

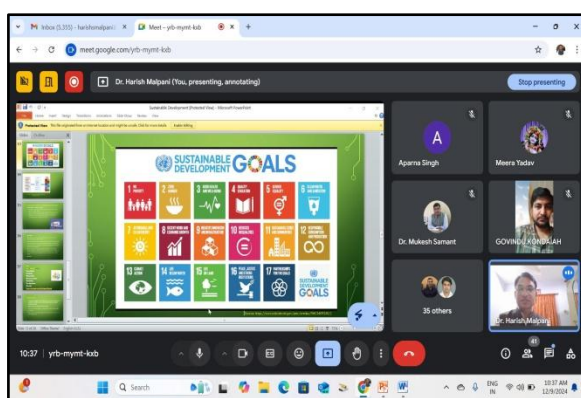
Annual Report of Microbiology Department

Shri RLT College of Science, Akola UG and PG Department of Microbiology Departmental Report (2024-25)

Each educational institute aims to equip students with necessary skills, promotes personal growth and development. Education must enable students for ever changing industrial challenges and contributes to personal and social development of students. Based on key factors of National Education Policy, Department of Microbiology always look forward towards the fundamental development of student by enhancing practical skills, experiential learning and making them future ready.

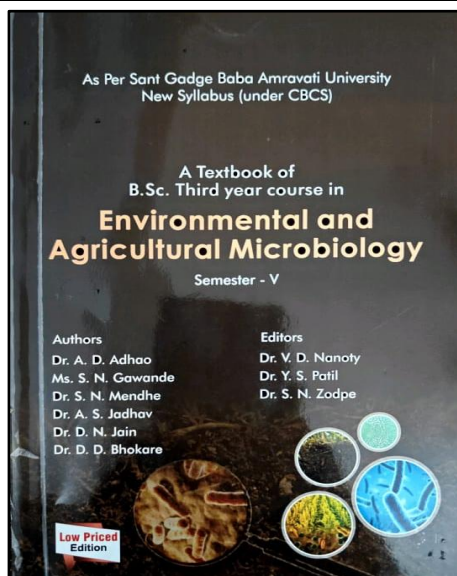
By providing quality culture and environment, Department of Microbiology offers education at undergraduate, postgraduate and research level. In the academic session 2024-25, total 37 students were admitted in M. Sc. course while around 350 students were enrolled in B. Sc. Microbiology. Dr. V. D. Nanoty, Dr. H. S. Malpani and Dr. S. N. Gawande put in a lot of efforts by providing best knowledge to the students.

In the academic session 2024-25, Dr. H. S. Malpani (Head, Department of Microbiology) worked as member of LEC committee for P.G. affiliation of SGBAU, Amravati and acted as active member of various renowned committees of SGBAU, Amravati. Besides that, he had delivered an invited talk on the topic “Anemia – Symptoms, Causes, Treatment and Diet” on 20th February 2025 in NSS camp held at Apoti Kh. conducted by Shri R.L.T. College of Science, Akola, and in NSS Camp conducted by Smt. Radhabai Sarda Arts, Commerce and Science College, Anjangaon Surji. He also worked as a jury member for poster competition in One day national Conference on Exploring the frontiers of Science, Collaboration, Innovation and Sustainability (NCEFSCIS-2025) dated on 08/02/2025. He also has worked as University coordinator of Microbiologist Society India. He has published research paper in reputed Journal and presented his work in conferences. He delivered a talk in refresher course organized by UGC MMTC Dr. Harisingh Gaur University, Sagar (MP) and S.G.B. Amravati University, Amravati.



Ms. S. N. Gawande was awarded with Ph. D. degree in 41st convocation of Sant Gadge Baba Amravati University Amravati under the supervision of Dr. V. D. Nanoty. She had completed her Ph.D. open defense viva in the Department of Microbiology, Shri RLT college of Science, Akola on 17th January 2025. She was felicitated by the department for her doctorate. She

also has published a text book for B. Sc. III Semester VI Based on syllabus approved by SGBA University, Amravati.



