

Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE, Congress Nagar, Nagpur

DEPARTMENT OF MICROBIOLOGY

INTERNAL ACADEMIC AUDIT

Session 2021-2022

1. A. Faculty Strength:

Faculty	Recruited	Vacant	Remarks
Regular	01		
CHB	03		
Ad-hoc	05		
Non-teaching	03		

B. Faculty Profile:

Name	Highest Qualification	Designation	Specialization	Teaching Experience
Dr. Pranita Gulhane	M.Sc., Ph.D., B.Ed.	Assistant Professor (Adhoc)	Microbiology	16 Years (Adhoc Lecturer 11 Years + C.H.B. Lecturer 05 Years)
Dr. Manpreet Kour	M.Sc., Ph.D., B.Ed., M.Phil.	Assistant Professor (Adhoc)	Microbiology	11 years (Adhoc Lecturer 10 + C.H.B. Lecturer 01 Year)
Mrs. Madhuri Walvekar	M.Sc.	Assistant Professor (CHB)	Biotechnology	3 Years (Adhoc Lecturer 01 + C.H.B. Lecturer 02)
Mrs. Nupur Deshmukh	M.Sc.	Assistant Professor (Adhoc)	Microbiology	5 years (Adhoc Lecturer 3.5 Years + 1.6 Years C.H.B. Lecturer)
Ms. Rakhi Khandelwal	M.Sc.	Assistant Professor (Adhoc)	Microbiology	01 Year (Adhoc)
Ms. Muskan Harde	M.Sc.	Assistant Professor (Adhoc)	Microbiology	01 Year (Adhoc)

Dr. Priya Fuke	M.Sc., Ph.D.	Assistant Professor (CHB)	Microbiology	01 Year (CHB)
Ms. Shivani Gohane	M.Sc., SET, GATE	Assistant Professor (CHB)	Microbiology	01 Year (CHB)
Dr. Sonali Shende	M.Sc., Ph.D.	Assistant Professor (CHB)	Microbiology	01 Year (CHB)

2. Student's strength:

Year	Group	Number of Students Admitted
B.Sc. Semester I	CMBT	79
	CBM	39
	CZM	37
	Total	
B.Sc. Semester III	CMBT	81
	CBM	39
	CZM	26
	Total	
B.Sc. Semester V	CMBT	86
	CBM	25
	CZM	29
	Total	
M.Sc.Semester I	Microbiology	26
M.Sc.Semester III	Microbiology	23
Ph.D.	-	
Value Added Program	Certificate course in Fruit processing & wine technology	32

3. Student's Performance:

A. Result Analysis (Winter 2021) UG & PG:

Programme Name	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BSc Sem I	143	143	100%
BSc Sem III	150	144	96%
BSc Sem V	140	140	100%
MSc Sem I	26	24	92.30%
MSc Sem III	23	23	100%

B. Result Analysis (Summer 2022) UG & PG:

Programme Name	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BSc Sem II	141	127	90%
BSc Sem IV	152	151	99.33%
BSc Sem VI	149	149	100%
MSc Sem II	24	24	100%
MSc Sem IV	23	22	95.65%

C. Achievements :

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

Sr.No.	Name of the Students	Class	Title
1	Ms. Bhoomika Mirashi	BSc II nd year (CMBT)	Won Consolation Prize in Self Designed Product Advertisement Competition organized by RTMNU on National Science Day -2022 conducted on 28 th February 2022
2	Mr. Himanshu Pachare	BSc Final year (CMBT)	Received Best Student Award from Microbiologists Society, India on 15 th August 2021
3	Ms. Rakhi	MSc Final year (CMBT)	Received Best Student Award from Microbiologists Society, India on 15 th August 2021

B- Merit Position of UG Students in RTMNU: Nil

Sr.No.	Name of the Students	Merit Position

C- Merit Position of PG Students in RTMNU: 02 Merit Students**Summer 21 Exam Merit Students List**

Sr. No.	Name of the Students	Merit Position
1	Ms. Supriya D. Nimkar	1 st Merit (CGPA 8.76)
2	Ms. Rakhi A. Khandelwal	2 nd (CGPA 8.64)

