

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
Internal Quality Assurance Cell

DEPARTMENT OF MICROBIOLOGY

INTERNAL ACADEMIC AUDIT

2023-2024

1. A. Faculty Strength:

Faculty	Recruited	Vacant	Remarks
Regular	01	-	-
CHB	02	-	-
Ad-hoc	06	-	-
Non-teaching	04	-	-

B. Faculty Profile:

Name	Highest Qualification	Designation	Specialization	Teaching Experience
Dr. Pranita Gulhane	M.Sc., Ph.D., B.Ed.	Assistant Professor (P.G.)	Microbiology	16.5 years (Assistant Professor 1.5 Year + Adhoc lecturer 15 years + C.H.B lecturer 1 year)
Ms. Sanchari Sarkar	M.Sc., SET, B.Ed., GATE	Assistant Professor (Adhoc)	Microbiology	3 years (Adhoc lecturer 2 years + C.H.B lecturer 1 year)
Ms. Shivani Gohane	M.Sc., SET, GATE	Assistant Professor (Adhoc)	Microbiology	2 years (Adhoc lecturer 1 year + C.H.B lecturer 1 year)
Ms. Priya Gaidhane	M.Sc, SET	Assistant Professor (C.H.B)	Microbiology	3 years (C.H.B. lecturer)
Ms. Nupur Deshmukh	M.Sc, B.Ed.	Assistant Professor (Adhoc)	Microbiology	3.5 years (Adhoc lecturer)
Ms. Pallavi	M.Sc	Assistant Professor	Microbiology	1 Year (Adhoc lecturer)

Butle		(Adhoc)		
Ms. Sarika Tekade	M.Sc	Assistant Professor (Adhoc)	Microbiology	1 Year (Adhoc lecturer)
Ms. Ankita Manapure	M.Sc	Assistant Professor (Adhoc)	Microbiology	1 Year (Adhoc lecturer)
Ms. Anjali Pogade	M.Sc	Assistant Professor (Adhoc)	Microbiology	1 Year (Adhoc lecturer)
Ms. Sayali Sangole	M.Sc	Assistant Professor (Adhoc)	Microbiology	1 Year (Adhoc lecturer)
Ms. Triveni Pardhi	M.Sc	Assistant Professor (Adhoc)	Microbiology	1 Year (Adhoc lecturer)

2. Student's strength

Year	Group	Number of Students Admitted
B.Sc. Semester I	CMBT	78
	CBM	20
	CZM	31
	Total	129
B.Sc. Semester III	CMBT	76
	CBM	28
	CZM	28
	Total	132
B.Sc. Semester V	CMBT	69
	CBM	24
	CZM	27
	Total	120
M.Sc. Semester I	Microbiology	22
M.Sc. Semester III	Microbiology	20
Ph.D.	NA	NA
Value Added Program	Certificate Course in Fruit Processing & Wine Technology	80
	Certificate Course in Biofertilizers & Biopesticides	47

P. G. STUDENT INDUCTION	Yes
ACADEMIC PLANNINGS	Yes
BRIDGE COURSE TAUGHT	Yes
REMEDIAL COURSE TAUGHT	Yes

3. Student Performance

A. Result Analysis (Winter 2023) UG & PG:

Programme Name	Number of students who appeared in the final year examination	Number of students who passed in final year examination	Pass Percentage
B.Sc Sem I Microbiology	166	115	69.27%
B.Sc Sem III Microbiology	132	112	84.84%
B.Sc Sem V Microbiology	121	112	92.56%
MSc Sem I Microbiology	22	14	66.66%
MSc Sem III Microbiology	20	18	90%

B. Result Analysis (Summer 2023) UG & PG: (Yet to be declared by University)

Programme Name	Number of students who appeared in the final year examination	Number of students who passed in final year examination	Pass Percentage
B.Sc Sem II Microbiology	-	-	-
B.Sc Sem IV Microbiology	-	-	-
B.Sc Sem VI Microbiology	-	-	-
MSc Sem II Microbiology	-	-	-
MSc Sem IV Microbiology	-	-	-

C. Achievements

A- (Medals/Awards/Prizes at University level):

Sr. No.	Name of the Student	Class	Title
-	-	-	-

B- Merit Position of UG Students in RTMNU:

Sr. No.	Year	Name of the Students	Merit Position
-	-	-	-

C- Merit Position of PG Students in RTMNU: (Yet to be declared by University)

Sr. No.	Year	Name of the Students	Merit Position
-	-	-	-

4. Student's Progression:

No. of Students Enrolling in Higher Education	Name of Institution joined	Name of Program admitted to
Winter 2023	-	-
UG to UG to PG	-	-
-	-	-
Summer 2024	-	-
UG to UG to PG	-	-
-	-	-
PG to Research	-	-
Placement	-	-
On-Campus	-	-
-	-	-
Off-Campus	-	-
-	-	-

(i) Students' publication in Conferences/ Journals:

Title of the Paper	Name of Author	Title of journal	Year of publication
-	-	-	-

(ii) Students' participation in Seminar/ Conferences:

Sr. No.	Name of Students	Conference type	Participation as
-	-	-	-

(iii) Students' Extension Activity/ Extracurricular activity

Sr. No.	Name of the activity	The number of students who Participated
1.	Calendar making competition (14 th September 2023)	70 students participated
2.	Rangoli competition (14 th September 2023)	50 students participated
3.	International webinar on Biosafety: A mandatory laboratory ritual (20 th October 2023)	100 students participated
4.	Dental checkup camp (28 th December 2023)	29 students participated
5.	Plant Tissue Culture workshop (9 th February 2024)	21 students participated
6.	Scientific Model Making Competition (24 th February 2024)	61 students participated
7.	State level workshop on Career Crafting in Sustainability Management (7 th March 2024)	170 students participated

(iv) Participation of Students in online/MOOCs courses/ NPTEL/ SWAYAM

Sr. No.	Name of the Students	MOOCs / NPTEL/ SWAYAM
-	-	-

5. Faculty**I. Research Paper Publications****A. Total Number of publications: 01**

- i) International - 01
- ii) National -

B. Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of Journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citation
Phytochemical study and testing of Ocimum sanctum's for Antioxidant effects	N. Sundaramoorthy, AS Manapure, N Ramasamy, C Karthika, Pranita B. Gulhane , S. Malode, S.P. Chaudhari, M.G.	International Journal of Zoological	2024	-	S.S.E.S.A's Science College, Congress Nagar, Nagpur-12	-

	Shinde	Investigations				
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C. Faculty participation in conferences/seminars/workshops and symposia:

Name of the Faculty	Title of Conference/ Seminar/ workshop Attended	Period	Level International / National/State /University /College	Whether Presented papers	Whether abstract /paper published in Souvenir /Abstract Book
Dr. Pranita Gulhane	National Conference on "Scientific Approaches for Sustainable Development"	4 th & 5 th December 2023	National	Yes (Oral)	Yes
Dr. Pranita Gulhane	International Conference on "Microbiological Research: Current Challenges & Future Perspectives"	9 th – 11 th January 2024	International	Yes (Oral)	Yes
Dr. Pranita Gulhane	Self- Paced Virtual International Symposium on "Water"	22 nd - 26 th March 2024	International	No	No
Ms. Sanchari Sarkar	Microbiology Workshop on "Explore the world of Microbes and Superbugs"	4 th December 2023	College Level	No	No
Ms. Priya Gaidhane	Microbiology Workshop on "Explore the world of Microbes and Superbugs"	4 th December 2023	College Level	No	No
Ms. Nupur Deshmukh	Microbiology Workshop on "Explore the world of Microbes and Superbugs"	4 th December 2023	College Level	No	No
Ms. Pallavi Butle	Microbiology Workshop on "Explore the world of Microbes and Superbugs"	4 th December 2023	College Level	No	No
Ms. Sarika Tekade	Microbiology Workshop on "Explore the world of Microbes and Superbugs"	4 th December 2023	College Level	No	No

Ms. Ankita Manapure	Microbiology Workshop on “Explore the world of Microbes and Superbugs”	4 th December 2023	College Level	No	No
Ms. Sayali Sangole	Microbiology Workshop on “Explore the world of Microbes and Superbugs”	4 th December 2023	College Level	No	No
Ms. Anjali Pogade	Microbiology Workshop on “Explore the world of Microbes and Superbugs”	4 th December 2023	College Level	No	No
Ms. Triveni Pardhi	Microbiology Workshop on “Explore the world of Microbes and Superbugs”	4 th December 2023	College Level	No	No
Ms. Sanchari Sarkar	State Level Workshop on “Career Crafting in Sustainability Management”	7 th March 2024	State level workshop	No	No
Ms. Priya Gaidhane	State Level Workshop on “Career Crafting in Sustainability Management”	7 th March 2024	State level workshop	No	No
Ms. Nupur Deshmukh	State Level Workshop on “Career Crafting in Sustainability Management”	7 th March 2024	State level workshop	No	No
Ms. Pallavi Butle	State Level Workshop on “Career Crafting in Sustainability Management”	7 th March 2024	State level workshop	No	No
Ms. Sarika Tekade	State Level Workshop on “Career Crafting in Sustainability Management”	7 th March 2024	State level workshop	No	No
Ms. Ankita Manapure	State Level Workshop on “Career Crafting in Sustainability Management”	7 th March 2024	State level workshop	No	No
Ms. Sayali Sangole	State Level Workshop on “Career Crafting in Sustainability Management”	7 th March 2024	State level workshop	No	No

Ms. Anjali Pogade	State Level Workshop on “Career Crafting in Sustainability Management”	7 th March 2024	State level workshop	No	No
Ms. Triveni Pardhi	State Level Workshop on “Career Crafting in Sustainability Management”	7 th March 2024	State level workshop	No	No

D. Awards to Faculty members: Nil

Name of Teacher	Title of the Award	Title of Agency/ Conference	National / International
-	-	-	-

