



MGM SCHOOL OF BIOMEDICAL SCIENCES
(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES)

(Deemed University u/s 3 of UGC Act 1956)

Grade “A” Accredited by NAAC

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CHOICE BASED CREDIT SYSTEM (CBCS)

(Academic Year 2024 - 25)

Curriculum for

B.Sc. Allied Health Sciences

B.Sc. Medical Laboratory Technology

Semester I to VIII

OUTLINE OF COURSE CURRICULUM

B.Sc. Medical Laboratory Technology

Semester I

Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation (CP)	Total (hrs.)	Internal Assement (IA)	Semester End Exam (SEE)	Total
Theory														
BMLT 101 L	Human Anatomy Part I	2	-	-	-	2	30	-	-	-	30	10	40	50
BMLT 102 L	Human Physiology Part I	2	-	-	-	2	30	-	-	-	30	10	40	50
BMLT 103 L	General Biochemistry & Nutrition	3	-	-	-	3	45	-	-	-	45	10	40	50
BMLT 104 L	Introduction to National Health Care System (Multidisciplinary/ Interdisciplinary)	2	-	-	-	2	30	-	-	-	30	10	40	50
BMLT 101 P	Human Anatomy Part I	-	-	1	-	-	-	-	15	-	15	-	-	-
BMLT102 P	Human Physiology Part I	-	-	1	-	-	-	-	15	-	15	-	-	-
BMLT 103 P	General Biochemistry Nutrition	-	-	1	-	-	-	-	15	-	15	-	-	-
BMLT105 P	Community Engagement & Clinical Visit (Including related practicals to the Parent course)	-	-	-	24	8	-	-	-	360	360	-	50	50
Ability Enhancement Course														
AEC 001 L	English & Communication skills	4	-	-	-	4	60	-	-	-	60	10	40	50
AEC 002 L	Environmental Sciences	4	-	-	-	4	60	-	-	-	60	10	40	50
Total		17	0	3	24	25	255	0	45	360	660	60	290	350

OUTLINE OF COURSE CURRICULUM

B.Sc. Medical Laboratory Technology

Semester II

Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	Semester End Exam (SEE)	Total
Theory														
BMLT 106 L	Human Anatomy Part II	2	-	-	-	2	30	-	-	-	30	10	40	50
BMLT 107 L	Human Physiology Part II	2	-	-	-	2	30	-	-	-	30	10	40	50
BMLT 108 L	General Microbiology	3	-	-	-	3	45	-	-	-	45	10	40	50
BMLT 109 L	Basic Pathology & Hematology	4	-	-	-	4	60	-	-	-	60	10	40	50
BMLT 110 L	Introduction to Quality and Patient safety (Multidisciplinary/Interdisciplinary)	3	-	-	-	3	45	-	-	-	45	10	40	50
Practical														
BMLT 106 P	Human Anatomy Part II	-	-	1	-	-	-	-	15	-	15	-	-	-
BMLT 107 P	Human Physiology Part II	-	-	1	-	-	-	-	15	-	15	-	-	-
BMLT 108 P	General Microbiology	-	-	1	-	-	-	-	15	-	15	-	-	-
BMLT 109 P	Basic Pathology & Hematology	-	-	1	-	-	-	-	15	-	15	-	-	-
BMLT 111 P	Community Engagement & Clinical Visit (Including related practicals to the Parent course)	-	-	-	24	8	-	-	-	360	360	-	50	50
Skill Enhancement Elective Course														
SEC 001 L	Medical Bioethics & IPR	3	-	-	-	3	45	-	-	-	45	10	40	50
SEC 002 L	Human Rights & Professional Values													
Total		17	0	4	24	25	255	0	60	360	675	60	290	350

OUTLINE OF COURSE CURRICULUM															
B.Sc. Medical Laboratory Technology															
Semester III															
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks			
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation (CP)	Total (hrs.)	Internal Assement (IA)	Semester End Exam (SEE)	Total	
Theory															
BMLT 112 L	Fundamental of Biochemistry - I	2	-	-	-	2	30	-	-	-	30	20	80	100	
BMLT 113 L	Fundamentals of Microbiology-I	3	-	-	-	3	45	-	-	-	45	20	80	100	
BMLT 114 L	Hematology and Clinical Pathology - I	2	-	-	-	2	30	-	-	-	30	20	80	100	
BMLT 115 CP	MLT Directed Clinical Education -I	-	-	-	24	8	-	-	-	360	360	-	50	50	
Practical															
BMLT 112 P	Fundamental of Biochemistry - I	-	-	2	-	1	-	-	30	-	30	10	40	50	
BMLT 113 P	Fundamentals of Microbiology-I	-	-	2	-	1	-	-	30	-	30	10	40	50	
BMLT 114 P	Hematology and Clinical Pathology - I	-	-	2	-	1	-	-	30	-	30	10	40	50	
Generic Elective Course															
GEC 001 L	Pursuit of Inner Self Excellence (POIS)	3	-	-	-	3	45	-	-	-	45	10	40	50	
GEC 002 L	Organisational Behaviour														
Total		10	0	6	24	21	150	0	90	360	600	100	450	550	

