

Department of Chemistry

1. **Name of the Department:** Chemistry
2. **Year of Establishment:** 15th June 1962
3. **Names of programme offered:** UG
4. **Interdisciplinary programmes and departments involved:** Nil
5. **Examination System: Annual/Semester (Trimester Choice Based Credit) System:**
Semester
6. **Participation of department in courses offered by other department:**
Yes, in the year 2013-14 COC (soil analysis) offered by department of zoology.
7. **Courses in collaboration with other universities industries foreign industries:** - None
8. **Details of the courses/ programme discontinued (if any):-** None
9. **Number of teaching posts sanctioned, filled and actual:**

	Sanctioned	Filled
Associate Professor	03	00
Assistant Professor	03	03

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

Name of Faculty	Qualification	Designation	Specialization	Experience in years
Smt. P.M. Patil	M.Sc., M.Phil, MSCIT	Asso. Prof.	Physical Chemistry	27
Shri. S. R. Kulkarni	M.Sc.	Asso. Prof.	Physical Chemistry	30
Shri. K. Y. Mane	M. Sc. D.H.E.	Asso. Prof.	Inorganic Chemistry	23
Shri. B.C. Patil	M.Sc. M.Phil	Asst. Prof.	Organic Chemistry	18
Dr. K. A. Undale	M.Sc. Ph. D.	Asst. Prof.	Organic Chemistry	03
Shri. Y. B. Gurame	M.Sc., NET	Asst. Prof.	Organic Chemistry	01

Shri. S. S. Ankushrao	M.Sc., SET, GATE, PhD (Appear)	Asst. Prof.	Industrial Chemistry	4
Dr. A. S. Tapase	M. Sc. Ph.D.	Asst. Prof.	Physical Chemistry	01
Miss. A. M. Sapate	M. Sc.	CHB	Organic Chemistry	01
Shri. S. R. Kamat	M. Sc., GATE	CHB	Industrial Chemistry	01
Shri. P. V. Mogane	M. Sc.	CHB	Inorganic Chemistry	01
Shri. R. V. Magdum	M. Sc.	CHB	Organic Chemistry	01
Miss. A.M. Gafari	M.Sc.	CHB	Bio-chemistry	02
Miss. S. N. Sadule	M. Sc.	CHB	Organic Chemistry	01
Shri R. M. Yamgarni	M. Sc.	CHB	Drug Chemistry	02
Shri. V. B. Shinde	M. Sc., BEd, SET, NET	CHB	Industrial Chemistry	03
Shri. S. S. Yesane	M. Sc.	CHB	Applied Chemistry	03
Shri P.M. Mhaldar	M. Sc., SET	CHB	Industrial Chemistry	03
Shri. N. H Waghmare	M.Sc.	CHB	Industrial Chemistry	03
Shri. D. J. Sutar	M. Sc.	CHB	Drug Chemistry	02
Shri. S. R. More	M. Sc	CHB	Inorganic Chemistry	01

11. List of senior visiting faculty:-

Name of Visiting Fellow, Adjunct faculty, Emeritus professor	Topic of Lecture Delivered
Dr. S.S. Patil	Spectroscopy
Shri.S.G. Khanapure	meditation before study
Dr. Sharad K. Pasale M.Sc. Ph.D(Italy)	opportunities in Chemistry

Dr. Hemant V. Chavan (M.Sc. Ph.D.,NET,JRF,GATE)	Spectroscopy
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12. Percentage of lectures delivered and practical classes handled by temporary faculty:-
(Grantable- 20%, Non-Grantable-100%)

13. Programme-wise Student Teacher Ratio (2015-16):---

14. Number of academic support staff (technical) and administrative staff sanctioned filled and actual:

Sr. No	Class	No. of Students	No. of Faculty	Ratio
1	B.sc I	308	9	154:1
2	B.sc II	168	9	84:1
3	B.sc III	65	6	10.83:1
Posts		Sanctioned	Filled	
<i>Lab Assistant</i>		<i>1</i>	<i>1</i>	
<i>Lab Attendant</i>		<i>6</i>	<i>4</i>	

15. Qualifications of teaching Faculty with Ph.D./ M.Phil./PG:

Faculty with Ph. D, -02, Faculty with M.Phil.-01

16. Number of faculty with ongoing projects from:

(i) National: Nil

(ii) International funding agencies -----

(iii) Total grants received: Nil

17. Departmental projects funded by DST-FIST; UGC-SAP/CAS, OPE; DBT, ICSSR, AICTE, etc. total grants received:-

i) Shri K. Y. Mane completed minor research project in 2011-12 to 2013-14
Project Title: Study of mineral deficiency in grape yard with respect to Tasgaon & Miraj
Tahsil

Funding Agency: UGC

Total Grant Received: 1,36000 /-

18. Research centre/ faculty recognized by the university:-

MOU with Vanita Agro-chemical research laboratory and Miracle industry Ichalkaranji:
Student of B.Sc. III availed facilities for project work.MOU with Radhamohan processors
for synthesis of natural dyes.

19. Publications: ---

- Number of papers published in peer review journal (national/international):

Sr. No	Faculty Name	No of paper published
1	Dr. Tapase A.S.	05
2	Ankushrao S.S.	02

Citations :- 09

H- index:- 02

i-oindex:- 0.

20. Areas of consultancy and income generated- Consultancy in soil and water analysis

21. Faculty serving in:

(a) National committees— Nil

(b) International committees- Nil

(c) Editorial Boards – Nil

22. Student projects

a) Percentage of students who have done in-house projects including interdepartmental projects— Yes 58.83%

b) Percentage of students doing project in in collaboration with orhter industry/
institute: - 41.17 %

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

- Mr. S. S. Ankushrao 3rd Prize for Oral Presentation of paper entitled “*synthesis & characterization of co-poly(ester-amide)s containing Cyclopentylidene moiety for high temperature Applications*” in national conference on ‘New Horizons in Chemical Sciences’ organized by Department of Chemistry, YCIS, Satara on December 22 &23 , 2015.