All the teaching staff of Department of Microbiology gets actively participated in various activities of the department and have presented their research work in various conferences. This year, total 19 PG students completed their project work under the guidance of Dr. H. S. Malpani and Dr. S. N. Gawande.

EVENTS ORGANIZED BY THE DEPARTMENT

1. On the job training/ Internship Program- 24/07/2024

The internship program “Internship/ On the Job Training (OJT) and Career Opportunities in the Microbiology field” had organized by the Department of Microbiology, Shri R. L. T. College of Science, Akola, in collaboration with Microbiologist Society India, Shri. Shivaji College of Arts, Science and Commerce, Akola, R. A. College, Washim and Chaitanya Agro Biotech Pvt. Ltd., Malkapur on 24th July 2024. Dr. V. D Nanoty, Dr. Rachana Pachori (HOD , Microbiology, R.A. College, Washim), Dr. S. N. Zodpe (HOD Microbiology, Shri Shivaji College, Akola) and Dr. H. S. Malpani actively guided students to get participated in training program. Expert members, Dr. Yogesh Narkhed and Dr. Hemant Bhadarkar from Chaitanya Pharma enlightened the various carrier opportunities and the actual techniques of active product formulation in pharmaceutical industry such as a laboratory preparation, media and chemical preparation, initial set up, final product and quality control. Total 60 students and teaching faculty have participated and attended the internship program.



Internship/ On the Job Training (OJT) and Career Opportunities in the Microbiology field

 In collaboration with  **Microbiologist Society's India**

Shri. R.L.T. College of Science, Akola
Shri. Shivaji College of Arts, Science and Commerce, Akola
R. A. Arts, Shri. M.K. Commerce and Shri. S. R. Rathi Science College, Washim

With
Chaitanya Agro Biotech Pvt. Ltd. Malkapur



2. National Conference on Multidisciplinary Research and Innovation (NCMRI 2024) – 27/09/2024

On 27th September 2024, Shri R.L.T. College of Science in collaboration with Microbiologist Society's India, organized National Conference on Multidisciplinary Research and Innovation (NCMRI 2024). In this event all the faculty members, UG and PG students of department of microbiology actively participated and presented their research work. In the recognition, more than 37 years whole hearted service of Principal Dr. V. D. Nanoty, was honored for his forthcoming superannuation by Dr. A. M. Deshmukh (President, Microbiologist Society India). All microbiology faculty members of SGBAU attended the felicitation program.



3. Educational Tour of B. Sc. III – 04/10/2024

As a part curriculum, every year the department conducts educational tours for UG and PG students. The educational tour was conducted to Mahan water purification plant on 4th October, 2024 for the students of B. Sc. III and M. Sc. Total 95 students took part in the tour along with 5 staff members. The students acquired the whole knowledge about the actual processes involved in water purification such as sedimentation, flocculation, aeration, chlorination and filtration by rapid sand filters. On the occasion of Wildlife week, the nature trail was also organized by the department for the students on the same day at Katepurna Sanctuary.



