

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
DEPARTMENT OF MICROBIOLOGY

ANNUAL REPORT 2022-2023

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Microbiology department is one of the leading departments which provides best education in Microbiology and create innovator. Students are inspired and motivated to develop their interest in Microbiology subject and help them to built strong career. Qualified and dedicated teaching staff includes one regular faculty and six Ad-hoc and two C.H.B. lecturers. There are Four supporting nonteaching staff.

Students Strength:

In U.G. and P.G. Microbiology department total students admitted were 427 and 43 respectively.

Result Analysis:

Overall result of odd and even semesters for U.G. and P.G. department is above 89.47%.

A. Students Achievements

(Medals/Awards/Prizes at University level):

Sr. No.	Name of the Student	Class	Title
1	Mr. Shashank Tidke	B.Sc. IIIrd year	Dr. N.U. Rao Gold medal for Securing the highest marks in the B.Sc. Microbiology summer 2023 exam.

B. IIT JAM Qualified Students (2022-23)

Sr. No.	Name Of the Students	Subject	All India Rank
1	Ronit T. Banerjee	Biotechnology	386
2	Aditya A. Kallattu	Biotechnology	645
3	Shashank P. Tidke	Biotechnology	1085
4	Renuka Joshi	Geology	152
5	Aarti Dongarwar	Geology	340
6	Purva Meshram	Geology	374
7	Neha Senkuwar	Geology	897
8	Ronit T. Banerjee	Microbiology	386

9	Aditya A. Kallattu	Microbiology	645
10	Shashank P.Tidke	Microbiology	1085
11	Pooja Balapure	Microbiology	3055

C. Merit Position of UG Students in RTMNU:

Sr. No.	Year	Name of the Students	Merit Position
1	Summer	Nazish Jeevaji	7 th Merit
2	2022	Sakshi Bobdey	8 th Merit
3	2022	Komal Waghmare	9 th Merit
4	2022	Vrunda Borkar	8 th Merit

D. Merit Position of PG Students in RTMNU:

Sr. No.	Year	Name of the Students	Merit Position
1	Summer 2023	Ms. Hitesha Wadibhasme	1 st Merit(CPGA-9.00)
2	2023	Ms. Tanuja Sable	2 nd Merit(CPGA-8.84)
3	2023	Ms. Neha Mahant	4 th Merit(CPGA-8.54)
4	2023	Ms. Savita Khandate	5 th Merit(CPGA-8.47)

1. Student's Progression:

No. of Students Enrolling in Higher Education	Name of Institution joined	Name of Program admitted to
Summer 2022		
UG to UG to PG (04)		
Ms. Nazish Jeevaji	IISc, Bangalore	M.Sc. Biotechnology
Mr. Ankit Pajai	Hislop College, Nagpur	M.Sc. Biotechnology
Ms. Sakshi Bobde	Hislop College, Nagpur	M.Sc. Biotechnology
Ms. Sharvari Kshirsagar	Hislop College, Nagpur	M.Sc. Biotechnology
Summer 2023		
UG to UG to PG (14)		
Ms. Rutuja Ramteke	Science College Congress Nagar, Nagpur	M.Sc. Microbiology
Ms. Arshiya Mushtaque	Science College Congress Nagar, Nagpur	M.Sc. Microbiology
Mr. Ronit Banerjee	NIV, Pune	M.Sc. Virology

Mr. Adithya kalalttu	IISER, Pune	Integrated Ph.D.Programme
Mr. Shashank Tidke	Savitribai Pune University,Pune	M.Sc Biotechnology
Ms. Shreshtha Chanda	VIT .Vellore	M.Sc. Applied Microbiology
Ms. Poonam Singh	ICFAI Business School, Mumbai	MBA
Mr. Raj Rajkarosiya	D.Y. Patil College,Pune	M.A.English
Ms. Kaushalya Dhabale	Hislop College, Nagpur	M.Sc. Biotechnology
Mr. Tejas Shripal	RGBC, Nagpur	M.Sc. Biotechnology
Ms. Vrushali Yawalkar	RGBC, Nagpur	M.Sc. Biotechnology
Mr. Shushant Nimborkar	VIT, Vellore	M.Sc. Biomedical Genetics
Ms. Vaishnavi Shimpi	University of glassgow	M.Sc. Biomedical Sciences
Ms. Anshita Arora	University of Nottingham	M.Sc. Cancer Immunology & Biotechnology
PG to Research	Nil	Nil
Placement		
On-Campus		
Ms. Triveni Pardhi	Science College, Congress Nagar, Nagpur	Assistant professor(Adhoc)
Off-Campus		
Ms. Neha Mahant	Care hospital, Nagpur	Clinical research coordinator
Ms. Aishwarya Mohatkar	IGGMC, Nagpur	Clinical research coordinator

