

VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT
VIDYA VIKAS ARTS, COMMERCE & SCIENCE COLLEGE,
SAMUDRAPUR DIST. WARDHA 442305 (M.S.)
 (Affiliated To RTM Nagpur University, Nagpur)



DEPARTMENT OF BOTANY

Report 2024-25

1. Faculty profile

Sr. No.	NAME	DESIGNATION	QALIFICATION	EXPERIENCE (Years)
1	Dr. Nayana S. Shirbhate	Associate Prof. & Head	M. Sc. (Bot.), NET, Ph.D.	14 years & 06 Years (PG) (permanent)
2	Dr. V. G. Manwatkar	Assistant professor	M. Sc. (Bot.), B.Ed., Ph.D.	12 years (UG) & 06 Years (PG) (permanent)
3	Dr. S.D. Yeotkar	Assistant professor	M. Sc. (Bot.), M.Phil., Ph. D.	11 years (UG) & 06 Years (PG) (Permanent)
4	Ms. S. W. Gulhane	Assistant professor (CHB)	M. Sc. (Bot.), SET, B.Ed.	6 Years
5	Ku. J. M. Jasutkar	Assistant professor (CHB)	M. Sc. (Bot.), B.Ed., Ph.D.	6 Years
4	Mr. R. S. Pawar	Assistant professor (C.H.B. P.G.)	M. Sc. (Bot.), SET, B.Ed., Ph. D (Pur.)	6 Years
5	Ms. P. R. Tayade	Assistant professor (C.H.B. P.G.)	M. Sc. (Bot.), Ph. D (Pur.)	1 Years

2. Students Profile

Class	Admitted Students	Appeared for exam	Pass	Success %	Fail
B.Sc. Sem. I	30	29	27	93.10 %	02
B.Sc. Sem. II					

B.Sc. Sem. III	87	87	84	96.35 %	03
B.Sc. Sem. IV					
B.Sc. Sem. V	85	76	72	94.73 %	04
B.Sc. Sem. VI					
M. Sc. Sem. I	19	19	01	5.55 %	18
M. Sc. Sem II					
M. Sc. Sem. III	11	11	10	90.90 %	01
M. Sc. Sem IV					

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

a) Changes made in the course of programme during the past two years

Major changes in the syllabus of B. Sc. Semester I and M.Sc. Sem. I to IV in the subject of Botany according to NEP which have been come to effect from the session 2023-24 for PG and 2024-25 For UG. Faculty members involve in entire procedure for designing syllabus of both UG and PG as a board member of Botany.

4. The learning resources of the department

Library

- In **Botany**, our library has 526 books costing Rs. 2,12,717 up to 03/04/2025 and also forms a sectional library of Botany. The sectional library has a total of 102 different books and journals. These books are handed over to students for regular use by the college library.
- In the Library number of Journals and Magazines.
- Provide Internet Facility and also N- List online journal is available.

5. Number of major and minor Instruments in the Department

- In **Botany** Department has 51 instruments costing **Rs. 6, 50, 238** up to 30/4/2025. These instruments use students for regular practicals.

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

a) Teaching methods:

- Plain Lecture, Question-answer, Interaction, Group discussion, field study, etc.
- Explanation using Charts like RBPT and Power point presentations.

- Use Smart board for teaching, smart class room available in college

b) Evaluation methods:

- Students are evaluated time to time, for that purpose following practices are conducted viz. Oral, Unit-tests, Seminars, Term-end exam., Home assignments, University examination, surprised test and working and field based project is used through online mode on Google form.

c) Use of ICT:

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

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

The teachers of the department interact with the students personally at the time of teaching to conduct some extra classes during remedial coaching under mentor – mentee system. During this interaction students can talk freely 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 & also give personal financial assistance to needy students. The faculty also does academic as well as personal counseling in selecting the proper carrier in future.

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	Class	Period Allotted		Total Workload	Extra
			L	P/T		
1	Dr. N. S. Shirbhate	B. Sc. Sem. I/II	1	6	20	2
		B. Sc. Sem. III/IV	0	6		
		B. Sc. Sem. V/VI	1	6		
		M. Sc. Sem. I/II	1	0		
		M. Sc. Sem. III/IV	1	0		
2	Dr. V. G. Manwatkar	B. Sc. Sem. I/II	1	4	20	4
		B. Sc. Sem. III/IV	3	4		
		B. Sc. Sem. V/VI	2	4		
		M. Sc. Sem. I/II	1	0		
		M. Sc. Sem. III/IV	1	4		
3	Dr. S. D. Yeotkar	B. Sc. Sem. I/II	4	6	20	3
		B. Sc. Sem. III/IV	3	4		

		B. Sc. Sem. V/VI	0	2		
		M. Sc. Sem. I/II	1	2		
		M. Sc. Sem. III/IV	1	0		
4	Ms. S. W. Gulhane	B. Sc. sem. I /II	3	2	9	0
		B. Sc sem. III /IV	0	2		
		B. Sc. V/VI	0	2		
5	Ku. J. M. Jasutkar	B.Sc. sem. I /II	3	2	9	0
		B. Sc sem. III /IV	0	2		
		B. Sc. V/VI	0	2		
6	XYZI (CHB)	B. Sc. V/VI	3	0	9	0
		B.Sc. sem. I /II	3	0		
		B. Sc. V/VI	3	0		
7	Mr. R. S. Pawar	M. Sc. Sem. I /II	4	6	20	0
		M. Sc. Sem. III/IV	4	6		
8	Ms. P. R. Tayde	B. Sc. Sem. V/VI	3	0	20	0
		M. Sc. Sem. I /II	4	6		
		M. Sc. Sem. III/IV	3	4		

B) Co- Curricular activities:

- 1. Induction Programme of Department of Botany:** Student Induction Programme was organized for the new students as soon as they come into the institution; before regular classes start. At the start of the induction, Dr. Nayana Shirbhate H. O.D. messages the students to learn about the departmental policies, programme, practices, culture and values.
- 2. Tree Plantation Drive:** Every year, the department hosts a plantation activity that raises students' awareness of environmental issues and enhances the campus's appearance.
- 3. Inauguration of Botanical society and Guest Lecture:** Every year the Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur reforms the Botanical Society with specific aims and objectives for conducting various programmes. This year the Botanical Society was reformed on 20th September 2024. The main purpose of the formation of botanical society is to select the student panel called the

of the formation of botanical society is to select the student panel called the Executive Council designated with different positions and execute their role while conducting the various events in the college and there is a scope to show their talents. Dr. K. G. Rewatkar, Principal, V. V. Arts, Commerce and Science College, Samudrapur, Maharashtra delivered a guest lecture on "Future of AI in Education", focusing on the recent advancement and research trends in biological sciences.

4. **NEP Workshop:** NEP Orientation Programme for staff and students of B.Sc. I and M. Sc.-II Semester-III was done in August 2024.
5. **Study Tour:** Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur organizes excursions on 21st September 2024 for all students of UG (CBZ group) and PG (Botany) to Shradheya Shri. Atal Bihari Vajpayee Botanical Garden, Visapur Dist. Chandrapur (Maharashtra). Tour was organized by Dr. S. D. Yeotkar and Mr. Rahul Pawar made special efforts. The garden is meticulously maintained and serves as a hub for research, education, and conservation of plant diversity. Students prepared excursion reports. In the even semester also department of science has organized study tour on 11th March 2025 at CSIR-CICR, Nagpur and Fish Farming Unit at Nagpur.
6. **Guest Lecture:** On January 13, 2025 the Department of Science, Vidya Vikas Arts, Commerce and Science College, Samudrapur in collaboration with PM Shri ZP School, Samudrapur organized a guest lecture titled "Role of Environmental Modelling in Predicting and Mitigating Pollution" with aiming to bridge the gap between academic knowledge and its practical applications in addressing real world environmental issues. The lecture was delivered by Dr. Hemant Bherwani, Senior Scientist from the cleaner technology and modelling division (CTMD) of CSIR-NEERI, Nagpur, Maharashtra.
7. **Science Day Celebration:** In honour of National Science Day, the science department of our institution hosted a scientific exhibition event on February 28, 2025. All faculty members, the principal, and the vice-principal were present at the exhibition, and the B.Sc. and M.Sc. students were required to make models based on the theme. The various models that the students displayed were related to their science theme. Our distinguished guest and the principal, Sir, looked over the entire exhibition and asked the students about each of their models. The exhibition was intended to motivate students to improve their mental abilities, language, presentation, creativity, and thinking skills.

8. The "World Wetland Day" celebration was organized on 3rd February 2025 at Auditorium Hall, Vidya Vikas Arts, Commerce and Science College, Samudrapur. The chief guest was Mr. Kunal Zalke, Trainer, Nandi Foundation, Mahindra Pride.
9. **Certificate Course in Gardening:** The Certificate Course in Gardening offered by the Department of Botany is a short-term program designed to provide fundamental knowledge and practical skills in gardening, horticulture, and plant care. This course is ideal for UG and PG students in developing expertise in gardening techniques, landscape management, and plant propagation.

C) Extra-Curricular activities:

1. College and self-Development Activities

- Plantation; College campus, Village, Garden, etc.
- Library facility Use; use of N-List, books reading, etc
- Internet Facility Use: Use of Computer lab through students
- Physical Education: Use of Gym, games, etc.

D) Priority Areas of Research: -

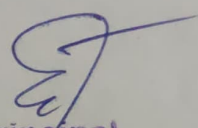
- **Ms. Nayana S. Shirbhate, Assistant Prof. & Head:** Total paper published in different international and national reputed, high impact factor and Scopus indexing journals 32, Published 8 books, innovation of 5 Patents, 1 Minor research Project Sanctioned under the RGSTC Scheme No.RTMNU/DIIL/RW/2022/369 and Recognized research guide for supervising Ph. D. Scholars 4 students working under able guidance, awarded with Dr. APJ Abdul Kalam Life Time Achievement award for remarkable achievement in the field of Teaching, Research and Publication. National Institute for Socio Economic Development, Bangalore and Young Faculty 2021, Contribution towards Education Skill Development and Research awarded by Center for Education Growth and Research (CEGR), New Delhi.
- **Dr. Vijay G. Manwatkar, Assistant Professor:** Total papers published in different international and national reputed and high-impact-factor journals 23, published, innovation of 2 Patents, 1 book, 8 chapters in the book, and recognized research guide for supervising Ph.D. scholars. Recognized research guide for supervising Ph. D. Scholars 4 students working under able guidance and awarded with Academic Excellence of the year for remarkable achievement in the field of Teaching, Research,

and Publication by Green Global Goodness 3G Foundation India and Society for Technologically Advanced Materials of India.

- **Dr. Swati D. Yeotkar, Assistant Professor:** Total 17 papers published in different international and national reputed journals, published, innovation of 1 Patent, and 6 chapters in the book.
- **Mr. Rahul S. Pawar, Assistant Professor (CHB):** Total 06 papers published in different International and National reputed high impact factor journals, innovation of 02 International Patents, and 03 chapters in the Book.
- **Ms. Pratiksha R. Tayde, Assistant Professor (CHB):** Total 01 paper published in different International and National reputed high-impact factor journals, innovation of 01 International Patent.

Place: Samudrapur

Date: - 03/04/2025


Principal
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