OUTLINE OF COURSE CURRICULUM															
B.Sc. Medical Laboratory Technology															
Semester IV															
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks			
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	Semester End Exam (SEE)	Total	
Theory															
BMLT 116 L	Fundamental of Biochemistry - II	2	-	-	-	2	30	-	-	-	30	20	80	100	
BMLT 117 L	Fundamentals of Microbiology-II	3	-	-	-	3	45	-	-	-	45	20	80	100	
BMLT 118 L	Hematology and Clinical Pathology - II	2	-	-	-	2	30	-	-	-	30	20	80	100	
BMLT 119 CP	MLT Directed Clinical Education -II	-	-	-	24	8	-	-	-	360	360	-	50	50	
Practical															
BMLT 116 P	Fundamental of Biochemistry - II	-	-	2	-	1	-	-	30	-	30	10	40	50	
BMLT 117 P	Fundamentals of Microbiology-II	-	-	2	-	1	-	-	30	-	30	10	40	50	
BMLT 118 P	Hematology and Clinical Pathology - II	-	-	2	-	1	-	-	30	-	30	10	40	50	
Ability Enhancement Elective Course															
AEC 003 L	Computer and Applications	3	-	-	-	3	45	-	-	-	45	10	40	50	
AEC 004 L	Good Clinical Laboratory Practice And Research Skills														
Total		10	0	6	24	21	150	0	90	360	600	100	450	550	

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Laboratory Technology														
Semester V														
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	Semester End Exam (SEE)	Total
Theory														
BMLT 120 L	Clinical Biochemistry - I	2	-	-	-	2	30	-	-	-	30	20	80	100
BMLT 121 L	Medical Microbiology-I	3	-	-	-	3	45	-	-	-	45	20	80	100
BMLT 122 L	Blood Bank and General Pathology - I	2	-	-	-	2	30	-	-	-	30	20	80	100
BMLT 123 CP	MLT Directed Clinical Education-III	-	-	-	24	8	-	-	-	360	360	-	50	50
Practical														
BMLT 120 P	Clinical Biochemistry - I	-	-	2	-	1	-	-	30	-	30	10	40	50
BMLT 121 P	Medical Microbiology-I	-	-	2	-	1	-	-	30	-	30	10	40	50
BMLT 122 P	Blood Bank and General Pathology - I	-	-	2	-	1	-	-	30	-	30	10	40	50
Discipline Specific Elective														
DSE 001 L	Basics of Clinical Skill Learning	3	-	-	-	3	45	-	-	-	45	10	40	50
DSE 002 L	Hospital Operation Management													
Total		10	0	6	24	21	150	0	90	360	600	100	450	550

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Laboratory Technology														
Semester VI														
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation (CP)	Total (hrs.)	Internal Assessment (IA)	Semester End Exam (SEE)	Total
Theory														
BMLT 124 L	Clinical Biochemistry - II	2	-	-	-	2	30	-	-	-	30	20	80	100
BMLT 125 L	Medical Microbiology-II	3	-	-	-	3	45	-	-	-	45	20	80	100
BMLT 126 L	Blood Bank and General Pathology - II	3	-	-	-	3	45	-	-	-	45	20	80	100
BMLT 127 CP	MLT Directed Clinical Education -IV	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BMLT 124 P	Clinical Biochemistry - II	-	-	2	-	1	-	-	30	-	30	10	40	50
BMLT 125 P	Medical Microbiology-II	-	-	2	-	1	-	-	30	-	30	10	40	50
BMLT 126 P	Blood Bank and General Pathology - II	-	-	2	-	1	-	-	30	-	30	10	40	50
Total		8	0	6	27	20	120	0	90	405	615	90	410	500

OUTLINE OF COURSE CURRICULUM									
B.Sc. Medical Laboratory Technology									
Semester VII & VIII									
Code No.	Core Course	Credits		Marks					
		Clinical Posing/ Rotation (CP)	Total Credits (C)	Internal Assement (IA)	Semester End Exam (SEE)	Total			
BMLT 128	B.Sc. MLT Internship (Semester VII)	20	20	20	80	100			
BMLT 129	B.Sc. MLT Internship (Semester VIII)	20	20	20	80	100			
<p>Internship is for 12 months (July-December; January-June) after deducting for national holidays/Sick Holidays/ sundays + Examination), (6 days/ week ;8 Hours/day). Minimum of 21 weeks/semester. Students are encouraged to involve in community outreach activities as part of their clinical postings without absenting himself/herself for the other regular classes. During Internship a candidate must have 100% attendance before the award of the degree. NOC from the Dean/Director, MGMSBS to be made mandatory while applying for Convocation Degree.</p>									
Internal Assessment Exam Pattern (IA) for Semester VII & VIII (Internship Program)			Scheme of University Semester End Examination (SEE) for Semester VII & VIII (Internship Program)				Attendance (10 marks) of the student. It was decided that weightage be given to attendance as per following scheme		
Internal exam pattern: Total 20 marks with following breakup			Practical exam pattern: Total 80 marks with following breakup				Attendance Percentage	Marks	
Description	Marks		Exercise	Description	Marks		< 75	Zero	
Internal exam (at department)	10 marks		Q No 1	Case Study	2 x15=30 M		75	5	
Viva	5 marks		Q No 2	Station exercise	3 x 5=15 M		76-80	6	
Log Book	5 marks		Q No 3	VIVA	15 M		81-85	7	
Total = 20 Marks			QNo 4	Log Book	10 M		86-90	8	
			QNo 5	Attendance	10 M		91-95	9	
			Total = 80 Marks				96-100	10	



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