

**Shri RLT College of Science, Akola**  
**UG and PG Department of Biochemistry**  
**Departmental Report (2022-23)**

The Department of Biochemistry offers education at undergraduate and postgraduate level. The department has two laboratories namely UG and PG laboratory. This year, the total students in PG department were 56 and in Undergraduate course were 106.

Dr. V. D. Nanoty (Principal, Shri. R. L. T. College of Science) has been appointed as the Chairman of Board of studies in Biochemistry including Microbiology and Food Science in Amravati University, Amravati.

In the academic year of 2022-23, for the implementation of "Choice-Based Credit System (National Education Policy)-2020", workshops were conducted in various institutes of SGB Amravati University, Amravati. For these workshops, 70 resource persons were appointed by the university. Of these, two educators-Dr.V. D. Nanoty and Dr. H. S. Malpani from the department, were also appointed. They conducted workshops at Amravati and Buldhana, respectively, on 17th September, 2022.

Maharashtra State Development of Educators and Enhancement in Delivery (MS-DEED) Programme is a collaboration between IISER Pune and the Maharashtra State Faculty Development Academy (MSFDA)-Centre for Multi-disciplinary Curriculum & Pedagogy under the Department of Higher and Technical Education, Government of Maharashtra. A 3-day Level 1 Faculty training programme was conducted by IISER and MSFDA at Shri Shivaji College of Science, Akola from 13<sup>th</sup> to 15<sup>th</sup> March, 2023. From the department Ms. M.M Deshmukh successfully completed the programme. Dr. H.S. Malpani acted as Observer in the same Programme.

This year, total 30 PG students completed the project work under the guidance of Dr. H.S Malpani, Ms. S.N Gawande, Ms. D.R Goyanka, Ms. M.M Deshmukh, Ms. S.R Shilwant, and Ms. V.S Sonwane. All faculty members attended several events and conferences and also published research papers at National and International reputed journals.

**INAUGURATION OF PG LABORATORY**

On 10<sup>th</sup> October 2022, the new laboratory was inaugurated by Hon'ble Dr. Vedprakash Mishra (Pro Chancellor, Datta Meghe Institute of Medical Science, Nagpur), Hon'ble Dr. Tushar Deshmukh (Registrar, Sant Gadge Baba Amravati University, Amravati), Adv. Motisinghji Mohta (President, B.G.E Society, Akola), Shri Pavan Maheshwari (Hon. Secretary, B.G.E Society, Akola), and Dr. V.D Nanoty (Principal, Shri R.L.T College of Science, Akola). The students of PG Biochemistry displayed basic models of structures of DNA and atom. They also demonstrated and explained some experiments of Biochemistry. The instruments and their Standard operating procedures were explained by the students. All the guests interacted with the students and guided them. Dr. Vedprakash Mishra asked the students to generate scientific temperament and ignite the minds through inquiry. The

students expressed their gratitude for the guidance from the guests. Dr. Tushar Deshmukh appreciated the students for their skills of demonstration and confidence.



### INAUGURATION OF MICRANS:

The student activity unit of Microbiology department “MICRANS” was renamed to “AMBER” (Association of Microbiologists and Biochemists for Education and Research) to include the students of Biochemistry. The unit was inaugurated on 10<sup>th</sup> October, 2022 by the hands of Dr. Vedprakash Mishra and Dr. Tushar Deshmukh. Various programmes were conducted under the unit for skill development and welfare of students.



## EVENTS ORGANIZED BY THE DEPARTMENT

### 1) Blood sugar and BMI detection camp

Blood sugar and BMI detection camp organized by the Department of Biochemistry & Microbiology on 10<sup>th</sup> October 2022. The PG students of Biochemistry & Microbiology Department assisted in the testing. Hon'ble Dr.Vedprakash Mishra (Pro chancellor, Datta Meghe Institute of Medical Science, Nagpur), Hon'ble Dr. Tushar Deshmukh (Registrar, Sant Gadge Baba Amravati University, Amravati), Adv. Motisinghji Mohta (President, B.G.E Society, Akola), Shri Pavan Maheshwari (Hon. Secretary, B.G.E Society, Akola), and Dr. V.D Nanoty (Principal, Shri R.L.T College of Science, Akola) visited the camp along with the executive members of The Berar General Education Society. The guests got their BMI and Blood sugar tested. Dr.Vedprakash Mishra and Dr. Tushar Deshmukh questioned the students and appreciated the students for their efforts. All the members interacted with the students and gathered information about their health with respect to BMI and blood sugar. Many students also visited the camp. They gained information from the infographics prepared by the PG students. About 30 people got tested and were informed about their health with respect to blood sugar and BMI.





