



DEPARTMENT PROFILE (2022-23)

DEPARTMENT OF CHEMISTRY

1. Faculty profile

Sr. No	NAME	DESIGNATION	QALIFICATION	EXPERIENCE (Years)
1	Dr. MEGHASHAM N. NARULE	Asso. Prof. & Head	M.Sc, M. Ed, Ph.D(Che), Ph, D(Management).	13 years
2	Dr. R. G. GAJBHIYE	Assistant professor	M.Sc., NET, SET, GATE, Ph.D.	13 years
3	Ms. S. W. AWAGHADE	Assistant professor	M.Sc., SET	11 years

2. Students Profile

Class	Admitted Students	Appeared for exam	Pass	Success %	Fail
B.Sc. Sem. I	159	159			
B.Sc. Sem. II	159	159			
B.Sc. Sem. III	140	140	40	28.57%	100
B.Sc. Sem. IV	140	140			
B.Sc. Sem V	158	158	14	8.19%	157
B. Sc. Sem VI	108	108			

M.Sc. Sem. I	26	26			
M.Sc. Sem II	26	26			
M.Sc. Sem III	30	30	01	3.34%	29
M. Sc. Sem IV	30	30			

3. Changes made in the courses or programmed during the past two years and the contribution of the faculty to those changes.

Minor changes in the syllabus of B. Sc. Semester I to VI in the subject chemistry Specially the B.Sc.VI semester syllabus is Change which have been come to effect from the session 2019- 20 and onwards.

P.G. Course that is M.Sc. Chemistry (CBCS) is running smoothly with RTM Nagpur University guideline with no changes in syllabus.

4. The learning resources of the department

Library

- In Library related to Chemistry numbers of books are available for student related to their syllabus as well as reference books.
- In Library number of Journals and Magazines.
- Provide Internet Facility and also N- List online journal are available.

5. Number of major and minor Instruments in the Department

- In Chemistry Department has 60 major and minor instruments Costing Rs. 674267.

6. Inauguration of Chemical Society and Guest lecture

Inauguration of Chemical Society and Guest lecture is arranged for students.

7. Poster competition and Model Exhibition

On the occasion of Science day on dated 28/02/2023 we organized Model Exhibition for B Sc V Semester and M. Sc. students.



On the occasion of Science day on dated 28/02/2023 we organized poster competition for B Sc V Semester M. Sc. Students.

8. Guest lecturer and group discussion activity

- **Name of Program / Event:** Chemical Society Inauguration and Guest lecture.
- **Name of the Organizing Department:** Chemistry (UG +PG).
- **Date, Venue, Time/ Duration:** 13th September 2022, ICT Room no. 33
- **Number of participated students/ faculty members/ research scholar:** 116 Students, Teaching and non-teaching staff of Chemistry department participated in this programmed.
- **Name of the speaker / guest:** **Dr. Deorao M. Awari**
Assistant Professor, Department of Pharmacology,
Institute of Pharmaceutical Education and Research
Borgaon (Meghe), Wardha.

- **Introduction of the event:**

The Chemical Society of Department of Chemistry was inaugurated on 13th September 2022 by the Chief guest Dr. Deorao M. Awari, Assistant Professor, Department of Pharmacology, Institute of Pharmaceutical Education and Research ,Borgaon(Meghe), Wardha.

The inauguration commenced with the lighting of lamp by our esteemed guest and faculty Dr. D. M. Awari, Dr. M.N. Narule, Dr. R.G. Gajbhiye, Mrs. S. W. Awaghade,

Mr. Bulhe, Ms. Ankita Bobade. Afterwards, faculty of Chemistry department welcomed the Chief Guest Dr. D. M. Awari with blossoming bouquet of flowers. Ms. Sanjana Ambulkar -President of the Chemical Society took the privilege to introduce the society team and programs organized by society for session 2022-23. society souvenir was unveiled by the dignitaries on this occasion.

