

Academic Session: 2021-22

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
Total Credit/ Course	90	24	16	8	4	8	
Total Credit							150

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

And

Compulsory One year Internship

First Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
Semester - I					
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
Total Credit = 20			Teaching Hour = 24		
Semester - II					
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
Total Credit = 27			Teaching Hour = 33		

Second Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
Semester - III					
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-I	2	2	0	0
SEC – 2	Mentored Seminar – II	1	1	0	0
USC – 3	Foreign Language III	2	2	0	0
Total Credit = 27			Teaching Hour = 33		
Semester – IV					
CC – 7	Basics of Clinical Psychology	4	4	0	0
	Basics of Clinical Psychology Lab	2	0	0	4
CC – 8	Advanced Pathology and Microbiology	4	4	0	0
	Advanced Pathology and Microbiology Lab	2	0	0	4
DSE – 3	Basics of Clinical Nutrition	4	4	0	0
	Basics of Clinical Nutrition Lab	2	0	0	4
GE – 4	Generic Elective	4	4	0	0
AECC – 4	Environmental Science-II	2	2	0	0
SEC – 3	Mentored Seminar – III	1	1	0	0
USC – 4	Foreign Language – IV	2	2	0	0
Total Credit = 27			Teaching Hour = 33		

Third Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
Semester – V					
CC – 9	Hematology and Blood Banking	4	4	0	0
	Hematology and Blood Banking Lab	2	0	0	4
CC – 10	Advanced Clinical Psychology	4	4	0	0
	Advanced Clinical Psychology Lab	2	0	0	4
CC – 11	Advanced Clinical Nutrition	4	4	0	0
	Advanced Clinical Nutrition Lab	2	0	0	4
DSE – 4	Community Health	4	4	0	0
	Community Health Lab	2	0	0	4
SEC – 4	Mentored Seminar – IV	1	1	0	0
Total Credit = 25			Teaching Hour = 33		
Semester – VI					
CC – 12	Clinical Enzymology, Endocrinology and Toxicology	4	4	0	0
	Clinical Enzymology, Endocrinology and Toxicology Lab	2	0	0	4
CC – 13	Diagnostic Cytology and Histopathology	4	4	0	0
	Diagnostic Cytology and Histopathology 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
Total Credit = 24			Teaching Hour 36		

Academic Session: 2022-23

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	18			2			20
Second	12	6	4	2	1		25
Third	12	6	4	2	1	2	27
Fourth	12	6	4	2	1	2	27
Fifth	12	6	4		1	2	25
Sixth	24					2	26
Total Credit/ Course	90	24	16	8	4	8	
Total Credit							150

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

And

Compulsory One year Internship

First Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
Semester – I					
CC – 1	Basic Human Anatomy	4	4	0	0
	Basic Human Anatomy Lab	2	0	0	4
CC – 2	Basic Human Physiology	4	4	0	0
	Basic Human Physiology Lab	2	0	0	4
CC-3	Basic Instruments & Equipment	4	4	0	0
	Basic Instruments & Equipment lab	2	2	0	0
AECC – 1	Communicative English – I	2	2	0	0
Total Credit = 20			Teaching Hour = 24		
Semester – II					
CC – 4	Basic Biochemistry & Microbiology	4	4	0	0
	Basic Biochemistry & Microbiology Lab	2	0	0	4
CC – 5	Basic Pathology & Histopathology	4	4	0	0
	Basic Pathology & Histopathology Lab	2	0	0	4
DSE- 1	Basics of Clinical Psychology	4	4	0	0
	Basics of Clinical Psychology Lab	2	0	0	4
GE – 1	Generic Elective I	4	4	0	0
AECC – 2	Communicative English – II	2	2	0	0
SEC – 1	Mentored Seminar – I	1	1	0	0
Total Credit = 25			Teaching Hour = 31		

Second Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
Semester – III					
CC – 6	Immunology and Serology	4	4	0	0
	Immunology and Serology Lab	2	0	0	4
CC – 7	Advanced Biochemistry and Microbiology	4	4	0	0
	Advanced Biochemistry and Microbiology Lab	2	0	0	4
DSE – 2	Basics of Clinical Nutrition	4	4	0	0
	Basics of Clinical Nutrition Lab	2	0	0	4
GE – 2	Generic Elective II	4	4	0	0
AECC – 3	Environmental Science – I	2	2	0	0
SEC – 2	Mentored Seminar – II	1	1	0	0
USC – 1	Foreign Language- I	2	2	0	0
Total Credit = 27			Teaching Hour = 33		
Semester – IV					
CC – 8	Advanced Clinical Psychology	4	4	0	0
	Advanced Clinical Psychology Lab	2	0	0	4
CC – 9	Advanced Pathology	4	4	0	0
	Advanced Pathology Lab	2	0	0	4
DSE – 3	Community Health	4	4	0	0
	Community Health Lab	2	0	0	4
GE – 3	Generic Elective III	4	4	0	0
AECC – 4	Environmental Science – II	2	2	0	0
SEC – 3	Mentored Seminar – III	1	1	0	0
USC – 2	Foreign Language – II	2	2	0	0
Total Credit = 27			Teaching Hour = 33		