6. Number of functional MoUs with institutions, other universities, industries, corporate houses, etc. during the year

The organization with which MoU is signed	Year of signing MoU	Duration	List the actual activities under each MOU year wise	Number of students/teachers who participated under MoUs
Microbiologists Society, India	23 rd August 2022	5 Years	Calendar making competition (14 th September 2023)	70 Participants
Microbiologists Society, India	23 rd August 2022	5 Years	Rangoli competition (14 th September 2023)	50 Participants
Swargiya Dadasaheb Kalmegh Smruti Dental College & Hospital Wanadongri, Nagpur	16 th September 2021	5 Years	Dental checkup camp (28 th December 2023)	29 Participants
Bharat Eco Solutions & Technologies, Pune	10 th May 2023	5 Years	State Level Workshop on “Career Crafting in Sustainability Management”	170 Participants

7. Research funds sanctioned and received from various agencies, industries and other organizations: Nil

Nature of the Project	Duration	Name of funding Agency	Amount Sanctioned	Amount Received
-	-	-	-	-

8. Books Published: Nil

Author	Book		Book Edited
	Title	ISBN and Date	Chapter

9. Research Guidance by Faculty during the year: Nil

Name of the guide	Ph.D.		
	Awarded	Submitted	Registered
-	-	-	-

10. Generation of funds through internal and external sources such as donations, consultancy, self-financing courses and so on: Nil

Name of the nongovernment funding agencies/ individuals/ self-financing courses /consultancy service.	Purpose of the Grant/Fund	Fund generated in rupees.
-	-	-

11. Alumni Engagement

a. Contributes significantly to the development of the institution through financial and other supports.

- Dr. Asifa Qureshi, Senior Scientist, NEERI, Nagpur, alumna of B.Sc. Microbiology 1991 pass out batch performs the duty as an External examiner in Microbiology department's practical exam.
- Dr. Savita Movade, Entrepreneur in biofertilizer production, Nagpur, alumna of 1987 pass out batch of B.Sc. was invited as a guest speaker for Skill based course on Biofertilizers & Biopesticides.
- Dr. Samiksha Raut, Associate Professor, University of Alabama, Birmingham, U.S.A, alumna of 2000 pass out batch of B.Sc. was invited as a guest speaker for the Seminar of Career Opportunities in Abroad.
- Dr. Ashish Polkade, Director, Bharat Eco Solutions & Technologies, Pune, alumni of 1999 pass out batch of B.Sc. was invited as a Resource Person in Skill Development & Entrepreneurship Workshop.

11. Action Plan of the Department

Different activities are planned to conduct in the upcoming academic session (2024-2025) which includes-

- Installation of Microbiologists Society India Students' unit.

- Welcome and Felicitation of B.Sc. and M.Sc. Microbiology students.
- National/ International conference/ workshop/ seminar/ symposium.
- Guest lectures of Eminent Academicians/ Scientists/ Researchers.
- Debate competition.
- Quiz competition.
- Scientific Model exhibition
- Calendar Making competition.-
- Agar Art competition

12. Best Practices of the department

Department always organizes various activities for the benefit of students. Under Microbiologists Society India, UG and PG microbiology students are encouraged to participate in various academic and extracurricular activities at college level as well as activities those organized by MBSI. Teachers- students' interaction is encouraging which inculcate competitive and humanitarian spirit in the students. Those activities are given as under-

- Bridge course conducted for newly admitted students for B.Sc. Microbiology.
- Microbiologists Society student's unit inaugurated and various departmental activities are organized for students.
- "Best Student award" is given in collaboration with Microbiologists Society, India to one student each from B.Sc. and M.Sc. from Microbiology Department.
- Students Seminars are conducted on the topics related to Life Sciences.
- Calendar making competition on Life Sciences was conducted.
- Scientific model competition was organized.
- Workshops & Webinars organized for students & faculty.
- Calendar making activity on biography of Founder President Dr. Panjabrao alias Bhausahab Deshmukh on the occasion of his Birth Anniversary.
- Parent Teacher Meetings was conducted in which interaction with students regarding any academic problem is discussed and solved.
- Career counseling was done to B.Sc. and M.Sc. final year students.

13. SWOT Analysis

Strength –

- Well-equipped Microbiology laboratory and experienced teaching staff and non-teaching staff.
- Most of the B.Sc. students get admission to M.Sc.
- Most of the students secure jobs after B.Sc. and M.Sc.

- All the teachers completes allotted syllabus in time satisfactorily.
- Department has good facilities for research activities.
- Excellent performance of Meritorious students in RTM Nagpur University examination.

Weakness- Limited laboratory space. Posts of regular teaching staff are vacant.

Opportunities- There are job opportunities in this field that is vaccine development, research analyst, pathology laboratory technician, Quality Control officer, Food and Drug Administrator officer, District Malaria officer, Clinical Laboratory technician, etc.

Threat- Technology moving out of Microbiology domain.

Date:

Head of the Department