



**J.D.M.V.P. Samaj's, Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R. Pandit Science College, (Nutan Maratha College), Jalgaon.**



***CHEMISTRY***  
***DEPARTMENTAL***  
***PROFILE***  
***2018-2023***

## **Mission**

“Experience through Experiments” for better job opportunities and to train the students to face the challenges. To make the students literate about environmental aspects.

## **VISION**

To be one of leading chemistry departments in KBC North Maharashtra University Region, setting standards and providing benchmarks in science education “Grow with Education”

## **Objectives of the Department**

- To motivate students for making carrier in Chemistry.
- To make them confidant of using instruments in the Chemistry Laboratory.
- Utilize the fundamental laboratory techniques for analyses such as titrations, separation/purification
- To provide a broad foundation in chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective.
- To provide students with the skills required to succeed in graduate school, the chemical industry, or professional school.
- To expose the students to a breadth of experimental techniques using modern instrumentation.
- The student will understand the interdisciplinary nature of chemistry and will develop an ability to integrate knowledge of mathematics, physics, and other disciplines to a wide variety of chemical and environmental problems.
- The student will learn the laboratory skills needed to design, safely conduct and interpret chemical experiments, and will learn proper ways of disposing of chemical waste.
- The student will acquire a foundation in chemistry of sufficient breadth and depth to enable them to understand and critically interpret the primary chemical literature.
- The student will develop the ability to effectively communicate scientific information and research results in written and oral formats with a diverse range of audiences.

- The student will develop an ability to recognize ethical and professional responsibilities in scientific situations and make informed judgments, which must consider the impact of chemical processes in global, economic, environmental, and societal contexts.
- To make aware about the use of different software tools.

## **DEPARTMENT OF CHEMISTRY**

The department of chemistry was established in 1972. Since the inception of the department it has strived to achieve academic excellence through quality teaching, participative learning and technical skill enhancement in frontier domains of chemical Science. The department offers UG (Aided) and PG (Organic Chemistry) and COCC in water analysis, COCC in Soil analysis. As a result of department's commitment towards holistic development of the students; the graduates passing from the department have strong technical and theoretical foundation and are competent enough to survive in the competitive environment. The department has well experienced and dedicated faculty members have aims to impart sound knowledge and awareness in the latest developments in the field of Chemical Science. The Department emphasizes on experiential learning through various innovative methodologies which include seminars, workshops, exhibitions, and projects for the holistic development of the students. The department has well equipped laboratory and received recognition from KBC NMU as Research Center.

### **Highlights of the Department:**

- ▶ Courses from Under Graduation to Ph.D.
- ▶ Highly Qualified Staff.
- ▶ Research Activities.
- ▶ Good Infrastructure
- ▶ Recognized Research Center of Chemistry by KBC NMU Jalgaon with separate Research Lab

Department has LCD projector facility

- ▶ Well Equipped Laboratories
- ▶ Personal attention and counseling for students
- ▶ Opportunity for the students to conduct projects in department laboratory
- ▶ Regular Physico –Chemical analysis of drinking water.
- ▶ Chemical waste water is treated with natural adsorbent and then relieve into the sewer.

## 2. Details of the Programmes Offered by the Department

Sr No	Program level	Name of the program	Duration	Entry Qualification	Medium of Instruction
1	UG	B Sc Chemistry	03 Years	H S C	English
2	PG	M.Sc. Organic Chemistry	02 Years	BSC	English
2	Certificate Course	1) COCC in Water Analysis 2) COCC in Soil Analysis	01 Year	H S C	English
3	Ph. D. (Chemistry)	Research in all fields of Chemistry	03 Years	M Sc Chemistry	English