Later, Dr. Awari delivered a valuable lecture on "Drug Synthesis" and he also pointed the significance and important future aspects of carrier in this field. He felt delighted to know the way chemistry is being promoted by the Department. After the completion of his lecture, students asked questions and the session concluded with an interactive lecture session. Ms. Sanjana Ambulkar on behalf the Chemical Society offered vote of thanks to all, including the Chief Guest, HoD - Chemistry and the faculty advisors without whom event of this kind wouldn't have been possible.

- **Objective of the event:**

- Forming chemical society, the students get involved in various activities done by chemistry department.
- It enhances the leadership quality and knowledge of subject in students.
- Hearing new voices provides students not only with different points-of-view, but also with potential resources they can apply in later course
- To build a bond between students and faculty.

Photographs



lecture delivered by Dr. Awari



Chemical Society members with guest

Outcomes

- Through guest lecture, Students gets the Knowledge about drugs and its action
- Future opportunity of chemistry students in pharma industry
- Chemical society formation and their work structure had to be done in this programmed.

9. Industrial Visit

- **Name of Program / Event:** Industrial Tour.
- **Name of the Organizing Department:** Department of Chemistry
- **Date, Venue, Time/ Duration:** 25/08/2022, Sawal Udyog Wardha, 08:00 AM, 1 Day.

- Number of participated students : 47
- faculty members : 03

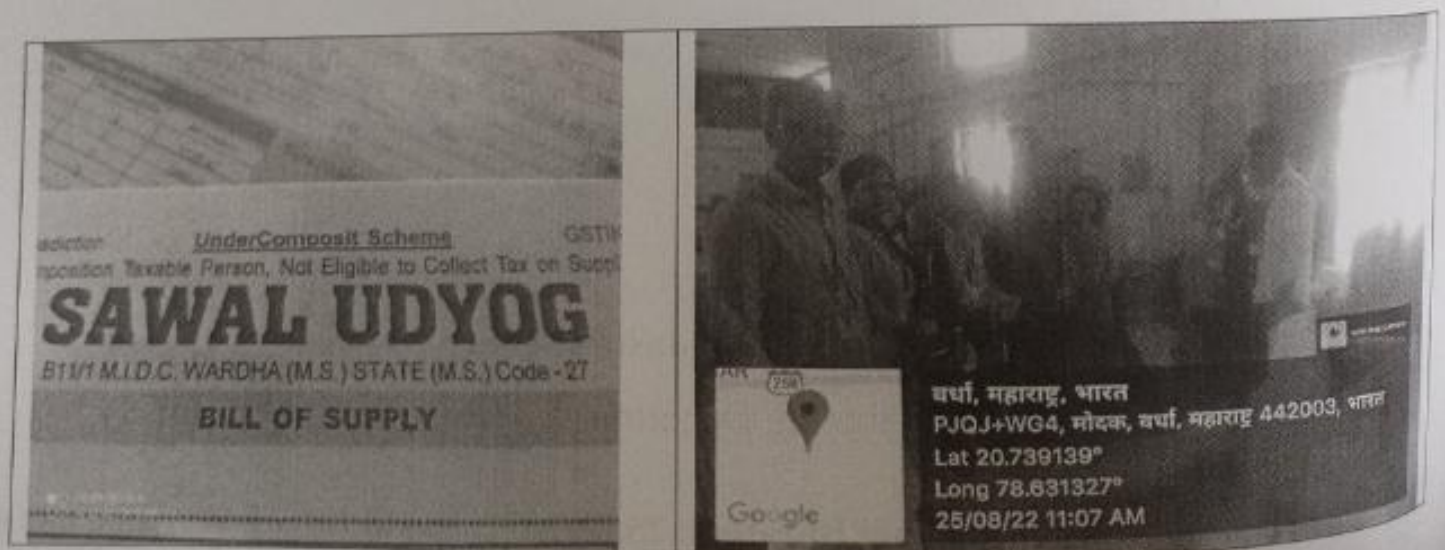
Introduction of the event:

Industrial visit arranged for B Sc. V Semester students on 25/08/2022 at MIDC Sawal Udyog Wardha. Mr. Sharma was the Manager of Soap industry under Sawal Udyog giving all necessary idea about the industry and how the soap is prepared what are the ingredient use for the formation of soap. Also guide the students about industrial jobs opportunities and complete process of soap product in industry. The 47 students from B Sc V semester and three faculty –Dr. M. N. Narule, Dr. R. G. Gajbhiye and Bobade madam was participated in this industrial visit.