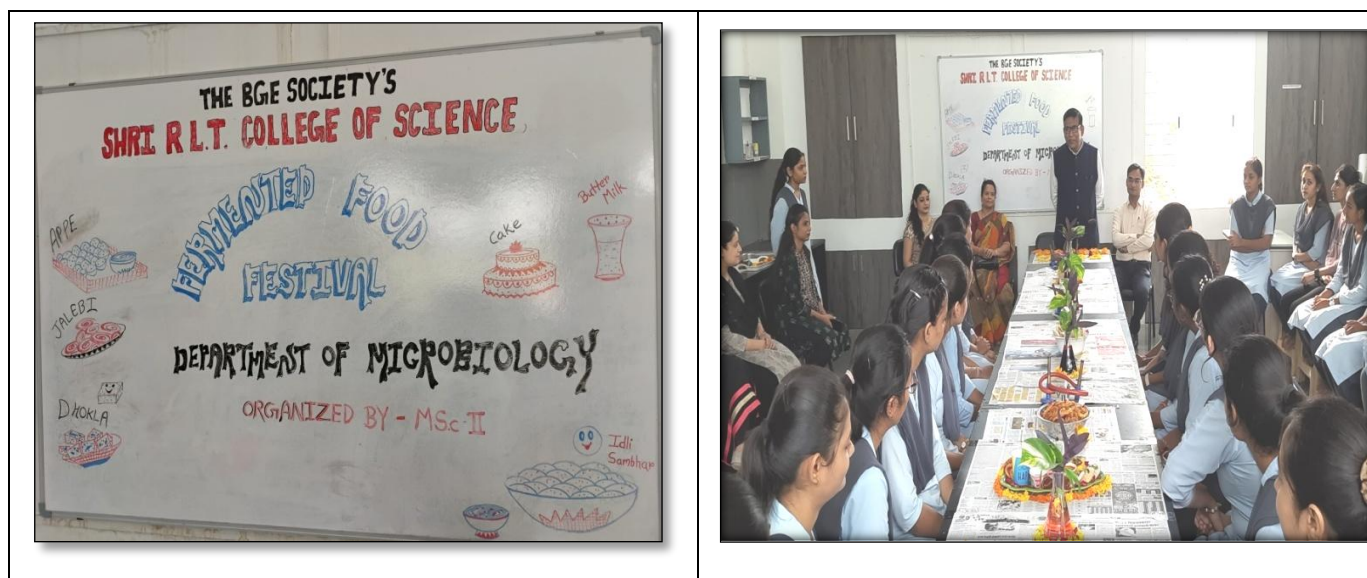
4. International Food Day Celebration – 16/10/2024

On occasion of International food day, Department of Microbiology celebrated Food Festival on 16th October 2024. Some basic and important fermented food items fermented by the biochemical activities of microorganisms includes pickles, soy sauce, cheese, idli and many fermented milk products such as yogurt and curd.

For understanding the importance of microorganisms in fermentation, the curriculum of M. Sc. II year includes a paper on Food and Fermentation technology. To enhance participative learning, the PG Department of Microbiology organized the fermented food festival. All the students from the M. Sc. II had participated in the preparation of various fermented foods.

Dr. V. D. Nanoty was chaired the event as the chief guest and congratulated the organizing committee and the students for organizing such a wonderful event. He also appreciated their efforts and encouraged the department to conduct such events in future. Dr. H. S. Malpani also praised the students for their outstanding work and explained importance of fermented food in day-to-day life. Dr. S. N. Gawande acknowledged the talent of students.

The students prepared innovative and delicious fermented food products such as Idli (from fermented rice and black gram), Dhokla (from fermented chickpeas), Jalebi (from), Appam (from fermented rice and green gram), buttermilk (from fermented milk), Cupcake (from), Cheddar Cheese (from fermented milk) and many more dishes.



Dr. V.D. Nanoty, Principal, Shri R.L.T College of Science, Akola retired from his services after around 40 years of dedication in the teaching field on 31st October 2024. During his service he guided thousands of students, under his guidance 9 students have been awarded with Ph.D. degree and there are 7 research scholars still working under his guidance. He was a Chairman of Board of Studies, SGBAU, Amravati for Microbiology and Biochemistry. He made

a rich contribution in the academic field. He contributed in syllabus framing of UG and PG Microbiology and Biochemistry (CBCS and NEP). He contributed in publication of several Microbiology textbooks. He was felicitated with Seva Gaurav Purskar in Principal Category of SGBAU, Amravati. He served the service as a State coordinator of MBSI. He also acted as a regional coordinator of NSS Advisory Committee of SGBAU, Amravati. Under his dedicated service and valuable guidance, the Microbiology department was awarded with the National level Best Department Award by Microbiologists Society India.



