



Goals

The goal of teaching Microbiology is to provide understanding of the natural history of infectious diseases in order to deal with the etiology, pathogenesis, pathogenicity, laboratory diagnosis, treatment, control and prevention of these infections and infectious diseases.

Objectives

- State the etiology, pathogenesis and methods of laboratory diagnosis and apply that knowledge in the diagnosis, treatment, prevention and control of communicable diseases caused by microorganisms.
- Understand the immunological mechanisms associated with important infectious diseases.
- Plan and interpret laboratory investigations for diagnosis of infectious diseases and correlate the clinical manifestations with the etiological agent.
- Understand the measures for prevention and control of Hospital associated infections and use of the different antimicrobial agents including antibiotics to use judiciously and prevent misuse, (prescribing attitude).

Student Support Activity

1. "Certificate Course in Biomedical Waste Management (16 Hours)" was organized on 25th- 26th October 2021.
2. Training in "Healthcare Associated Infections – Prevention & Control practices" on 15/02/2022 for Nursing staff
3. "Training session for Resident doctors, Interns on "Blood Culture" and lecture on "Antimicrobial Stewardship" on 05/01/2023
4. Training Session on Healthcare Associated Infections – Prevention & Control practices on 29, 30 April 2022 for nursing staff
5. "Certificate Course in Biomedical Waste Management (16 Hours)" is organized on 17th and 18th December 2022 for 1st year MBBS students
6. CME on "Updates on diagnostic and treatment norms of Tuberculosis" organized by Microbiology department on 11/03/2023.

Infrastructure and learning resources

| Sr.No. | Description | No. | Area in Square meters |
|--------|--|-----|-----------------------|
| 1 | Professor and H.O.D. | 1 | 25 |
| 2 | Associate Professor/Reader | 1 | 15 |
| 3 | Asst. Professor/Lecturers | 2 | 15 |
| 4 | Tutor/Demonstrators | 1 | 15 |
| 5 | Non-teaching and Clerical staff | 1 | 15 |
| 6 | Research Laboratory | 1 | 60 |
| 7 | Departmental Library-cum-Seminar Room | 1 | 32 |
| 8 | Demonstration Room | 1 | 60 |
| 9 | Practical laboratory for MBBS students | 1 | 247 |
| 10 | Service laboratories | 7 | 81 Sq. m each |

Important Equipment Teaching aids

| Name of the equipment | Total No. |
|--|------------------------|
| Binocular Students microscopes | 75 |
| Automated Blood Culture System | 1 |
| Culture Identification & Antibiotic Susceptibility system (Vitek Compact 30) | 1 |
| GeneXpert MTB/RIF Assay (CBNAAT) | 1 |
| Microscope with universal condenser containing oil immersion, Bright field, Phase Contrast & Dark ground | 1 |
| Fluorescent Microscope | 1 |
| LCD projectors | 3 |
| Computer units | 7 |
| Laboratory instruments | As per NMC requirement |
| Fully equipped BSL-2 Molecular Virology Laboratory (NABL accredited) | As per the guidelines |



Departmental Library

Total No. of Books = 122

Total No. of titles = 86



Departmental Research Lab (Part of Institutional Incubation Centre)



Culture & Sensitivity



Biosafety cabinet Class II A-2



Bactec 9050 & Vitek compact

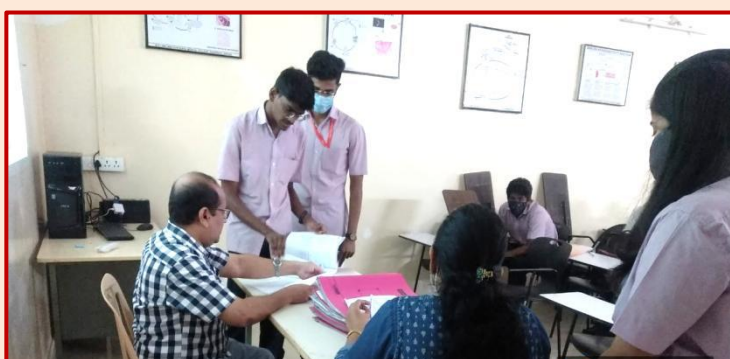


MTB Rif GeneXpert



Departmental Activities

Extra teaching session for slow learners



Guest lecture by Dr. Supriya Meshram



Guest lecture by Dr. Ravi Totad



Online Parent Teacher meeting – 2nd year



Course in Biomedical Waste Management (16 Hours)”



CME - Updates in Diagnostic & Treatment of TB



Service Facilities

- Medical diagnostic services in bacteriology, tuberculosis, mycology, serology, virology, immunology and Parasitology
- Designated TB diagnostic center and CBNAAT center
- Fully equipped BSL-II level Molecular laboratory which is NABL accredited for
 1. H1N1 swine flu RNA detection by RTPCR
 2. SARS CoV-2 RNA detection by RTPCR

Governance and leadership

- Along with the Microbiology teaching and laboratory work, our faculty also contribute in other institutional activities.

| Name of the faculty | Additional responsibilities |
|---------------------|---|
| Dr. Prasanna Nakate | Nodal officer for Covid RTPCR laboratory |
| | Lab Director – Virology Research and Diagnostic Laboratory |
| | Nodal officer – CBNAAT laboratory for TB |
| | Member of Library committee |
| | Member of College Council committee |
| | Member of Curriculum sub-committee – Phase - II |
| | Member of Anti-Ragging squad |
| | Member of Infection Control Committee |
| | Chairman – Alignment and Integration committee |
| Dr. Yogendra Shelke | Nodal officer for DRTB center |
| | Quality Manager – Virology Research and Diagnostic Laboratory |
| | Nodal officer – ART center |
| | Member of Medical Education Unit |
| | Member of Alignment and Integration committee |

Departmental faculty takes an additional responsibilities in:

- Library committee
- College Council Committee
- Anti Ragging Squad
- International student cell committee