Objective of the event: (Maximum 5 bullets points)

1. Students are aware about Industrial Working.
2. Students are knowledge about formation of the soap.
3. Which type of chemicals used in soap industry.
4. How workers are working in chemical Industry.
5. How many numbers of people working in Industry with responsibility.

Photographs:





Outcome:

This industrial visit gives the knowledge to the students about soap preparation and which chemical use for the soap formation.

Any Suggestion for future Improvement:

We arrange Industrial tour for Large scale Industry in future for students.

10. Power point Presentation

Name of Program: Power point Presentation

- Name of the Organizing Department: Department of Chemistry

- Date, Venue, Time/ Duration: 06/10/2022,
- Number of participated students : 47
- faculty members : 03

Introduction of the event: Students of B Sc v semester give the power point presentation on various topic of their syllabus. The 47 students from B Sc V semester and three faculty –Dr. M. N. Narule, Dr. R. G. Gajbhiye and Bobade madam was participated in this industrial visit.

Objective of the event:

1. Students are aware about ppt.
2. Students are knowledge about formation of ppt.
3. Students are knowledge who to represent.

Photographs:



11. Modern teaching methods practiced and use of ICT in teaching – learning

a) Teaching methods:

- Online Plain Lecture, Question-answer, Interaction, Group discussion, etc.
- Demonstration of practical's.
- Explanation using Charts and Power point presentations.
- College has provided very good well-equipped laboratory facility. We use to conduct all the experiment in laboratory.
- Use internet facilities for providing recent information.
- Use Smart board for teaching, smart class room available in college
- Use different reference books, journals, periodicals, etc.

b) Evaluation methods:

- Students are evaluated time to time, for that purpose following practices are conducted viz. On line Unit-tests, Seminars, Term-end exam. Home assignments, University examination.

c) Use of ICT:

- Online teaching, LCD Projector, Computer, Scanner, Internet facilities, smart class room etc.

12. Participation of teachers in academic and personal counseling of students

The teachers of the department interact with the students in the laboratory personally at the time of practical and conduct some extra classes during remedial coaching under mentor mentees system. During this interaction students can talk with the teachers. From this interaction the faculty comes to know the socioeconomic background of the student. Teaching faculty can solve personal difficulties of the students. Help them in their problem how to solve and motivate to learn more and more and becomes a good person in their life.

FACULTY INFORMATION

Participation/contribution of teachers to the academic activities including teaching, consultancy and research:

A) Teaching work load

Sr. No	Name of the lecturer	Subject	Class	Periods Allotted		Total Work Load	Extra	Remarks
				L	P/T			
1	Dr. MEGHASHAM N. NARULE	Chemistry	B.Sc. sem. I/ II B. Sc sem. III/ IV B. Sc. III	00 03 02	00 06 09	20	00	
2	Dr. RAHUL G. GAJBHIYE	Chemistry	B.Sc. sem. I/ II B. Sc sem. III/ IV B. Sc. III	02 02 00	12 00 06	22	02	
3	Ms. SHITAL W. AWAGHADE	Chemistry	B.Sc. sem. I/ II B. Sc sem. III/ IV B. Sc. III	03 00 03	06 06 03	21	01	

B) Participation in co- Curricular activities:

Sr. No.	Name of Programme	Date	Name of Organizer
1.	Admission Committee UG.	11 June to 15 sep.	Dr. Shirbhate/ all science faculty members
2.	PG admission	11 June to 15 sep.	Prof. R. G. Gajbhiye
3.	Industrial Visit	1-10 March	Dr. Narule & Prof. Gajbhiye

Extra Curricular activities:

1. College and self Development Activities
Library facility Use; use of N-List, books reading, etc

Internet Facility Use: Use of Computer lab through students

2. Social Activities.

C) Priority Areas of Research: -

1. **Dr. MEGHASHAM N. NARULE:** Head, Department of Chemistry
 - Details of Ongoing Projects: 02 submitted DST & SERB
 - Publications in 2022-23: 03
 - Conferences attended and paper presentations: 01
 - Refresher Course/ Orientation course and Workshop : 00
2. **Dr. R. G. GAJBHIYE-** Assistant Professor, Department of Chemistry
 - Publications in 2022-23: 02
 - Conferences attended and paper presentations: 00
 - Refresher Course/ Orientation course and Workshop : 00
3. **Mrs. S. W. AWAGHADE-** Asst. Professor, Department of Chemistry
 - Publications in 2022-23: 00
 - Conferences attended and paper presentations: 02
 - Refresher Course/ Orientation course and Workshop : 03

Place: Samudrapur

Date: - 3 May 2023

Principal

VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT
 VIDYA VIKAS ART'S, COMMERCE & SCIENCE COLLEGE,
 SAMUDRAPUR DIST. WARDHA 442305 (M.S.)
 (Affiliated To RTM Nagpur University, Nagpur)
 (NAAC Accredited B⁺⁺ 2022)



DEPARTMENT PROFILE (2022-23)
POST GRADUATE DEPARTMENT OF CHEMISTRY

1. Faculty profile.

Sr. No	NAME	DESIGNATION	QUALIFICATION	EXPERIENCE
01	Dr. M. N. NARULE	Asso. Prof. & Head	M. Sc., M. Ed, Ph. D. (Che), Ph. D. (Management).	13
02	Dr. R. G. GAJBHIYE	Assistant professor	M.Sc., NET, SET, GATE, Ph. D.	13
03	Dr. R. B. LANJEWAR	Assistant professor	M.Sc., Ph. D.	02
04	Mrs. S. W. AWAGHADE	Assistant professor	M.Sc., NET	11
05	Mr. A. M. BULHE	Assistant professor CHB	M. Sc., B. Ed.	4
06	Miss. A. O. BOBADE	Assistant professor CHB	M. Sc.	4

2. Students Profile.

Class	Admitted Students	Appeared for exam	Pass	Success %	Fail
M.Sc. Sem. I	26	26			
M.Sc. Sem II	26				
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3. Changes made in the courses or programmed during the past two years and the contribution of the faculty to those changes.

P.G. Course that is M.Sc. Chemistry (CBCS) is running smoothly with RTM Nagpur University guidelines with no changes in syllabus from 2019 to this session.

4. The learning resources of the department.

Library

- In the Library related to Chemistry, a number of books are available for student related to their syllabus as well as reference books.
- In the Library number of Journals and Magazines.
- Provide Internet Facility and also N- List online journals are available.

5. Number of major and minor Instruments in the Department.

- The Chemistry Department has 60 major and minor instruments Costing rupees 674267.

6. Modern teaching methods practiced and use of ICT in teaching learning.

a) Teaching methods:

- Online Plain Lecture, Question-answer, Interaction, Group discussion, etc.
- Demonstration of practical's.
- Explanation using Charts and Power point presentations.
- College has provided very good well-equipped laboratory facility. We use to conduct all the experiment in laboratory.
- Use internet facilities for providing recent information.

- Use Smart board for teaching, smart class room available in college
- Use different reference books, journals, periodicals, etc.

b) Evaluation methods:

- Students are evaluated time to time, for that purpose following practices is conducted viz. On line Unit-tests, Seminars, Term-end exam, Home assignments, University examination.

c) Use of ICT:

- Online teaching, LCD Projector, Computer, Scanner, Internet facilities, smart class room etc.

7. Industrial tour.

Introduction of event.

