

## MICROBIOLOGY AND IMMUNOTECHNOLOGY

Semester	Subject Code	Category	Lecture	Theory	Practical		Credits
II	21CPBT23	Core Practical III	0	0	4 hrs per week	120	4

### COURSE OBJECTIVE:

- To properly obtain culture, identify, and explain microorganisms in environmental cultures and basic understanding of various immunological techniques.

### LIST OF EXPERIMENTS:

1. Isolation and enumeration of microorganisms from air soil and water (fungi, bacteria and actinomycetes) using pure culture techniques – pour/ streak/spread.
2. Staining (differential and LCPCB)
3. Estimate the concentration of viable organism – MPN method.
4. Biochemical tests
5. Determine minimal inhibitory concentration (MIC) of an antibiotic using double dilution technique
6. Latex agglutination inhibition test
7. Immunoelectrophoresis
8. Single Radial Immunodiffusion
9. Ouchterlony Double Diffusion
10. ELISA