

Subject Code: 1SC2060105	Subject Title: PRACTICAL MODULE - I
COURSE TYPE: CORE COURSE	-----

Teaching scheme (hours) per week		Credit			Theory Marks		Practical Marks		Total
Theory	Practical	Theory	Practical	Total	Uni. Assessment	Cont. Assessment	Uni. Assessment	Cont. Assessment	
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LIST OF PRACTICALS:

1. Safety precautions to work in Microbiology Laboratory.
2. Study of working laboratory instruments.
3. Preparation of solution, reagents and media (Solid & Liquid).
4. To study the skeletal & muscular system.
5. To study the digestive system.
6. To study the respiratory system.
7. To study the cardiovascular system.
8. To study the lymphatic system.
9. To study the excretory and reproductive system.
10. Estimation of glucose
11. Estimation of total protein
12. Estimation of urea
13. Estimation of creatinine
14. Estimation of SGOT
15. Estimation of SGPT
16. Estimation of ALP
17. Estimation of cholesterol
18. Estimation of triglycerides
19. Preparation of smear and staining: Gram staining, Albert's staining, Acid-fast staining, capsule, cell wall, metachromatic granule, spore, spirochete staining
20. Culturing of Microorganisms
21. Study of Gram positive and Gram negative bacteria.(Morphology, cultural and Biochemical study)
22. Identification of bacteria and fungi using various methods.
23. Determination of MIC.
24. Antibacterial drug sensitivity.
25. Specimen collection and handling, separation of serum.
26. Immunological test: Widal test, VDRL test.
27. Hematological test: Blood hemoglobin, total RBC count, total WBC count, Differential count, ESR.
28. Determination of bleeding time and blood clotting time.
29. Platelet count
30. Detection of malaria parasite. (Demonstration)