5. Guest lecture by Dr. Yogesh Rathi, Professor Harvard University, USA- 13/12/2024

Department of Microbiology had organized a guest lecture of Dr. Yogesh Rathi, Professor Harvard University, USA on 13th December 2024. The topic for lecture was “Carrier opportunities in and beyond Microbiology”. Event was conducted under guidance of Dr. Pavanji Maheshwari Hon. Secretary of the B.G.E. Society, Akola. Principal, Dr. R. D. Chandrawanshi, Dr. H. S. Malpani, Dr. S. N. Gawande and all staff of department of Microbiology and Biochemistry were present. With over 100 students in attendance, the lecture was impactful experience that sparked meaningful discussions, clarified complex concepts and ignites a passion for learning microbiology that will continue to get more carrier opportunities in and beyond microbiology.



6. **Microbiology Calendar Publication :**

The calendar competition was organized by Microbiologist Society India for students of Microbiology and Biochemistry at a national level. This year, Dr. H. S. Malpani holds the position of chairman of National Calendar committee MBSI. More over 35 institutes from all over India were participated in the competition with theme “Biotechnology for Industrial development”. One of the best calendars was selected and published for the year 2025. Bhaskaracharya College of Applied Sciences, Delhi was the winner of the competition. Total 3500 copies of calendar were distributed to Microbiology department across the India



7. BLOOD testing and grouping camp.

On the Memorial Day of late Principal M. G. Joshi, under the guidance of Dr. V. D. Nanoty the department has organized a blood grouping camp on 24th December 2024. The reports were provided on the same day. Total 76 beneficiaries profited from this camp. Adv. Motisinghji Mohta (President, B.G.E Society, Akola), Dr. Pavanji Maheshwari (Hon. Secretary), Dr. V. D. Nanoty (Principal, Shri R.L.T College of Science, Akola) and other members of the B.G.E Society congratulated the organizing committee for conducting the blood testing camp. The post graduate students of Biochemistry & Microbiology volunteered in the camp, which was one of the best practices of department of Microbiology.

On 20th February 2025, blood group testing camp was organized by department of Microbiology in NSS camp held by Shri R. L. T. College of Science, Akola at Apoti village, District Akola. Blood grouping of the Zilla Parshid School students were carried out by the staff members of department of Microbiology and the students of NSS camp were volunteered in the camp. Total 45 students profited from this camp.



8. Health Camp- 07/02/2025

A health checkup and organ donation awareness camp was organized jointly by Government Medical College and Civil Hospital, Akola in collaboration with The Berar General

Education Society, Shri R.L.T College of Science, Akola along with Department of Microbiology, Women Cell and ICC, Department of Physical Education and Sports, NSS and NCC on Friday, 07th February, 2025. It aimed to provide free accessible medical screenings and consultations to students and staff, with a primary focus on promoting preventive healthcare and early detection of potential health issues. It also aimed to raise awareness about common health concerns, and encourage regular health checkups.

Dr. R. D. Chandrawanshi (Principal, Shri R.L.T College of Science, Akola) along with other staff members, Dr. P. P. Deohate, Dr. H. S. Malpani (Head of Department Microbiology), Dr. R. P. Joshi (Chairman ICC), Dr. A. S. Sawarkar, Dr. S. N. Gawande, Smt. J. A. Gite (ICC member), Dr. K. M. Heda (NSS Programme Officer), Dr. S. R. Jaiswal (NSS Programme Officer) and Dr. R. M. Agrawal NCC Officer coordinately conducted the event successfully. The event started with felicitation programme of a team of doctors from Government Medical College and Civil Hospital, Akola. The coordinator, Dr. Niraj Shinde with his team of medical professionals, Dr. Aditi Rathod, Dr. Astha Jain, Dr. Govind A N, Dr. Shweta Meshram, Dr. Navaneeta Seal, Dr. Rupali Solnor, Dr. Balaji, Dr. Bhawana Sharma, Dr. Vennila, Shri. Rajesh Tale from different departments examined the staff and students on the occasion of this event.

