PG DMLT Semester II

Subject Name: Lab 2 (L2)

Subject Code: 02ML0203

Objective: To train students with the experimental and analytical aspects of serological testing and Bio-medical waste management.

Credits Earned: 3 Credits
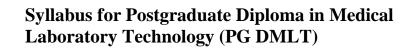
Course Outcomes: After the completion of the course:
1. Students will be able to independently perform the serological and pathological testing.
2. Students will be able to analyse and interpret the results of various clinical tests.
3. Students will become trained in report generation and record maintenance of clinical tests.
4. Students will become well versed with the practical aspects of Bio-medical waste management and disposal.

Pre-requisite of course: Fundamental knowledge of Microbiology and Immunology

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	IA (M)	CSE (I)	Viva (V)	Practical/ TW	
0	0	6	3	0	0	0	50	50	100

Contents:

Module	List of Experiments	Contact Hours
1.	**Standard Practices in Biomedical Laboratory** 1. To learn handling and sorting of biomedical waste 2. To perform drug resistance profiling. 3. To learn preparation and compilation of medical/clinical reports. 4. To learn basics of clinical data management 5. To perform the standard protocols of sterilization & disinfection in biomedical laboratory. 6. Primer designing for molecular diagnosis. 7. Polymerase Chain Reaction (PCR).	45
2	**Medical Microbiology** 1. To perform complement fixative test (CFT). 2. To perform antimicrobial susceptibility test. 3. To perform WidalTest(Slide & tube method). 4. To perform *Brucella* agglutination test. 5. To perform ELISA (dot blot method). 6. To understand the working principle of RIA (Demo). 7. To perform the VDRL Test (Demo Kit). 8. Rapid Plasma Reagin (RPR) test. 9. To perform *Treponema pallidum*haemagglutination(TPHA) test. 10. To perform Antistreptolysin O (**ASO**) test. 11. To perform Rheumatoid Arthritis (R.A.) test.	45
	Total	90