2. Students' Extension Activity/ Extracurricular activity

Sr. No.	Name of the activity	The number of students who Participated
1.	CALANDER MAKING COMPETITION(19 th -30 th July 2022)	56 students participated
2.	STATE LEVEL WORKSHOP ON "ENTREPRENEURSHIP: GATEWAY FOR SCIENCE SCHOLARS" (20 th December 2022)	200 students participated

3.	WORKSHOP ON “COVID-19 DETECTION BY RT-PCR METHOD” (2 nd January 2023)	40 Students Participated
4.	Scientific Model making competition on “INNOVATIVE IDEAS IN SCIENCE FOR SOCIETAL APPLICATION”(28 th February 2023)	89 Students Participated
5.	SKILL BASED WORKSHOP ORGANIZED “ Intellectual INTERCOLLEGIATE Learning Strategies & Skill Development” (4 th March 2023)	165 Students Participated
6.	SEMINAR ON “STRATEGIZING & PLANNING FOR COMPETITIVE EXAMS”(18 th March 2023)	120 Students Participated
7.	DENTAL CHECK-UP CAMP & WEBINAR ON “DENTAL HYGIENE”(19 th April 2023)	112 Students Participated

I. Research Paper Publications

A. Total Number of publications: 03

- 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
Efficacy of Commonly Used Decontaminants on Bacterial Contamination on Food Garnish	Pranita Gulhane	International Journal of Innovative Research in Technology	2023		S.S.E.S.A's Science College, Congress Nagar, Nagpur-12	-

Antimicrobial potential of Andrographis paniculata against Oral Pathogens	Pranita Gulhane and Manali kakde	International Journal of Research and Analytical Reviews	2023		S.S.E.S.A's Science College, Congress Nagar, Nagpur-12	
Comparitive Account on Antibacterial Activitiy and Phytochemical Analysis of Green Tea and Black Tea	Pranita Gulhane and Asmita Phopate	Journal of Emerging Technology and Innovative Research	2023		S.S.E.S.A's Science College, Congress Nagar, Nagpur-12	

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	The 108 th Indian Science Congress on "Science & technology for Sustainable Development with Women Empowerment"	January 3 rd -7 th , 2023	National	Poster Presentation	Yes, Abstract published
Dr. Pranita Gulhane	International Conference on "Recent Trends in Multi -Disciplinary Research"	14 th - 15 th January 2023	International	Oral Presentation	Yes Abstract publication
Dr. Pranita Gulhane	"National Conference on Biotechnology for Better Tomorrow"	January 22 nd -24 th 2023	National	-	-
Dr. Pranita Gulhane	National conference on "Research Innovation in ICT & Computing Technology"	March 27 th -28 th 2023	National	Oral presentation	Yes, Abstract published

Dr. Pranita Gulhane	National Conference on ‘‘Women in Science & Entrepreneurship.’’	April 2 nd 2023	National	-	-
Ms. Sanchari Sarkar	The 108 th Indian Science Congress on ‘‘Science & Technology for Sustainable Development with Women Empowerment’’	January 3 rd -7 th ,2023	National	-	-
Ms. Priya Fuke	The 108 th Indian Science Congress on ‘‘Science & Technology for Sustainable Development with Women Empowerment’’	January 3 rd -7 th ,2023	National	-	-
Ms. Shivani Gohane	The 108 th Indian Science Congress on ‘‘Science & Technology for Sustainable Development with Women Empowerment’’	January 3 rd -7 th ,2023	National	-	-
Ms. Madhuri Walvekar	The 108 th Indian Science Congress on ‘‘Science & Technology for Sustainable Development with Women Empowerment’’	January 3 rd -7 th ,2023	National	-	-
Dr. Manpreet Kaur	The 108 th Indian Science Congress on ‘‘Science & Technology for Sustainable Development with Women Empowerment’’	January 3 rd -7 th ,2023	National	-	-

Dr. Sapna Baghel	The 108 th Indian Science Congress on “Science & Technology for Sustainable Development with Women Empowerment”	January 3 rd -7 th , 2023	National	-	Yes
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C. Awards to Faculty members:

Name of Teacher	Title of the Award	Title of Agency/ Conference	National / International
Dr. Pranita Gulhane	Research excellence award-2023 (25 th May 2023)	Institute of researcher, Wayand, Kerala	National
Microbiology Department	Best Microbiology Department Award for the session 2022-2023(9 th January 2024)	Microbiologist Society, India	National

BEST PRACTICES OF THE DEPARTMENT

Department always organizes various activities for the benefit of students. Under Microbiologist 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-

BEST STUDENT AWARD

Department of Microbiology in collaboration with Microbiologists Society, India has awarded Best student each from UG & PG Department of Microbiology- Mrs. Raj Rajkarosiya & Ms. Kanchan Selukar respectively by offering a Best Student Award memento at the hands of Hon’ble Principal Prof. Mahendra Dhore. Award ceremony was held on 26 January 2023.