## 3. Departmental Staff:

Post	Number of faculty
Assistant Professor	02
CHB	01
Contractual	03

## Name and Information of the Teachers of Chemistry Department:

Sr. No	Name of the Teacher	Qualification	Designation	Mobile No. & Email	Research Experience	Date of Appointment and Experience UG to PG
1	Dr. M. S. Patil	M.S.c., B.Ed. Ph.D Y.T.D.C.	Asst. Professor	9404594441 <a href="mailto:madhurisatishpatil@gmail.com">madhurisatishpatil@gmail.com</a> m24chemistry@gmail.com	Four Students Perciving PhD One- coguide	UG: 32 Years, PG: 7 years
2	Dr. S. P. Mote	M.S.c., M.Phil, Ph.D	Asst. Professor	9881455403 sumovrn@gmail.com	One Student Perciving PhD	UG: 32 Years, PG: 7 years
3	Mrs. Jagruti. S. Alekar (April-23)	M.S.c., B.Ed.	Asst. Professor	9730820746	.....	UG: 5 Years PG: 5 Years
4	Mr. karansing J. Patil(April-22)	M.S.c., B.Ed.	Asst. Professor	7773907439	-----	UG: 3 Years, PG: 03 years
5	Mr. Saurabh. D .Kachare	M.S.c.	Asst. Professor	7798094569	.....	UG: 2 Years, PG: 2 years
6	Miss. Priyanka G. Hiwarkar	M.S.c,	Asst .Professor	7020013124	.....	UG: 2 Years, PG: 2 years
7	Miss. Pragati . A. Patil	M.Sc. SET	Asst. Professor	8320318065	---	--

## Faculty on Academic Bodies of University:

**Dr. Mrs. M. S. Patil (Asst. Professor)**

**(Head of the Department and Vice Pinciple)**

- ❖ Member : Member Board of Studies in Yogic Science
- ❖ Junior Supervisor of University Examination
- ❖ Internal and external examiner Practical examination
- ❖ Member : Paper Setting of University Examination
- ❖ Member: Executive Council KBCNMU Chemistry Association
- ❖ Research Guide KBCNMU Chemistry
- ❖ Head of the Department And Vice Principal.

**Dr. S. P .Mote (Asst. Professor)**

- ❖ Junior Supervisor of University Examination
- ❖ Internal and external examiner Practical examination
- ❖ Research Guide KBCNMU Chemistry
- ❖ Member : Paper Setting of University Examination

## Meritorious Students:

### **T. Y. B. Sc. (Chemistry)**

Sr No	Name of the student	Year	CGPA/ Percentage of Marks	Rank
1	Joshi Ishwar Sudhakar	2018-19	75.33%	First in the College
2	Hiwarkar Priyanka Gajanan	2019-20	83.29%	First in the College
3	Bhatia Gavatri	2020-21	90.89%	First in the College
4	Chaudhari Aditi Ravindra	2021-22	85.42%	First in the College
5	Tadvi Alisha R.	2022-23	80.92%	First in the College

**Result data of the assessment period:**

		<b>T Y B Sc</b>	
Sr. No	Year		Pass %
1	2018-19		53.98 %
2	2019-20		100 %
3	2020-21		100 %
4	2021-22		35.97 %
5	2022-23		6.25%

### NET/SET/Govt. Exam and Other Examination Qualified by Students:

Sr No	Year of Passing	Seat No	Name of the Student	NET/SET/ Govt. Exam
1	March 2023	654690	Deshmukh Prajakta V.	SET
2	March 2023	607530	Teli Vaibhav Suresh	SET
3	June 2022	----	Patil Harshal Ravindra	CSIR JRF GATE
4	Octo 2023	---	Patil Harshal Ravindra	PMRF
5	Dec.2022		Mr. Vishal Chaudhari	M.P.S.C. Class-II
6	Dec.2023		Shubham Shinde	M.P.S.C PSI

