

BS Medical Laboratory Technology(MLT)

Course Code	Course Title	Credit Hours
Semester 1		
AHP-301	Basic and Applied Anatomy	4 (3-1)
AHP-303	Basic and Applied Physiology	4 (3-1)
PSY-407	Social Psychology	3 (3-0)
ENG-321	Functional English	3 (3-0)
ISL-321	Islamic Studies /Ethics	2 (2-0)
Semester 2		
AHP-302	General Pathology	4 (3-1)
AHP-304	Introductory Pharmacology	2 (2-0)
BCH-301	Introductory Biochemistry	4 (3-1)
CSI-321	Introduction Computer Applications	3 (2-1)
PST-321	Pakistan Studies	2 (2-0)
MLT-306	Fundamentals of Medical Lab Technology	2 (2-0)
Semester 3		
AHP-401	Community Medicine/ Public Health	3 (2-1)

MIC-321	General Microbiology & Sterilization	3 (2-1)
---------	--------------------------------------	---------

MLT-403	General Hematology	4 (3-1)
---------	--------------------	---------

MLT-405	Clinical Pathology	3 (2-1)
---------	--------------------	---------

MLT-407	Clinical Lab Practice-I	3 (0-3)
---------	-------------------------	---------

Semester 4

AHP-402	Scientific Writing	2 (2-0)
---------	--------------------	---------

MLT-404	Clinical Biochemistry (I & II)	4 (3-1)
---------	--------------------------------	---------

MLT-406	Immunology & Serology	4 (3-1)
---------	-----------------------	---------

MLT-408	Histopathology & Histo-technology	4 (3-1)
---------	-----------------------------------	---------

MLT-410	Clinical Lab Practice-II	3 (0-3)
---------	--------------------------	---------

Semester 5

MLT-501	Clinical Parasitology	3 (2-1)
---------	-----------------------	---------

MLT-503	Immunohematology & Transfusion Medicine	3 (2-1)
---------	---	---------

MLT-505	Clinical Bacteriology	4 (3-1)
---------	-----------------------	---------

MLT-507	Biosafety and Hazards	2 (2-0)
---------	-----------------------	---------

MLT-509	Medical Instrumentations & Software Applications	3 (3-0)
---------	--	---------

MLT-511	Clinical Lab Practice-III	3 (0-3)
---------	---------------------------	---------

Semester 6

MLT-502 Cytology &Cytotechnology 3 (2-1)

BNB-321 Molecular Biology 3 (2-1)

MLT-504 Clinical Virology & Mycology 3 (2-1)

MLT-506 Advanced Hematology 3 (2-1)

MLT-508 Advanced Immunology 3 (2-1)

MLT-510 Clinical Lab Practice-IV 3 (0-3)

Semester 7

AHP-601 Forensic Medicine 3 (3-0)

STAT-421 Biostatistics 3 (3-0)

MLT-603 Advanced Clinical Biochemistry* 4 (3-1)

MLT-605 Advanced Clinical Microbiology*

MLT-607 Advanced Molecular Biology*

MLT-609 Advanced Diagnostic & Biomedical Techniques 3 (2-1)

MLT-611 Quality Assurance Management 2 (2-0)

MLT-613 Clinical Genetics 3 (2-1)

* Student will opt any one from these elective subject

Semester 8

AHP-602	Epidemiology	3 (3-0)
BNB-402	Bioinformatics-I	3 (2-1)
PHS-503	Endocrinology	3 (2-1)
MLT-604	Clinical Laboratory Management	3 (3-0)
MLT-606	Research Project/Term Paper	3 (0-3)