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

25. Seminars/Conferences/Workshops organized and the source of funding (national\international) with details of outstanding participants, if any: :- Nil

26. Student profile programme course-wise:

Name of the course & Year	Application Received	No of students Enrolled			Pass Percentage %
		Sancationed	Female	Male	
B.Sc III 2015-16	80	65	38	28	91.23

27. Diversity of Students -2015-16

Name of the Course	% of Students from Same State	% of Students from other State	%of Students from Abroad
B. Sc.	100	—	—

28. How many students have cleared national and state competitive and Defence Services examinations, such as NET, SET, GATE civil services and defense services.:-

Name of Student	Category	Qualified examination
Miss. Dipti Shinde	Open	MPSC (PSI)
Mr. V. B. Shinde	Open	SET, NET
Mr. P. M. Mhaldar	SBC	SET, NET-JRF
Mr. Shiva Kolhe	SBC	SET, NET-JRF
Miss. Chaitali Bagade	SC	PhD

29. Student progression-2015-16

Student Progression	Percentage against enrolled
UG to PG	49.23%
PG to Ph.D.	-
Campus Selection	3.07
Other than campus	44
UG to MBA	1.53
UG to MCA	1.53

30. Infrastructural Facilities

- a) Library: Yes, Total number of reference & text books:- 157
- b) Internet facilities for staff and students: Yes, in the department, central library and in computer department.
- c) Total no. of class rooms with ICT facility- in seminar hall.
- d) Student's Laboratories: 02

31. Number of students receiving financial assistance from college, university, government or other agencies:

Number of students receiving financial assistance from university scholarship, government BC scholarship, students 'Earn and Learn Scheme'

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

Seminars, exhibition, guest lectures, wall paper presentation, project activities.

33. List of teaching methods adopted by the faculty for different programmes: Board chalk, demonstration, group discussion, questionnaire, PPT and Problem solving method, presemester, unit tests, home assignments. Gsuite, You tube lectures.

34. Highlight the participation of students and faculty in extension activities:

Sr. No.	Name of Faculty	Extension Activity
1	Mrs. P. M. Patil	District level science exhibition
2		Elocution competition organized in Ichalkaranji High school Ichalkaranji
3	Mr. B. C. Patil	For selection of Asst. Professors at Bhogavati College Kurukuli
4	Mr. M. Mhatugade	National Seminar on Maharashtra Through The Ages organized by Shivaji University, Kolhapur.
5	Mr. M. Mhatugade	Genius 2 K 14 organized by dept. of Physics DKASC College, Ichalkaranji

6		CHAMP 2014 organized by DKASC College, Ichalkaranji
7		Voluntary Blood donation to Blood bank of Miraj Serological institute
8		Biography in English organized by Shivaji University, Kolhapur.
9	Mr. R. S. Vhanale	National Seminar on Maharashtra Through The Ages organized by Shivaji University, Kolhapur.
10		“ <i>Model Nations Conference (MNU) 2014</i> ” organized by Rotary club of Karveer, Kolhapur
11		Workshop “Awareness Program for Conversation of Some Sacred Groves from Kolhapur District” organized by Dept. of Botany, Rajaram College, Kolhapur
12		Lead College Activity workshop “Eradication of Superstition” organized by Night College of Arts and Commerce, Ichalkaranji
12	Mr. Raviraj Shinde	“4 th Indian Student Parliament” organized by MAEER’s MIT, Pune
13	Mr. Sandip Patil	Certificate course in Retail Banking Sales Management at ICICI Bank Sales Academy
14	Mr. Sachin Patil	D K A S C CHAMP 2014 organized by dept. of Mathematics DKASC College, Ichalkaranji
15	Mr. Sanjay Mane	Residential Camp of National Service Scheme in Shivaji University, Kolhapur Campus
16		Skill development workshop organized by Shivaji University, Kolhapur
17		National Integration Camp organized by NSS Cell, Karanataka University, Dharwad
18		“Granthmahotsav-2016” organized by Bt. Balasaheb Khardekar Granthalaya, Shivaji

		University Kolhapur
19		“6 th Indian Student Parliament” organized by MAEER’s MIT, Pune.
20	Miss. Priyanka Bhosale, Miss. Swarali Patil, Miss.	Zonal Level ‘Bharatnatyam’ at Ichalkaranji, organized by Kolhapur District Sport Dance Association
21	Gayatri Bhumkar, Miss. Amruta Ulape, Miss. Kalyani Patankar, Miss. Chinmayi Ukidave	State Level ‘Bharatnatyam’ in 2 nd Maharashtra State, Junior & Senior Sport Dance Championship at Buldhana

35. SWOC analysis and future plans of the department

Strengths:

1. Good academic performance .
2. Best academics, good research .
3. Department has MoUs with industries in Ichalkaranji.
4. Chemistry Association provide platform for conducting and participation in co- curricular activities .
5. Certificate course in Preparation of house hold chemicals.
6. NET/SET guidance is provided.

Weaknesses:

1. Industry-Department interaction needs to be strengthened.
2. Consultancy & extension activities are to be gear up.
3. PG course to be started in future.
4. Research to be enhanced.

Opportunities:

1. To organize national level conference.
2. Strengthen linkages with industries.
3. To start additional short term certificate course.

Challenges:

- 1 Teaching- Learning process to be assisted with technology upgradation.
- 2 Curriculum upgradation.
- 3 To have vacant posts filled in