## 2) **WORLD FOOD WEEK:**

On occasion of “World Food Week” (10<sup>th</sup> Oct-16<sup>th</sup>Oct), Department of Biochemistry and Microbiology in collaboration with Microbiologist Society, India organized an inter-collegiate poster competition for UG students on theme “Healthy Food: A Gateway to Healthy life” on 10<sup>th</sup> October 2022. About 70 students from different colleges participated in the competition and displayed their posters. Dr. Arti Deshpande (Prof. and Head, Department of Microbiology, Shankarlal Khandelwal College, Akola) acted as the judge for the competition and also gave guidance to the students. Dr. D.D Bhokare (Prof. Department of Microbiology, Shankarlal Khandelwal College, Akola) also visited the event and acknowledged the ideas of the students.



On 22<sup>nd</sup> November 2022, Department of Microbiology and Biochemistry in collaboration with MSI organized a guest lecture of Dr. Sanjeev Patankar on 'Principles of Molecular Diagnosis and use of therapeutic equipment'. He informed the students about various techniques used in diagnosis of diseases and disorders.

THE BERAR GENERAL EDUCATION SOCIETY, AKOLA  
SHRI R.L.T COLLEGE OF SCIENCE, AKOLA  
DEPARTMENT OF MICROBIOLOGY & BIOCHEMISTRY  
In collaboration with Microbiologist Society, India  
organizes a Guest Lecture on

**“PRINCIPLES OF MOLECULAR DIAGNOSIS AND USE OF THERAPEUTIC EQUIPMENTS”**

By  
**DR. SANJEEV PATANKAR**  
(Maharashtra State President, MSI)

Date: 22<sup>nd</sup> November, 2022  
Time: 3 PM  
Venue: Auditorium (Shri R.L.T College of Science, Akola)  
In Gracious Presence Of

Dr. V. D. Nanoty  
Principal  
Shri R.L.T College of Science, Akola

Dr. A.M. Garode  
Former Head (Microbiology)  
Shri Shivaji College, Chikhli

Dr. U.K. Bhalekar  
Former Head (Microbiology)  
Shri R.L.T College of Science, Akola