Best Student Award 26/01/23

CALENDAR MAKING COMPETITION ORGANIZED

Calendar making competition on the theme of Life Sciences entitled “Microbiology & Biotechnology for Better Environment” was organized by Department of Microbiology, S.S.E.S.A’s Science College, Nagpur during 05th -20th September 2022. Calendar making competition was conducted under the chairmanship of Hon’ble Principal Prof. Mahendra Dhore, Coordinator- Prof. Atul Bobdey and Convener- Dr. Pranita Gulhane. A total of 89 students from UG & PG Microbiology & UG Biotechnology of the college have participated the same and expressed the creativity in it.

Prof. S.V. Ghonmode and Dr. S.G. Kadu judged the competition and selected three groups as winner each one from UG Microbiology, UG Biotechnology and PG Microbiology among 18 participated groups comprising 89 students. Winner groups are as follows:

BSc Ist Year Biotechnology: Adithya Kallattu, Shreshtha Chanda, Mohini Bhajanghate, Shashank Tidke & Ronit Banerjee. BSc Ist Year Microbiology: Yashika Bagde, Maithili Thakare, Sanika Raut Mamta Yadav & Ishita Ramteke. MSc. Final Year Microbiology: Triveni Pardhi, Tanavi Raut, dipti Charde, Akshara Irkulwar & Rutika Kowe. Cash Prizes, trophies & certificates were distributed at the hands of Hon’ble Principal sir on 26th January 2022.

Microbiology Students have also prepared calendar 2023 on biography of Founder president Dr. Punjabrao alias Bhausaheb Deshmukh.



Calendar Making Competition

WEBINAR ON INDIANS SPEAKING FROM ABROAD

Lecture Series of 20 lectures on the Theme “Indians speaking from Abroad” was conducted by Department of Microbiology in collaboration with Microbiologists Society India through Zoom platform on every Sunday during 21st August 2022 to 1st January 2023. Twenty different speakers from various countries like USA, Malaysia, China, Finland, Italy, South Korea, France, New York, Saudi Arabia, Dubai- UAE, Kenya, The Netherlands, UK and Ireland. Under the chairmanship of Hon’ble Principal Prof. Mahendra Dhore sir and Patron Hon’ble Dr. Arvind Deshmukh sir, President, Microbiologists Society, India, the lecture series proceedings have been conducted by Convener Dr. Pranita Gulhane. These lectures were very much helpful to inspire the students to pursue their education and career in abroad.

All the 20 lectures of Indians residing in various countries in Abroad emphasized on Career opportunities in Abroad, the process of pursuing Ph.D., discussions regarding challenges faced in higher education. The eminent Scientists and Professors speaking from Abroad explained how to prepare the Resume while appearing for any job interview and also gave an idea of the academic and industrial culture in various countries. The speakers ensured thorough guidance required by the students, academicians and researchers and provided their Email IDs for future correspondence in this regard. Many participants from academics and industries have benefited from this lecture series with huge response. Speakers were felicitated by posting a Certificate & Memento at their respective Indian address for sharing their knowledge on virtual platform. Hon’ble Principal Prof. Mahendra Dhore and President MBSI- Hon’ble Dr. Arvind Deshmukh appreciated the efforts of Dr. Pranita Gulhane for this grand success of the lecture series.

STATE LEVEL WORKSHOP ON “ENTREPRENEURSHIP: GATEWAY FOR SCIENCE SCHOLARS”

Department of Microbiology in collaboration with Bharat Eco Solutions & Technologies (BEST), Pune has organized State Level Workshop on “Entrepreneurship: Gateway for Science Scholars” on 20th December 2022. More than 200 participants from various colleges in Nagpur have taken benefit of this workshop having Resource Person Dr. Ashish Polkade- alumni of the college & Founder of BEST, Pune. Hon’ble Principal Prof Dhore sir inaugurated the programme. Coordinator Prof Bobdey sir & Convener Dr. Pranita Gulhane were present.

