanochemistry	
10	Dr. P. G. Borkar	M.Sc. SET, NET, GATE, PhD, Post Doc	Assistant Professor	07/02/2017	Organic Chemistry	Synthetic Organic Chemistry, Asymmetric Synthesis, Organocatalysis, Heterocyclic Chemistry	
11	Ms. B. U. Tale	M.Sc. SET, B.Ed.	Assistant Professor on Contract basis	18/01/2013	Organic Chemistry	Organic Chemistry	
12	Mr. C. D. Vaidya	M.Sc., SET, NET, GATE, B,Ed.	Assistant Professor on Contract basis	11/12/2017	Organic Chemistry	Characteristics of total carbon in ambient air, source apportionments study of molecular markers	

Non-teaching Staff:

S. N.	Name	Designation	Experience
1.	Mr. R. J. Arvikar	Laboratory Assistant	15 years
2.	Shri. S. S. Gudadhe	Laboratory Attendant	24 years
3.	Shri. G. S. Lende	Laboratory Attendant	13 years
4.	Shri. A. D. Girde	Laboratory Attendant	08 years
5.	Shri. D. V. Mate	Laboratory Attendant	08 years