- Department of M. Sc. Chemistry organized an industrial visit for PG Chemistry students on 24/11/2022 to visit PEE VEE Textiles Ltd. Jam, Plant Nursery and S. S. M. Formulation pvt. Ltd. Hinganghat.
- In SSM formulation the the students understand about the quality of pharmaceutical products is controlled throughout manufacturing and approval processes.
- Mr. Khandare, owner of Khandare's Plant Nursery, raises healthy, vigorous and clean seedlings that are free from pests and diseases.
- In PEE VEE Textiles Ltd. Jam student's excited about how to ensure the quality of textile and textile machinery both. Students prepared an industrial visit report.
- Student's learned how the products are designed and developed by good laboratory practices and good clinical practices.
- During this industrial visit teachers and students work collaboratively for the activity.

Photographs.

- S. S. M. Formulation pvt. Ltd. Hinganghat.



8. Laboratory solid waste management and Model Exhibition

- On the occasion of Science day on 28/02/2023 we organized a Model exhibition for M. Chemistry students.
- For this students used the solid waste of the Chemistry laboratory and made different models.
- About 52 students of M. Sc. Chemistry participated in this event.
- Student's learned how the laboratory waste can be used to make best from waste.

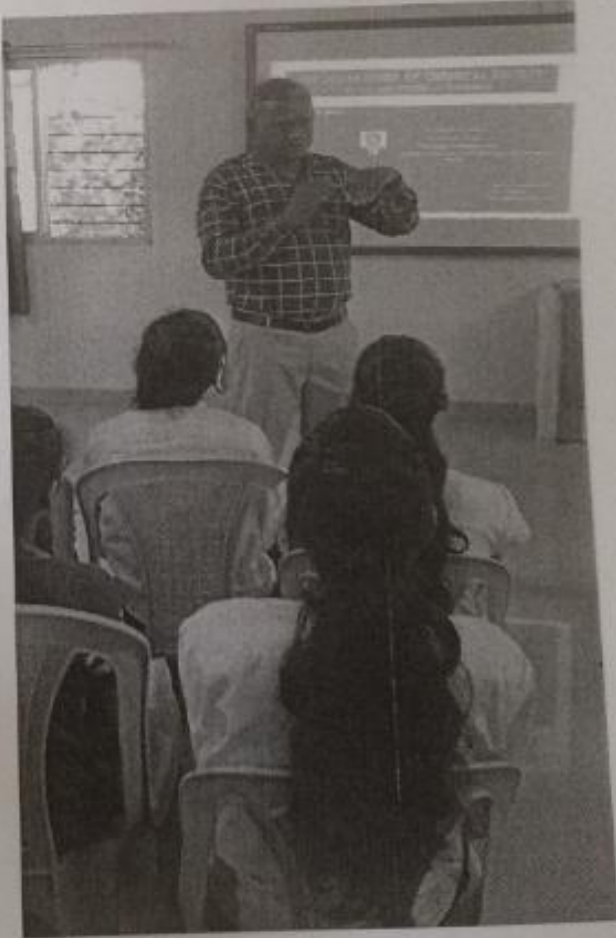


9. Chemical Society Inauguration and Guest lecture.

Introduction of the event.

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- Dr. Awari also delivered a valuable lecture on "Drug Synthesis" and he also pointed out the significance and important future aspects of careers in this field.
- Through guest lecture, Students gets the Knowledge about drugs and its action.
- Students also understood the future opportunities of chemistry students in pharma industry.

Photographs.



