

# SYLLABUS FOR THE BACHELOR OF MEDICAL LABORATORY TECHNOLOGY (BMLT) COURSE

## Category definition with credit breakup

Semester		Credit					Total/Sem
	CC	DSE	GE	AECC	SEC	USC	
First	12		4	2		2	20
Second	12	6	4	2	1	2	27
Third	12	6	4	2	1	2	27
Fourth	12	6	4	2	1	2	27
Fifth	18	6			1		25
Sixth	24						24
<b>Total Credit/ Course</b>	<b>90</b>	<b>24</b>	<b>16</b>	<b>8</b>	<b>4</b>	<b>8</b>	
<b>Total Credit</b>							<b>150</b>

CC: Core Courses; GE: General Elective; AECC: Ability Enhancement Compulsory Course;  
SEC: Skill Enhancement Courses; DSE: Discipline Specific Elective; USC: University specified course

## First Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
<b>Semester - I</b>					
CC – 1	Human Anatomy	4	4	0	0
	Human Anatomy Lab	2	0	0	4
CC – 2	Human Physiology	4	4	0	0
	Human Physiology Lab	2	0	0	4
GE – 1	Generic Elective	4	4	0	0
AECC – 1	Communicative English – I	2	2	0	0
USC – 1	Foreign Language I	2	2	0	0
<b>Total Credit = 20</b>			<b>Teaching Hour = 24</b>		
<b>Semester - II</b>					
CC – 3	Basic Biochemistry & Microbiology	4	4	0	0
	Basic Biochemistry & Microbiology Lab	2	0	0	4
CC – 4	Basic Pathology & Histopathology	4	4	0	0
	Basic Pathology & Histopathology Lab	2	0	0	4
DSE – 1	Fundamentals of Computer Science	4	4	0	0
	Fundamentals of Computer Science Lab	2	0	0	4
GE – 2	Generic Elective	4	4	0	0
AECC – 2	Communicative English – II	2	2	0	0
SEC – 1	Mentored Seminar – I	1	1	0	0
USC – 2	Foreign Language II	2	2	0	0
<b>Total Credit = 27</b>			<b>Teaching Hour = 33</b>		

## Second Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
<b>Semester - III</b>					
CC – 5	Immunology and Serology	4	4	0	0
	Immunology and Serology Lab	2	0	0	4
CC – 6	Advanced Biochemistry	4	4	0	0
	Advanced Biochemistry Lab	2	0	0	4
DSE – 2	Basic and Clinical Pharmacology	4	4	0	0
	Basic and Clinical Pharmacology Lab	2	0	0	4
GE – 3	Generic Elective	4	4	0	0
AECC – 3	Environmental Science	2	2	0	0
SEC – 2	Mentored Seminar – II	1	1	0	0
USC – 3	Foreign Language III	2	2	0	0
<b>Total Credit = 27</b>			<b>Teaching Hour = 33</b>		
<b>Semester – IV</b>					
CC – 7	Advanced Microbiology	4	4	0	0
	Advanced Microbiology Lab	2	0	0	4
CC – 8	Advanced Pathology	4	4	0	0
	Advanced Pathology Lab	2	0	0	4
DSE – 3	Medical Ethics	4	4	0	0
	Medical Ethics Lab	2	0	0	4
GE – 4	Generic Elective	4	4	0	0
AECC – 4	Community Health	2	2	0	0
SEC – 3	Mentored Seminar – III	1	1	0	0
USC – 4	Foreign Language – IV	2	2	0	0
<b>Total Credit = 27</b>			<b>Teaching Hour = 33</b>		

## Third Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
<b>Semester – V</b>					
CC – 9	Hematology and Blood Banking	4	4	0	0
	Hematology and Blood Banking Lab	2	0	0	4
CC – 10	Advanced Histopathology and Histotechniques	4	4	0	0
	Advanced Histopathology and Histotechniques Lab	2	0	0	4
CC – 11	Diagnostic Cytology	4	4	0	0
	Diagnostic Cytology Lab	2	0	0	4
DSE – 4	Health Research and Publications	4	4	0	0
	Health Research and Publications Lab	2	0	0	4
SEC – 4	Mentored Seminar – IV	1	1	0	0
<b>Total Credit = 25</b>			<b>Teaching Hour = 33</b>		
<b>Semester – VI</b>					
CC – 12	Clinical Enzymology	4	4	0	0
	Clinical Enzymology Lab	2	0	0	4
CC – 13	Clinical Endocrinology and Toxicology	4	4	0	0
	Clinical Endocrinology and Toxicology Lab	2	0	0	4
CC – 14	Advanced Diagnostic Molecular Biology	4	4	0	0
	Advanced Diagnostic Molecular Biology Lab	2	0	0	4
CC – 15	Project	6	0	0	12
<b>Total Credit = 24</b>			<b>Teaching Hour = 36</b>		