

INSTITUTE	FACULTY OF SCIENCE
PROGRAM	POSTGRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
SEMESTER	1
COURSE TITLE	LAB 1
COURSE CODE	02ML0105
COURSE CREDITS	6

Objective:

- 1 To train students with the experimental and analytical aspects of clinical biochemistry, pathology, hematology and human anatomy.

Course Outcomes: After completion of this course, student will be able to:

- 1 Students will become aware of the clinical laboratory environment and standard laboratory practices.
- 2 Students will be trained in handling analytical instruments and solution preparation.
- 3 Students will be able to independently handle and analyse clinical samples with various experiments.
- 4 Students will gain expertise in analysis, interpretation and conclusion of clinical test results.

Pre-requisite of course: To train students with the experimental and analytical aspects of clinical biochemistry, pathology, hematology and human anatomy.

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
0	0	12	0	0	0	100	100
Contents : Unit	Topics						Contact Hours
Total Hours							

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	Clinical Biochemistry Experiment 1, Experiment 2, Experiment 3, Experiment 4, Experiment 5, Experiment 6, Experiment 7	
2	Basic Haematology Experiment 1, Experiment 2, Experiment 3, Experiment 4, Experiment 5, Experiment 6, Experiment 7	

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
3	Basic and Clinical Pathology Experiment 1, Experiment 2, Experiment 3, Experiment 4, Experiment 5, Experiment 6, Experiment 7	
4	Human Anatomy and Physiology Experiment 1, Experiment 2, Experiment 3, Experiment 4, Experiment 5, Experiment 6, Experiment 7	
Total Hours		

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking / Creative
30.00	25.00	20.00	15.00	5.00	

Instructional Method:

- 1 Students will use supplementary resources such as online videos, NPTEL videos, e-courses, Virtual Laboratory.