Third Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
Semester – V					
CC – 10	Hematology and Blood Banking	4	4	0	0
	Hematology and Blood Banking Lab	2	0	0	4
CC – 11	Advanced Histopathology and Histotechniques	4	4	0	0
	Advanced Histopathology and Histotechniques Lab	2	0	0	4
DSE – 4	Advanced Clinical Nutrition	4	4	0	0
	Advanced Clinical Nutrition Lab	2	0	0	4
GE – 4	Generic Elective IV	4	4	0	0
SEC – 4	Mentored Seminar – IV	1	1	0	0
USC – 3	Foreign Language – III	2	2	0	0
Total Credit = 25			Teaching Hour = 33		
Semester – VI					
CC – 12	Clinical Enzymology, Endocrinology and Toxicology	4	4	0	0
	Clinical Enzymology, Endocrinology and Toxicology Lab	2	0	0	4
CC – 13	Diagnostic Cytology	4	4	0	0
	Diagnostic Cytology 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
USC – 4	Foreign Language – IV	2	2	0	0
Total Credit = 26			Teaching Hour 38		

Academic Session: 2023-24

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

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Semester	Credit						Total/Sem
	CC	DSE	GE	AECC	SEC	USC	
First	18			2			20
Second	12	6	4	2	1		25
Third	12	6	4	2	1	2	27
Fourth	12	6	4	2	1	2	27
Fifth	12	6	4		1	2	25
Sixth	24					2	26
Total Credit/ Course	90	24	16	8	4	8	
Total Credit							150

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

And

Compulsory One year Internship

First Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
Semester – I					
CC – 1	Basic and Applied Human Anatomy	4	4	0	0
	Basic and Applied Human Anatomy Lab	2	0	0	4
CC – 2	Basic and Applied Human Physiology	4	4	0	0
	Basic and Applied Human Physiology Lab	2	0	0	4
CC-3	Basic Instruments & Equipment	4	4	0	0
	Basic Instruments & Equipment lab	2	2	0	0
AECC – 1	Communicative English – I	2	2	0	0
Total Credit = 20			Teaching Hour = 24		
Semester – II					
CC – 4	Basic Biochemistry & Microbiology	4	4	0	0
	Basic Biochemistry & Microbiology Lab	2	0	0	4
CC – 5	Basic Pathology & Histopathology	4	4	0	0
	Basic Pathology & Histopathology Lab	2	0	0	4
DSE- 1	Basics of Clinical Psychology	4	4	0	0
	Basics of Clinical Psychology Lab	2	0	0	4
GE – 1	Generic Elective I	4	4	0	0
AECC – 2	Communicative English – II	2	2	0	0
SEC – 1	Mentored Seminar – I	1	1	0	0
Total Credit = 25			Teaching Hour = 31		

Second Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
Semester – III					
CC – 6	Immunology and Serology	4	4	0	0
	Immunology and Serology Lab	2	0	0	4
CC – 7	Advanced Biochemistry and Microbiology	4	4	0	0
	Advanced Biochemistry and Microbiology Lab	2	0	0	4
DSE – 2	Basics of Clinical Nutrition	4	4	0	0
	Basics of Clinical Nutrition Lab	2	0	0	4
GE – 2	Generic Elective II	4	4	0	0
AECC – 3	Environmental Science – I	2	2	0	0
SEC – 2	Mentored Seminar – II	1	1	0	0
USC – 1	Foreign Language- I	2	2	0	0
Total Credit = 27			Teaching Hour = 33		
Semester – IV					
CC – 8	Advanced Clinical Psychology	4	4	0	0
	Advanced Clinical Psychology Lab	2	0	0	4
CC – 9	Advanced Pathology	4	4	0	0
	Advanced Pathology Lab	2	0	0	4
DSE – 3	Community Health	4	4	0	0
	Community Health Lab	2	0	0	4
GE – 3	Generic Elective III	4	4	0	0
AECC – 4	Environmental Science – II	2	2	0	0
SEC – 3	Mentored Seminar – III	1	1	0	0
USC – 2	Foreign Language – II	2	2	0	0
Total Credit = 27			Teaching Hour = 33		

Third Year

Category	Course Name	Credit	Teaching Scheme		
			L	T	P
Semester – V					
CC – 10	Hematology and Blood Banking	4	4	0	0
	Hematology and Blood Banking Lab	2	0	0	4
CC – 11	Advanced Histopathology and Histotechniques	4	4	0	0
	Advanced Histopathology and Histotechniques Lab	2	0	0	4
DSE – 4	Advanced Clinical Nutrition	4	4	0	0
	Advanced Clinical Nutrition Lab	2	0	0	4
GE – 4	Generic Elective IV	4	4	0	0
SEC – 4	Mentored Seminar – IV	1	1	0	0
USC – 3	Foreign Language – III	2	2	0	0
Total Credit = 25			Teaching Hour = 33		
Semester – VI					
CC – 12	Clinical Enzymology, Endocrinology and Toxicology	4	4	0	0
	Clinical Enzymology, Endocrinology and Toxicology Lab	2	0	0	4
CC – 13	Diagnostic Cytology	4	4	0	0
	Diagnostic Cytology 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
USC – 4	Foreign Language – IV	2	2	0	0
Total Credit = 26			Teaching Hour 38		