

M.Sc.Medical Laboratory Technology

Programme Structure: Hematology & Blood Transfusion

Courses	Credits
I Semester	
Medical laboratory Management	4
Basics of Immunology	3
Research Methodology & Biostatistics	3
Medical laboratory Management Practical	3
Basics of Histopathology	3
Fundamental of Haematology	4
Fundamental of Haematology Practical	3
II Semester	
Bioethics	3
Applied Haematology	4
Clinical Pathology	4
Applied Haematology (Practical)	3
Clinical Pathology (Practical)	3
Multi - disciplinary Electives	3
III Semester	
Molecular Biology & Bioinformatics	4
Healthcare Management	3
Basics of Immunohematology	4
Immunopathology and Cytogenetics	4
Immunohematology (Practical)	3
Multi - disciplinary Electives	3
IV Semester	
Blood Banking	5
Dissertation	12
Multi-Disciplinary Electives	3

Specialization: Microbiology & Immunology

Courses	Credits
I Semester	
Medical laboratory Management	4
Basics of Immunology	3
Research Methodology& Biostatistics	3
Medical laboratory Management Practical	3
Basics of Medical Microbiology	3
Systemic Bacteriology	4
Systemic Bacteriology Practical	3
II Semester	
Bioethics	3
Immunology & Serology	4
Medical Parasitology	4
Immunology & Serology (Practical)	3
Medical Parasitology(Practical)	3
Multi - disciplinary Electives	3
III Semester	
Molecular Biology & Bioinformatics	4
Healthcare Management	3
Medical Mycology	4
Medical Virology	4
Medical Mycology & Virology (Practical)	3
Multi - disciplinary Electives	3
IV Semester	
Advances in Medical Microbiology	5
Dissertation	12
Multi-Disciplinary Electives	3

Specialization: Clinical Biochemistry

Courses	Credits
I Semester	
Medical laboratory Management	4
Basics of Immunology	3
Research Methodology& Biostatistics	3
Medical laboratory Management Practical	3
General Biochemistry	3
Enzymes, Vitamins and Nutrition	4
Enzymes, Vitamins and Nutrition Practical	3
II Semester	
Bioethics	3
Biomedical Techniques	4
Metabolism I	4

Biomedical Techniques (Practical)	3
Metabolism I (Practical)	3
Multi - disciplinary Electives	3
III Semester	
Molecular Biology & Bioinformatics	4
Healthcare Management	3
Metabolism II	4
Applied Clinical Biochemistry	4
Applied Clinical Biochemistry (Practical)	3
Multi - disciplinary Electives	3
IV Semester	
Automation and Quality Assurance in Clinical Biochemistry	5
Dissertation	12
Multi-Disciplinary Electives	3