

IMMUNOLOGY AND BACTERIOLOGY

| Semester | Subject code | Category | Lecture | | Theory | | Practical | | Credits |
|----------|--------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | | Total hrs | Hrs/ week | Total hrs | Hrs/ week | Total hrs | Hrs/ week | |
| I | 21CPMB22 | Practical II | 0 | 0 | 0 | 0 | 60 | 4 | 5 |

Immunology

1. Separation of serum/plasma – blood grouping and typing
2. Differential count- WBC
3. Precipitation tests – ODD and SRID
4. Electrophoresis- Immunoelectrophoresis and CIE
5. Passive agglutination test- ASLO test and Widal slide test
6. Complement fixation test
7. Autoimmune diseases – SLE test
8. ELISA.

Medical Bacteriology

1. Collection and transport of clinical specimens – sputum, pus, urine, faeces, blood and CSF. Simple, differential -Gram staining, Acid fast staining and specialized staining methods. Capsule staining.
2. Cultivation methods – transport media – Isolation methods – basal, differential, enriched, selective media and for the pathogenic bacteria.
3. Biochemical identification of the pathogenic bacteria – indole, methyl red, voges praskeur, citrate utilisation, TSI, urease, catalase, oxidase, sugar fermentation, coagulase, Nitrate test, Gelatin liquefaction
4. Antibiotic sensitivity test- Kirby Bauer method- MIC– broth dilution, agar dilution method- MBC