4. Student's Progression:

No. of students enrolling in higher Education	Name of Institution joined	Name of program admitted to
UG to PG (14)		
Ms. Osheen Khiyani	Hislop School of Biotechnology, Nagpur	MSc Biotechnology
Ms. Pranjalee Diwale	Hislop School of Biotechnology, Nagpur	MSc Biotechnology
Ms. Pranjali Joshi	Hislop School of Biotechnology, Nagpur	MSc Biotechnology
Ms. Tanuja Sable	Science College, Congress Nagar, Nagpur	MSc Microbiology
Ms Neha Mahant	Science College, Congress Nagar, Nagpur	MSc Microbiology
Mr. Sudhanhu Pandherey	Science College, Congress Nagar, Nagpur	MSc Microbiology
Ms. Sejal Nilatkar	Science College, Congress Nagar, Nagpur	MSc Microbiology
Mr. Vaibhav Jaronde	Science College, Congress Nagar, Nagpur	MSc Microbiology
Ms. Vaishnavi Wairagde	Science College, Congress Nagar, Nagpur	MSc Microbiology
Ms. Rutika Kowe	Science College, Congress Nagar, Nagpur	MSc Microbiology
Ms. Asmita Wagh	Science College, Congress Nagar, Nagpur	MSc Microbiology
Ms. Vaishnavi Nannaware	Science College, Congress Nagar, Nagpur	MSc Microbiology
Mr. Parth Hedau	IIT, Jodhpur	MSc Physics
Mr. Anuj Khapekar	VNIT, Nagpur	MSc Physics
PG to Research (01)		

Ms. Muskan Harde	Department of Microbiology, Sevadal Mahila Mahavidyalaya, Nagpur	Ph.D.
Placement		
On-Campus	Nil	
Off-Campus (08)		
Ms. Sayliu Shetiye	Unijules Life Sciences Ltd., Hingna, Nagpur	Jr. Microbiologist- Quality control
Mr. Sangharsh Khonde	Virchow Biotech Private Ltd., Medchal-Malkajgiri, Telangana	Executive Trainee in Department of Manufacturing Plasma
Ms. Pooja Karemore	HiMedia Laboratories Pvt. Ltd., Nagpur	Junior Project Assistant
Ms. Sanskruti Kukade	HiMedia Laboratories Pvt. Ltd., Nagpur	Junior Project Assistant
Ms. Lavanya Shrivamwar	Haseeb Pharmaceuticals Pvt. Ltd., Nagpur	Assistant Chemist- Quality control
Ms. Sheetal Bante	Haseeb Pharmaceuticals Pvt. Ltd., Nagpur	Assistant Chemist- Quality control
Ms. Dhanshree Dhote	Coral Laboratories Ltd., Ghatkopar, Mumbai	Regulatory Affairs Executive
Ms. Mithila Jadhav	Vaunshdhara Fertility Centre, Nagpur	Junior Embryologist

(i) Students' publication in Conferences/ Journals: Nil

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
1.	MSc Microbiology I st & II nd year students	International Workshop on "Research Insights in Scientific Writing & Publication"	Student delegate
2.	BSc Final year Microbiology and MSc Microbiology I st & II nd	International Webinar on "Career opportunities of Life sciences in India and Abroad"	Student delegate

	year students		
3.	BSc Final year Microbiology and MSc Microbiology 1 st & 11 nd year students	National Webinar on "Demystifying vaccines: Prerequisite of the Era"	Student delegate

(iii) Students' Extension Activity/ Extracurricular activity:

Sr. No.	Name of the activity	Number of students Participated
1	Calendar making competition (19 th -30 th July 2021)	56 students participated
2	Calendar - 2022 making activity on "Biography of Dr. Panjabrao alias Bhausaheb Deshmukh" (27 th December 2021)	06 students participated
3	Volunteering in Vaccination Drive scheduled between 3 rd January 2022- 1 st February 2022	13 students participated
4	Visit to VNIT, Nagpur (28 th February 2022)	40 students visited
5	Microbiologists Society Student Unit formation (5 th April 2022)	213 student members enrolled
6	Agar art competition (5 th April 2022)	72 students participated
7	Scientific model competition (5 th April 2022)	41 students participated
8	National Webinar on "IP is all around you- An introduction to Intellectual Property Rights" (23 rd April 2022)	112 students participated

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

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

5. Faculty:

I. Research Paper Publications: 03

A. Total Number of publications:

- i) International 03
- 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
Antibacterial Potential of Ocimum sanctum and Bryophyllum pinnatum against Wound Pathogens, 7(3):155-161	Pranita Gulhane and Nishi Selote	International Journal of Pharmacy and Biological Sciences	2021		S.S.E.S.A's Science College, Congress Nagar, Nagpur-12	
Evaluation of Herbal Mouthwash to Combat Oral Pathogens, International Journal of Novel Research and Development, 11(1):1096-1100	Pranita B. Gulhane	International Journal of Novel Research and Development	2022		S.S.E.S.A's Science College, Congress Nagar, Nagpur-12	
Antimicrobial Potential of Garlic Extract- A New Approach to Combat Clinical Pathogens, 11(6): 1331-1336	Pranita B. Gulhane and Shital B. Bante	World Journal of Pharmacy and Biological Sciences	2022		S.S.E.S.A's Science College, Congress Nagar, Nagpur-12	