The event witnessed enthusiastic participation from both students and staff members. Total 191 students and 9 staff members of college were screened across various health parameters including ENT, breast cancer, obesity, thyroid, general health concerns by a team of medical professionals.



9. National Science Day Celebration- 27/02/2025

On the occasion of National Science Day, Poster and Oral Presentation Competition on the theme “Recent Trends in Microbial Sciences” was organized by Department of Microbiology & Biochemistry. A total of 56 students participated in Poster Presentation Competition and 44 students Participated in Oral Presentations. During event Ms. Pratiksha Ghuge, Ms. Samiksha Ghaogare and Ms. Namrata Moraskar got 1st, 2nd and 3rd prize respectively at UG level while Ms. Pooja Bais and Mr. Jaypal Rathod were the winners at PG level. From PG Biochemistry Ms. Sneha Datkar secured 1st and Ms. Noorin Khan secured 2nd prize. All participants were awarded with certificates and memento was distributed to winners. Dr. R. D. Chandrawanshi, Principal Shri RLT College of Science & Dr. P. T. Agrawal inaugurated the event and appreciated participants and organizers. All staff members of the Microbiology & Biochemistry department took efforts to make the event successful.



The Berar General Education Society's
SHRI R. L. T. COLLEGE OF SCIENCE, AKOLA
(Re-accredited with 'A' Grade by NAAC)

ALL DEPARTMENTS
IN COLLABORATION WITH IQAC
Organize
**National Science Day
Celebration 2025**

Seminar / Poster Competition

- Department Level Poster Competition for UG (B.Sc.) Students
- Department Level Seminar Competition for PG (M.Sc.) Students

Timing: Theme: Recent Advancement in Respective Subjects

- Poster Presentations: 10:00 - 12:00 noon in Respective Departments
- Seminar Presentation: 10:00 to 12:00 noon at Digital Rooms
- Addressing and Prize Distribution: 12:30 pm onwards

Every Participants will get Certificates and Winners will be awarded with Mementos

How to Participate: Contact to Respective HoD for Poster / Seminar Topic and Register by Following Link
[Confirm Registration on or Before 27 Feb 2025]





10. Student Achievements:

In One day National Conference on “**Exploring the frontiers of Science, Collaboration, Innovation and Sustainability (NCEFSCIS-2025)**” on **08/02/2025** at Aadarsh College Dhamangoan Rly, two students of Microbiology Department, Shri RLT College of Science grabbed the best presentation award. Ms. Renu Dubey got 1st Prize in Poster Presentation while Mr. Vishwajitsing Daberao secured 2nd Prize in Oral Presentation. Total 8 students of M. Sc. II year presented their project work in the conference. It was a great learning experience for students.



Best Student Award:

Every year Microbiologist's Society India bestows 'Best Student Award' to one student each from UG and PG. This year, on 28th Feb 2025, Ms. Pradnya Belokar (UG Secured 74/80 in B. Sc. II Microbiology) and Mr. Jaypal Rathod (PG) bagged the award from Shri R.L.T College of Science, Akola which is been awarded by Dr. Rajesh Chandrawanshi, Principal Shri R.L.T. College, Akola). Ms. Pradnya Belokar also received Cash prize of Rs. 5000/- sponsored by Dr. H. S. Malpani for Securing 94 marks out of 100 in B. Sc. II Microbiology



Merit Students:

Department is having tradition of producing meritorious students, in academic year 2023-24 total 4 students stood in merit list published by SGB Amravati University. Ms. Vaishnavi Nesanatakar 3rd Merit, Ms. Sakshi Deo 4th Merit and Ms. Kshitija Ram Mule got 5th Merit positions in M. Sc. Microbiology merit list of SGBAU and while Samiksha Sunil Lingayat got 3rd Merit position in M.Sc. Biochemistry Examination of S.G.B. Amravati University, Amravati.



Dr. Harish S. Malpani
Head Department of Microbiology
Shri RLT College of Science, Akola