**Organizing Committee**

Dr. H.S. Malpani  
Head  
Department of Microbiology

Ms. S.N. Gawande  
Asstt. Prof.  
Department of Microbiology

Mr. S.A. Toshniwal  
Ms. M.M. Deshmukh  
Ms. M.R. Kashid  
Ms. R.R. Apturkar

And staff members of Department of Microbiology & Biochemistry



#### 4) EDUCATIONAL TOUR FOR UG STUDENTS:

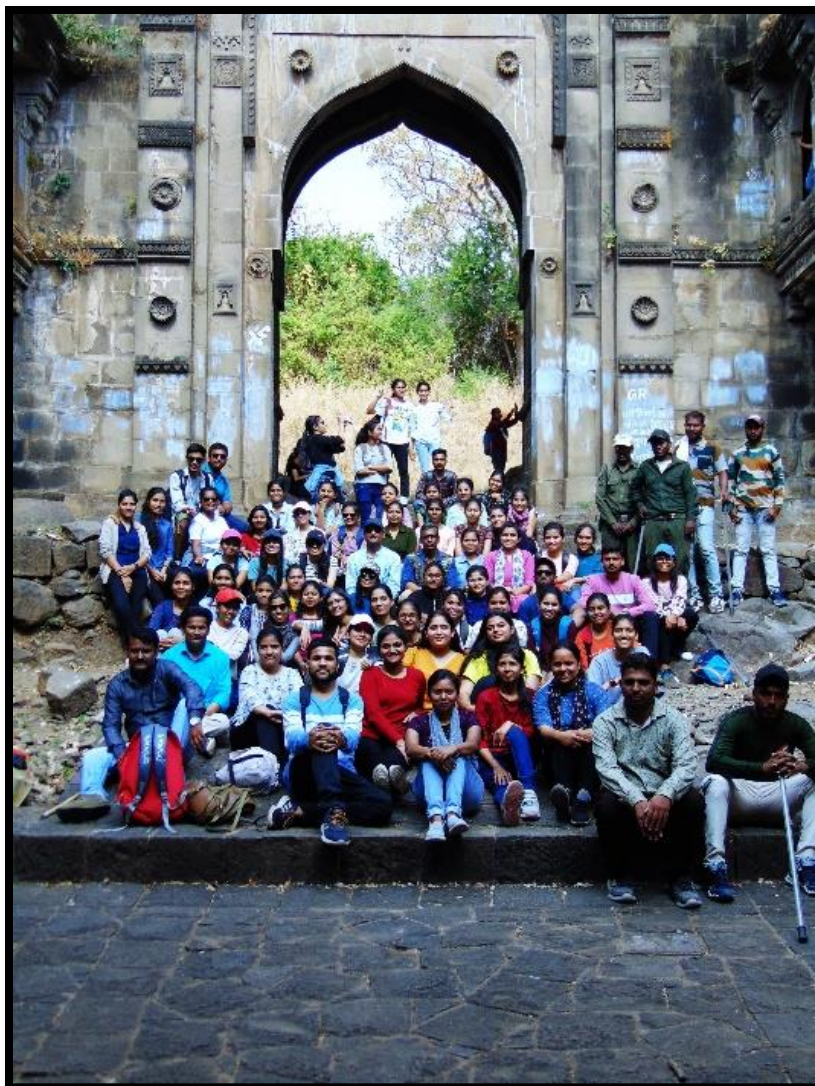
Every year the department conducts educational tours for UG and PG students. For the students of B.Sc III educational tour was conducted to Mahan water purification plant on 24<sup>th</sup> November, 2022. Total 40 students took part in the tour along with 8 staff members. The students learnt about the processes involved in water purification such as sedimentation, flocculation, aeration, chlorination and filtration by rapid sand filters.



**5) EDUCATIONAL TOUR FOR PG STUDENTS:**

For the PG students an educational tour was conducted at Shahnur wildlife sanctuary and Narnala fort on 13<sup>th</sup> December 2023. The tour was conducted to promote wildlife conservation. Total 30 students along with 6 staff members took part in the tour. Mr. Amol Sawant (Founder, Nisarg Katta, Akola) guided the students regarding biodiversity of Melghat forest and their efforts in conservation of various flora and fauna.





**6) SEMINAR COMPETITION:**

On the occasion of 179th birth anniversary of Sir Robert Koch (11th December 1843-27th May 1910), Department of Biochemistry and Microbiology of Shri R.L.T College of Science, Akola in collaboration with Microbiologist Society, India organized an intercollegiate seminar competition on theme "Contributions of Sir Robert Koch in the field of Microbiology" on 12th December 2022. The event was conducted in the gracious presence of Dr. V.D. Nanoty who was the president of the event. Dr. H.S Malpani gave the introductory speech and welcomed all the participants to the event. Total 20 students participated in the event.




THE BERAR GENERAL EDUCATION SOCIETY, AKOLA  
SHRI R.L.T COLLEGE OF SCIENCE, AKOLA  
**DEPARTMENT OF MICROBIOLOGY & BIOCHEMISTRY**  
In collaboration with Microbiologist Society, India



Organizes A Seminar Competition On  
**“CONTRIBUTIONS OF SIR ROBERT KOCH IN THE FIELD OF MICROBIOLOGY”**  
To Mark The 179<sup>th</sup> Birth Anniversary Of Sir Robert Koch



Sir Robert Koch (11<sup>th</sup> December 1843- 27<sup>th</sup> May 1910), A Philosopher, Teacher & Researcher, Is One Of The Founders Of Bacteriology And Medical Microbiology And Known For His Indispensable Contributions In The Field Of Microbiology. He Received The Nobel Prize In Medicine (1905) For Research On Tuberculosis.

