



## Department of Biochemistry

### Goals

To introduce students to the biological foundations of life cycles at the molecular level and guide them towards the relationship of biochemical analysis & its interpretation for diagnosis of diseases.

### Educational Objectives

- To build a comprehensive knowledge of biomolecules.
- To study and understand the structure and properties of biomolecules.
- To study the about energy requiring process of the living cells.
- To study the chemistry of inheritance.
- To study effective communication through early clinical exposure.

### Curriculum

- The department adheres to the NMC and MUHS, Nashik norms for undergraduate education.
- New CBME curriculum has been implemented from 2019.
- Orientation Programme
- Foundation Course
- Students feedback

### Teaching and Learning

- Teachers with extensive experience, education, motivation, and dedication make up our department.
- The department actively participates in the delivery of 1st MBBS teaching and learning activities.
- Didactic lectures
- Laboratory Practical
- Early clinical Exposure
- Problem Solving- Case based learning
- Small group discussion
- Poster Competitions
- Quiz Competitions
- Class tests

### Student Support & Progression

- Departmental level Quiz, Seminar, Poster competitions conducted under guidance of faculty.
- All faculty use ICT to support & enhance the delivery of classroom teaching.
- Laboratory & demo room are ICT enabled.
- Continuous Internal Evaluation (CIE) is carried out by internal assessment (formative) examinations.
- Part completion/weekly tests are carried out regularly.
- During COVID-19 online classes were conducted.
- OSPE
- Parent – Teacher Meetings
- Attendance & Performance informed regularly.
- Students Participates in Research ICME /MUHS STS projects
- Biochemistry Elective for III/I MBBS
- Remedial teaching for Slow learners
- Coaching for Advanced learners
- Students feedback provide us input and actions

### Infrastructure & Learning Resources

- Demonstration Room: 67.43 Sqm. (50 students) with LCD & OHP projector
- Practical Laboratory : 241 Sqm.(80 Students) with LCD projector
- Preparation Room: 14 Sqm.
- Technician Room: 14 Sqm
- Research Laboratory: 67.43 Sqm.
- Professor and HOD : 1 Room – 23.10 Sqm
- Professor : 2 Rooms – 16.83 Sqm each
- Associate Professor : 1 Room- 16.83 Sqm
- Assistant Professor : 2 Room – 26.76 Sqm each
- Tutor/Demonstrator : 1Room – 16.83 Sqm
- Non-teaching staff : 1 Rooms – 16.83 Sqm
- Departmental Office : 1 Rooms – 16.83 Sqm
- Departmental Library: 1 Rooms – 33.71 Sqm

### Infrastructure: Departmental Library

Biochemistry	Books	Title
Central Library	624	197
Departmental Library	108	79
Journal	02	
e-consortia (Books & Journals)	Elsevier & DELNET e-consortia	

### Department Equipment's / Teaching aids

- LCD Projectors: 2
- OHP Projector: 1
- Computers: 8 connected to internet
- All equipment's as per NMC norms including double beam UV-VIS Spectrophotometer are available

### Governance and Leadership

#### Departmental faculty take additional responsibilities in:

- Institutional Ethics Committee
- Central Research Laboratory
- Animal Ethics Committee
- Anti-ragging Committee
- Medical Education unit
- Curricular committee
- Library committee
- Carrier guidance committee
- Student Council Committee
- Faculty members take an additional responsibilities as - Editor of scientific journals  
Reviewer of scientific journals
- Faculty members participate in a variety of college activities such as Sports & Cultural events, NAAC, NABH, NABL
- Faculty members continuously update their knowledge by participating in faculty development Programmes such as CME, Workshop, Conference, RBCME, CISP, BCBR.

### Clinical Biochemistry Laboratory

**Well-equipped with modern, highly advanced and precise equipments to provide quality reports in turnaround time.**

Sr. No	Instruments	Services Provided
1	Fully Automated & Semi Automated Biochemistry Analyser	All routine Biochemistry parameters – Liver function, Kidney function, Diabetic profile, Cardiac Markers, CRP
2	ARCHITECT i 1000SR Immunoassay analyzer	Thyroid Profile, Fertility/ANC profile, Anemia profile, Tumor markers, Vitamins
3	Electrolyte Analyser	Serum Electrolytes
4	HPLC (D10)	HbA <sub>1c</sub> measurement



### Best Practice of the Department

- Teach How to practice Mindfulness Meditation
- Helps to reduce stress and depression
- Increases concentration & Performance in studies

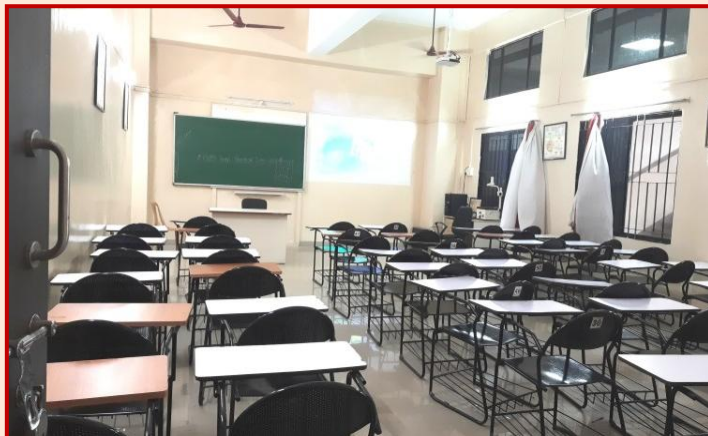


### Biochemistry Laboratory





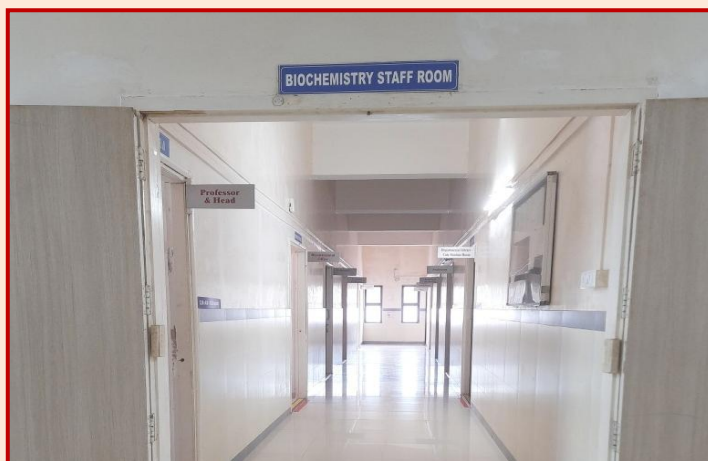
**Demonstration Hall**



**Departmental Research Lab**



**Biochemistry Staff Room**



**Departmental Library**



**Biochemistry Fully Auto analyzer**



**Chemiluminescence**



**Electrolyte Analyser**



**HbA1C Analyser (HPLC D10)**