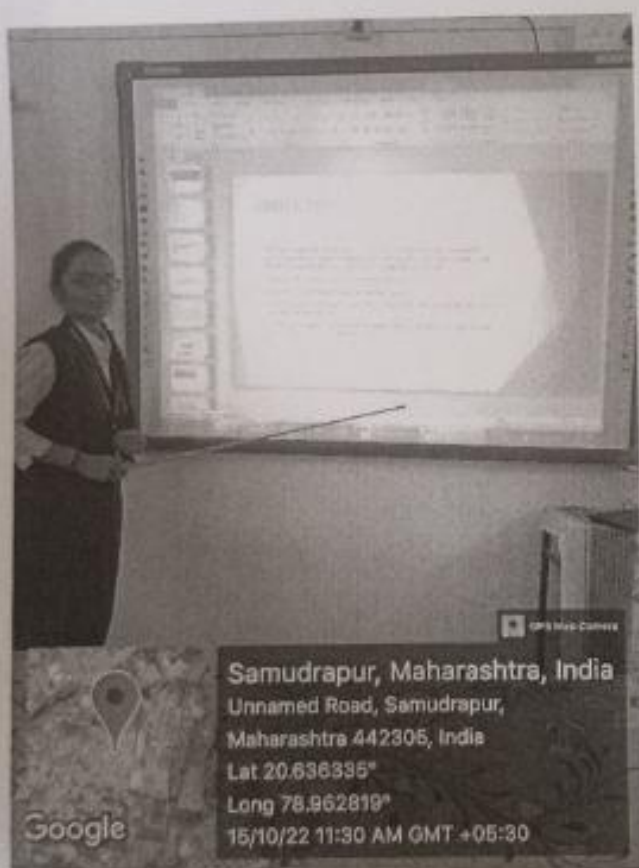
10. Power point Presentation

Introduction of the event: Students of M. Sc. I-semester and III-Semester gives the power point presentation on various topics of their syllabus. The 50 students from M. Sc. I-semester and III-Semester delivered PowerPoint presentation in smart class room number 33.

Objective of the event:

1. Students are aware about ppt.
2. Students are knowledgeable about formation of ppt.
3. Students are knowledgeable about how to represent.

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11. Participation of teachers in academic and personal counseling of students.

The teachers of the department interact with the students in the laboratory personally at the time of practical and conduct some extra classes during remedial coaching under mentor mentees system. During this interaction students can talk with the teachers. From this interaction the faculty comes to know the socioeconomic background of the student. Teaching faculty can solve personal difficulties of the students. Help them with their

problem, how to solve and motivate them to learn more and more and become a good person in their life.

12. FACULTY INFORMATION.

Participation/contribution of teachers to the academic activities including teaching, consultancy and research.

A) Teaching work load.

S.N.	Name of Lecturer	Subject	Class	Periods Alloted		Total Work Load
				Theo	Pract	
01	Dr. M. N. Narule	Chemistry	M. Sc.-II	03	00	03
02	Dr. R. G. Gajbhiye	Chemistry	M. Sc.-I M. Sc.-II	02 02	00 00	04
03	Dr. R. B. Lanjewar	Chemistry	M. Sc.-I M. Sc.-II	04 04	02 02	20
04	Mrs. S. W. Awaghade	Chemistry	M. Sc.-I M. Sc.-II	05 01	00 00	06
05	Mr. A. M. Bulhe	Chemistry	M. Sc.-I M. Sc.-II	02 04	02 01	18
06	Miss. A O. Bobade	Chemistry	M. Sc.-I M. Sc.-II	05 04	01 01	17

B) Participation in co- Curricular activities:

Sr. No.	Name of Programme	Date	Name of Organizer
1	PG admission	25 July- 14 Aug 23	A. M. Bulhe, A. O. Bobade
2	Industrial Visit	24 Nov 2023	A. M. Bulhe, A. O. Bobade

Extra-Curricular activities:

- College and self-Development Activities
Library facility Use; use of N-List, books reading, etc.
Internet Facility Use: Use of Computer lab through students
- Social Activities.

C) Priority Areas of Research.

1. **Dr. M. N. NARULE-** Head, Department of Chemistry
 - Details of Ongoing Projects: 02 submitted DST & SERB
 - Publications in 2022-23: 03
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 - Publications in 2022-23: 02
 - Conferences attended and paper presentations: 00
 - Refresher Course/ Orientation course and Workshop : 00
3. **Mrs. S. W. AWAGHADE-** Asst. Professor, Department of Chemistry
 - Publications in 2022-23: 00
 - Conferences attended and paper presentations: 02
 - Refresher Course/ Orientation course and Workshop : 03

Place: Samudrapur

Date: - 29 April 2023

Principal


Coordinator


HOD