**Date:** 12<sup>th</sup> December, 2022  
**Time:** 12:30 PM  
**Venue:** UG Laboratory of Microbiology

**In Gracious Presence Of**  
Dr. V. D. Nanoty  
Principal  
Shri R.L.T College of Science, Akola

**Organizing Committee**

**Dr. H.S. Malpani**  
Asstt. Prof. & Head  
Department of Microbiology

**Mr. S.A. Toshniwal**

**Ms. M.M. Deshmukh**

And staff members of Department of Microbiology & Biochemistry

**Ms. S.N. Gawande**  
Asstt. Prof.  
Department of Microbiology

**Ms. R.R. Apturkar**

**:SUB-THEMES:**


1. Tuberculosis
2. Cholera
3. Anthrax
4. Bacterial Culture Methods
5. Germ Theory

## 7) BLOOD GROUPING AND BLOOD DONATION:

On the Memorial Day of late Principal M.G. Joshi, under the guidance of Dr. V.D. Nanoty the department organized a blood grouping camp on 24<sup>th</sup> December 2022. This year, the blood group of 104 candidates was determined. They were also made aware of the blood types and its importance. The post graduate students of Biochemistry volunteered in the camp. The students and staff of the department donated blood in the camp.

दि बेरार जनरल एज्युकेशन सोसायटी, अकोला द्वारा संवाहित  
**श्री रा.ल.तो. विज्ञान महाविद्यालय, अकोला**  
(संत गाडगेबाबा अमरावती विद्यापीठ संलग्नित)

**स्व. प्राचार्य म.गो. जोशी स्मृतिदिन**  
(रक्तदान व रक्तगट तपासणी शिबीर, पारितोषिक वितरण, आय.ववु.ए.सी.  
व माजी विद्यार्थी कार्यकारिणी सभा २०२२)



स्व. प्राचार्य म.गो. जोशी

**रक्तदान व रक्तगट तपासणी शिबीर**  
शनिवार, दि. २४ डिसेंबर २०२२ रोजी : सकाळी ८ ते ११

सौजव्य : ● रक्तपेढी विभाग, डॉ. हेमणंदर रक्तपेढी, अकोला  
● सुकृमजीवशास्त्र विभाग  
● एन.एस.एस., एन.सी.सी., स्पोर्ट्स, डी.एन.सी.

महोदय/महोदया,

**विगित**

डॉ. विजय मागोटी प्राचार्य श्री रा.ल.तो. विज्ञान महा., अकोला	डॉ. राजेंद्र रहाटगावकर डॉ. पुनम अग्रवाल IQAC	श्री. किशोर शेगोकार शिक्षकेतर कर्मचारी प्रतिनिधी
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व समस्त प्राध्यापक, शैक्षणिक, शिक्षकेतर व प्रशासकिय कर्मचारी

**रक्तदान व रक्तगट तपासणी शिबीर समिती**

डॉ. एस.आर. कोहचाळे	डॉ. आर.डी. चंद्रवंशी	डॉ. एच.एस. मालपाणी
डॉ. आर.पी. जोशी	डॉ. एस.एल. मुंडे	डॉ. आर.एन. अग्रवाल
प्रा. एस.एन. गवंदे	डॉ. ज्ञानेश्वर न्हात्रे	श्री. के.राव. पाटील
	श्री. डी.जे. वानखडे	





8) **BLOOD GROUPING CAMP:** Similar blood grouping camp was held on 14<sup>th</sup> March 2023 at adopted village 'Apatapa' at the NSS camp of Shri R.L.T College of Science, Akola. During this camp the blood group of more than 50 villagers was tested.



9) **WORKSHOP ON MOLECULAR BIOLOGY:** In collaboration with Hi-Media, the department organized a one-day workshop on "Techniques in Molecular Biology" on 20<sup>th</sup> March 2023. Mr. Singh and Dr. Sunil Kokane from Hi-Media conducted the workshop. They demonstrated experiments related to molecular biology to the PG students. More than 55 students benefitted from the workshop.



Dr. Harish S. Malpani  
Asst. Professor & Head  
Department of Biochemistry

## PHOTO GALLERY



**Dr. V.D Nanoty as a Resource person for CBCS implementation workshop**