WORKSHOP ON “COVID-19 DETECTION BY RT-PCR METHOD”

Department of Microbiology has conducted one day Workshop on : “COVID-19 Detection by RT-PCR Method” in Dhruv Pathology Lab., Nagpur on 28th January 2023. Hon’ble Principal Prof Dhore sir along with Coordinator Prof. Bobdey sir & Convener Dr. Pranita Gulhane have made the opportunity available to PG Microbiology students to learn the molecular biology techniques there.



COVID-19 Detection Workshop

Scientific Model making competition on “INNOVATIVE IDEAS IN SCIENCE FOR SOCIETAL APPLICATION”

Date: 28-02-2023

Scientific model making competition entitled “Innovative ideas in Science for Societal Application” on the occasion of 125th Birth Year Celebration of Dr. Panjabrao alias Bhausaheb Deshmukh, Centenary Year Celebration of R.T.M. Nagpur University & National Science Day was organized by Department of Microbiology and Biotechnology, S.S.E.S.A’s Science College, Nagpur on 28th February, 2023. Scientific Model making competition was conducted under the chairmanship of Hon’ble Prof. Mahendra Dhore, Principal, Science College, Nagpur, Coordinator Respected Prof. Atul Bobdey and Convener-

Dr. Pranita Gulhane, Dr. Prashant Maheshwary, Dean Faculty of Science & Technology, R.T.M. Nagpur University, Nagpur graced the occasion as a Chief Guest. A total of 89 students comprising of 49 groups from UG Microbiology & Biotechnology as well as PG Microbiology of the college have participated the same and expressed the creativity in it.

Prof. Punita Tiwari and Dr. Shilpa Gedam judged the competition and selected three groups as winner and two consolation prizes. The first prize (Wrukshani Doble and Madhur Patil from B.Sc II year, CMBT), Second prize (Reeta Bhawalkar and Krutika Ganthade from B.Sc II year, CMBT) and Third prize (Maithili Thakare and Arpit Kambe from B.Sc I year, CMBT), first consolation prize (Dipti Charde and Akshara Irkulwar from M.Sc Final year Microbiology) and the second consolation prize (Sejal Bharne and Dipali Dudhe from M.Sc Final year Chemistry).



Scientific Model Competition organized by Microbiology Department on 28/02/2023

INTERCOLLEGIATE SKILL BASED WORKSHOP ORGANIZED

Intercollegiate workshop on “Intellectual Learning Strategies & Skill Development” on the occasion of 125th Birth Year Celebration of Dr. Panjabrao alias Bhausaheb Deshmukh, Centenary Year Celebration of R.T.M. Nagpur University & National Science Day was organized by Department of Microbiology and Biotechnology, S.S.E.S.A’s Science College, Nagpur on 4th March, 2023. The workshop was conducted under the chairmanship of Hon’ble Prof. Mahendra Dhore, Principal, Science College, Nagpur, Coordinator- Prof. Atul Bobdey and Convener- Dr. Pranita. Gulhane. The workshop was on three different topics guided by three different resource persons. Dr. Sarita Mowade - alumni of

the college (Biofertilizers & Biopesticides Production process), Dr. Sanjeev Patankar (Opportunities in Fruit Processing & Wine Technology), Dr. Sunil Kokane (Immunodiagnosics & Molecular Biology Techniques) respectively conducted the sessions of 165 students.

SEMINAR ON “STRATEGIZING & PLANNING FOR COMPETITIVE EXAMS”

Department of Microbiology organized one day seminar on “Strategizing & Planning for Competitive Exams” on 18th March 2023 in the presence of Hon’ble Principal Prof. Mahendra Dhore sir, Coordinator Prof. Bobdey sir, Convener Dr. Pranita Gulhane. Resource Person was the alumni of the college Ms. Mamta Marar, Head, IFAS Competitive Exam Section, Pune. Students of UG & PG of science discipline have attended it.

DENTAL CHECK-UP CAMP & WEBINAR ON “DENTAL HYGIENE”

Department of Microbiology in collaboration with Swargiya Dadasaheb Kalmegh Smuti Dental College & Hospital, Nagpur has organized Dental Check-up camp & Guest Lecture on “Dental Hygiene” on 19th April 2023. Dr. Ashish Lanjekar - the Chief Guest, Dr. Juzer Rasul -the Guest of Honour inaugurated the programme in gracious presence of Hon’ble Principal Prof. Dhore sir. Coordinator Prof. Bobdey sir & Convener Dr. Pranita Gulhane have contributed for the success of the programme. Students, teaching & non- teaching staff of the college have taken benefit of it.



Head of the Department

Dr. Pranita B. Gulhane

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