Sr No	Name of student	Program	Name of Employer	Pay package At appointment (In INR per annum)
1	Somwanshi Ketan Yogeshwar	B.Sc	Technician F. D. Production Granules	1,80,000 ( Yearly)
2	Patil Avinash Narayan	B.Sc	Honour Lab, Daund, Jr. Chemist in Production	1,32,000 (Yearly)
3	Patil Mahindra Sunil	B.Sc	Lupin Pharma, Mulshi	1,80,000 (Yearly)
4	Patil Kiran Ramkrushn	B.Sc	MACLEODS Pharma	1,14,000 ( Yearly)
5	Jadhav Bhushan Shivaji	B.Sc.	Spectrum, Asst. Manager	2,50,000(Yearly)
6	Patil Gopal Dagadu	B.Sc.	QC Officer, Avenza Pharma	3,00,000(Yearly)
7	Sarode Kartik Ramchandra	B.Sc.	Production Supervisor CATA Pharma	2,16,000 (Basic Yearly)
8	Chaudhari Narendra	B.Sc.	DWD Pharma, Mumbai	3,75,000 (Yearly)
9	Patil Pratik M	B.Sc.	SunPharma, Dewas ,QC	2,30,000 ( yearly)
10	Girase Hemant	M.Sc.	Daman Amaliya Plant	3,00,000 (Yearly)
11	Kadam Vipul	M.Sc.	Mylan QC	2,50,000 (Yerly)
12	Pawar Yogesh Dewidas	M.sc.	Zydus, Ankaleshwar, Qc	3,00,000 ( Yearly)
13	Patil Shubham Satilal	B.Sc.	Lupin Mulshi,	2,37,000 (Yearly)
14	Patil Amol Babu	B.Sc.	Sumitomo Chemicals Sr. Associate	3,50,000 ( Yearly)
15	Patil Yogesh Ashok	M.Sc.	LEBEN Lifescience QC Officer	2,52,000 ( Yearly)



16	Bhilmal Ghanshyam Madhukar	B.Sc.	Army MTS	-----
17	Girase Ishwar Ujjwalsing	M.Sc.	Alkem Lab	2,30,000 (Yearly)
18	Wagh Dnyaneshwar	M.Sc.	Alembic Qc	2,90,000 (Yearly)
19	Deore Akash	M.Sc.	AurobindoPharma	2,60,001 ( Yearly)
20	Girase Samadhan	M.Sc.	Unique Pharma, QC/QA	2,50,000 (Yearly)
21	Suryawansh Avinash	M.Sc	GlenmarkLifescience, Production	2,20,000 (Yearly)
22	Shinde Shubham Sahebrao	M.Sc.	MPSC- PSI	-----
23	Patil Yogesh Ravindra	M.Sc.	Yogesh Dairy Farm (Owner)	12,00,000
24	Gaikwad Shubham Sanjay	B.Sc.	Dairy Farm Owner	12,00,000
25	Malu Pritesh Sanjay	B.Sc.	Malu agro sales Owner	15,00,000
26	Chaudhari Vishal Sanjay	B.Sc.	Asst. Section Officer MPSC Class2	---
27	Patil Pankaj Sanjay	M.Sc.	Zydus Lab QA	2,50,000
28	Sheikh Arshad Fakir	B.Sc.	Ajanta Pharma	2,00,000

**List the distinguished alumni of the department:**

Sr. No.	Name of the Alumni	Present post held
1	Dr. D. G. Hundiware	BCUD Director, KBCNMU, Jalgaon (RTD)
2	Dr. N. S. Pawar	Professor Pratap College, Amalner
3	Dr.NileshWagh	Professor, MET
4	Mr. K Y Khadse	PSI, Mumbai
5	Mr. P M Devang	Scientist, Taiwan
6	Mr. P D Patil	Manager, Bharat Petroleum
7	Dr. MustaqeenBagwan	Assistant. Prof. H J Thin College
8	Mr.ShubhamShinde	PSI, Mumbai

9	Mr.HarshalPatil	CSIR PMRF Holder
10	Mr.YogeshPatil	Business Dairy Farm
11	Mr.BhushanJadhav	Asst. Manager Spectrum Lifescience
12	Mr. Javed Sheikh	Lecturer <i>AGM College, Jalgaon</i>
13	Mr. Vishal Chaudhari	MPSC Class 2 Officer
14	Shubham Shinde	M.P.S.C PSI
15	Vaibhav Teli	Indian Railways

