

## Scheme of Studies B.S. (Hons.) Medical Laboratory Technology

Course No.	Title of Course	Credit Hours
<b>FIRST SEMESTER</b>		
MLT – 26101	Fundamentals of Microbiology	4(3-1)
ANAT-26102	Human Anatomy	3(2-1)
BIOC-26103	Principles of Biochemistry-I	3(2-1)
ANAT-26104	Human Histology	3(2-1)
SOSC-26105	English-1 (Functional English)	3(3-0)
STCS-26106	Introduction to Computer Science	3(2-1)
SOSC-26107/ SOSC-26108	Holy Quran Translation-I/ Ethics-I	1(1-0)
<b>SUBTOTAL</b>		<b>20</b>
<b>SECOND SEMESTER</b>		
MLT-26201	Molecular Cell Biology	4(3-1)
PHYS-26202	Human Physiology	3(2-1)
BIOC-26203	Principles of Biochemistry-II	3(2-1)
STCS-26204	Mathematics	3(3-0)
SOSC-26205	English II (Communication Skills)	3(3-0)
SOSC-26206 / SOSC-26207	Islamiyat/Ethics	1(1-0)
<b>SUBTOTAL</b>		<b>17</b>
<b>THIRD SEMESTER</b>		
PATH-26301	General Pathology	3(2-1)
PHRM-26302	General Pharmacology and Chemotherapy	3(2-1)
MLT-26303	Immunology	3(2-1)
PATH-26304	Hematology-I	3(2-1)
STCS-26305	Biostatistics	3(3-0)
SOSC-26306	Pakistan Studies	2(2-0)
SOSC-26307/ SOSC-26308	Holy Quran Translation-II Ethics-II	1(1-0)
<b>SUBTOTAL</b>		<b>18</b>
<b>FOURTH SEMESTER</b>		
PHRM-26401	Systemic Pharmacology	3(2-1)
MLT-26402	Clinical Virology	3(2-1)
PATH-26403	Systemic Pathology	3(2-1)
EPPH-26404	One Health	3(2-1)
MBBT-26405	Human Genetics	3(2-1)
SOSC-26406	Behavioral Sciences and Medical Sociology	2(2-0)
<b>SUBTOTAL</b>		<b>17</b>

Course No.	Title of Course	Credit Hours
<b>FIFTH SEMESTER</b>		
MBBT-26501	Basic Bioinformatics	2(1-1)
MLT-26502	Medical Microbiology	4(3-1)
PARA-26503	Clinical Parasitology	3(1-2)
PATH-26504	Clinical Pathology	3(1-2)
PATH-26505	Blood Disorder	3(2-1)
MLT-26506	Biorisk Management (Biosafety & Biosecurity)	3(2-1)
SOSC-26507/ SOSC-26508	Holy Quran Translation-III/ Ethics-III	1(1-0)
<b>SUBTOTAL</b>		<b>19</b>
<b>SIXTH SEMESTER</b>		
MLT-26601	Medical Laboratory Instrumentations	3(2-1)
MLT-26602	Clinical Bacteriology	3(1-2)
MLT-26603	Molecular Diagnostics	3(2-1)
PATH-26604	Chemical & Forensic Pathology	3(2-1)
MBBT-26605	Biotechnology	4(3-1)
PATH-26606	Cytology and Cytogenetics	3(2-1)
<b>SUBTOTAL</b>		<b>19</b>
<b>SEVENTH SEMESTER</b>		
MLT-26701	Medical Laboratory Management Skills	3(2-1)
LEBM-26702	Bioentrepreneurship	2(2-0)
MLT-26703	Research Methodologies	3(2-1)
MLT-26704	Advances in Medical Laboratory Technology	3(1-2)
PATH-26705	Blood Banking	3(2-1)
MBBT-26706	Bioethics	2(1-1)
SOSC-26707/ SOSC-26708	Holy Quran Translation-IV Ethics-IV	1(1-0)
<b>SUBTOTAL</b>		<b>17</b>
<b>EIGHT SEMESTER</b>		
MLT-26801	Internship / Research Project*	0(0-0)
MLT-26802	Technical Report Writing	2(2-0)
MLT-26803	Comprehensive Examination	5(5-0)
<b>SUBTOTAL</b>		<b>07</b>
<b>GRAND TOTAL</b>		<b>134</b>

\* Only 10 % of the students will be allowed to work on research projects instead of internship. The decision to allow students to work on research projects will be made purely on merit after conduct of an interview.

\* Total Credit Hours Required for Graduation: 134 Hours