C. Faculty participation in conferences/seminar/workshop 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
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Pranita B. Gulhane	National level Webinar on "Women. Water and Development: Issues, Challenges and Opportunities"	14 th March 2022	National	Participation	-
Pranita B. Gulhane	National Workshop on "Reforms in National Assessment and Accreditation Process"	21 st March 2022	National	Participation	-
Pranita B. Gulhane	National Conference on "Innovative Technologies in Agriculture (NCITA-2022)	24 th & 25 th March 2022	National	Oral Presentation	Yes, Abstract published

D. Awards to Faculty members:

Name of Teacher	Title of the Award	Title of Agency/Conference	National / International
Pranita B. Gulhane	Senior Scientist Award in Microbiology (16 th June 2021)	Microbiologists Society, India	National
Pranita B. Gulhane	Best Young Scientist Award (16 th August 2021)	International Journal for Modern Trends in Science and Technology (UGC Approved Journal), Andhra Pradesh	National
Pranita B. Gulhane	Best Paper Award (24 th & 25 th 2022)	National Conference organized by Priyadarshini Bhagwati College of Engineering, Nagpur	National

6. MoUs signed with institutions of national and international importance, other universities, industries, corporate houses etc. during the year:

Date of MOU	Organization	Purpose/Activity	Student Participate under MOU
16 th September	Swargiya Dadasaheb Kalmegh Smruti	• Collaborative Research activity for	-

2021	Dental College & Hospital, Wanadongari Wadhamna Road, Hingna, Nagpur (MS)- 441110	publication of research papers, copyrights, patents <ul style="list-style-type: none"> • Expert faculty guest lectures • Visit to institute & its various departments • Training programmes • Oral Health Check-up camp 	
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7. Research funds sanctioned and received from various agencies, industry and other organizations: Nil

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

8. Books Published: Nil

Sr. No.	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 BSc Microbiology 1991 pass out batch performs the duty as an external examiner in Microbiology department's

practical exams.

- Dr. Sarita Movade, Entrepreneur in Biofertilizer Production, Nagpur, alumna of 1987 pass out batch was invited as a guest speaker for skill based course.
- Dr. Samiksha Raut, Associate Professor, University of Alabama, Birmingham, USA, alumna of 2000 pass out batch was invited as a guest speaker for Career opportunities in Abroad.

12. Action Plan of the Department:

Different activities are planned to conduct in the upcoming academic session (2021-2021) which includes-

- Inauguration of Microbiologists Society 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

13. 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 extra-curricular activities at college level activities well as those organized by MSI. Teacher-student 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 of BSc & MSc Microbiology.
- Microbiologists Society Student Unit inaugurated & under it various departmental activities are organized for students.
- 'Best student Award' is given in collaboration with Microbiologists Society, India to one student each from BSc & MSc student of Microbiology.
- Students Seminars are conducted on Life Sciences.

- Calendar making competition on Life Sciences was conducted.
- Scientific model exhibition was organized.
- Agar art competition was organized.
- Microbiology students' participation as volunteer in Vaccination Drive of COVID-19 organized at college.
- International workshops & webinars organized for students & faculty.
- Calendar making activity on Biography of Founder President Dr. Panjabrao alias Bhausaheb Deshmukh on the occasion of his Birth Anniversary.
- Parent Teacher Meetings are conducted.
- Under Teacher Mentor Scheme, interaction with students regarding any academic problem is discussed & solved.
- Career counseling is done to final year students of BSc & MSc students.

14.SWOT Analysis:

➤ **Strength-** Well equipped Microbiology laboratory and experienced teaching staff and Nonteaching staff.

Most of the B.Sc. students get admissions to M.Sc.

Most of the students secure jobs after B.Sc. and M.Sc.

All teachers complete allotted syllabus in time satisfactorily.

Department has good facilities for research activities.

Excellent performance of Meritorious students in R.T.M. Nagpur University examination.

➤ **Weakness-** Limited Laboratory space. Posts of Regular Teaching staff are vacant.

➤ **Opportunities-** There are job opportunities in this field i.e. Vaccine Development, Research Analyst, Pathology Laboratory Technician, Quality Control officer, Food and Drug Administrative officer, District Malaria officer, Clinical Laboratory Technician etc.

Date: 18/01/23
Pranita B. Gulhane
 Dr. Pranita B. Gulhane



A.P. Bobdey
 Head of the Department
 Prof. A.P. Bobdey 11