### List of PhD students in the department:

<b>Dr Mrs. M. S. Patil (Research Guide)</b>				
Sr No	Name of the	PhD/ M Phil	Title of the Thesis	Status
1	Mr.Kiran. B. Patil DOR: 02-11-2020	Ph.D.	Study on Phytochemical and Biological Properties of Plant Extract	Perceiving
2	Ms. Sheikh Javed Ahmad DOR: 02-11-2020	Ph.D.	Synthesis characterization and biological activity of derivatives of 6 bromo 2 amino benzothiazole	Perceiving

3	Mr. Pawar Charushila B DOR: 02-11-2020	Ph.D.	Growth and Characterization of gel grown and pure copper doped zinc tartaret	Perceiving
4	Mr. Malak Sajid Ajid	Ph.D.	Synthesis of biological evaluation and docking analysis of Schiff base derived from 134 thiadiazole	Perceiving
5	Miss Prajakta V.Deshmukh	Ph.D.	Synthesis and characterization of Biofertilizers prepared from organic waste with its application of crops	Perceiving
<b>Dr. S. P.. Mote (Research Guide)</b>				
1	Ms. Patil Vinayak Ramlal DOR: 02-11-2020	Ph.D	Study Synthesis and Spectral identification of Pyrole, Pyrrole and aliphatic diketo acid derivative	<b>Perceiving</b>

Research projects by faculty: Nil

Sr No	Name of faculty	Title of research project	Funding agency	Status
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### Publications by Faculty:

Sr No	Name of the faculty	Publication in peer reviewed Journal (National)	Publication in peer reviewed Journal (International)	Books/ Book Chapters
1	Dr M. S. Patil	00	12	....
2	Dr S.P. Mote	00	06	...
3	Miss. Priyanka Hiwarkar	--	1	....

### Seminars/Conferences/Workshops/RC/OC/FDP attended:

Sr No	Name of Faculty	Seminar conference Workshop (State/Uni)	Seminar conference Workshop (National)	Seminar conference Workshop (International)	RC/OC/FDP
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1	Dr M.S Patil	0	17	03	02
2	Dr S.P. Mote		06	06	01
3	Miss. Priyanka Hiwarkar		1	1	

### Infrastructure of the Department: Physical Facilities:

Sr No	Room/ Laboratory	Dimension (Feet )	Utilization for
1	Lab. I	<b>46.5X 24</b>	S Y and TY Practical's
2	Lab. II	36X16	FY Practical's& Junior
3	Lab. III (Research )	<b>24 X 18</b>	(Research )

### Computers and other peripherals:

Sr No	Item	Description	Number
1	Computer	P4	1
2	Printer	Canon	01
3	LCD Projector		01

### Special facilities of the Department:

1. Recognized Research Center of KBC NMU Jalgaon for UG/ PG and Research Student

### Strengths, Opportunities of the department:

#### Strengths:

- ❖ Well experienced and qualified staff

- ❖ Department with Recognized Research center
- ❖ Friendly interaction of teachers with the students
- ❖ Very co-operative non-teaching staff

### Opportunities:

- ❖ Teaching learning method can be improved with learning resources
- ❖ Ample scope for extending research projects

### Future Plans:

- ❖ To set up well equipped research laboratory with Characterization Facilities. (IR, NMR, UV) for research.
- ❖ To organize more co-curricular activities for the students
- ❖ To apply for research projects and funding for it.



**Avishkar Model  
Presentation**



**Avishkar Model  
Presentation**

**Avishkar Poster  
Presentation**

**Avishkar Poster  
Presentation**





**Avishkar Poster Presentation**



**Treatment On Chemical Water**



**Industrial Visit**



**Industrial Visit**



**Conference Participation**



**Drinking Water Analysis**

