



Annexure-4 C

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 2018 - 19)

Curriculum for

B.Sc. Allied Health Sciences

B.Sc. Medical Laboratory Technology

OUTLINE OF COURSE CURRICULUM												
B.Sc. Medical Laboratory Technology												
Semester I												
Code No.	Core Subjects	Credits/Week				Hrs/Semester				Marks		
		Lecture (L)	Tutorial (I)	Practical (P)	Total Credits (C)	Lecture (L)	Tutorial (I)	Practical (P)	Total hrs.	Internal Assessment	Semester Exam	Total
Theory												
BMLT 101 L	Human Anatomy Part I	3	-	-	3	45	-	-	45	20	80	100
BMLT 102 L	Human Physiology Part I	3	-	-	3	45	-	-	45	20	80	100
BMLT 103 L	General Biochemistry Nutrition	3	1	-	4	45	15	-	60	20	80	100
BMLT 104 L	Introduction to National Health Care System (Multidisciplinary/ Interdisciplinary)	3	-	-	3	45	-	-	45	20	80	100
Practical												
BMLT 101 P	Human Anatomy Part I	-	-	4	-	-	-	60	60	-	-	-
BMLT 102 P	Human Physiology Part I	-	-	4	-	-	-	60	60	-	-	-
BMLT 103 P	General Biochemistry	-	-	4	-	-	-	60	60	-	-	-
BMLT 105 P	Community Orientation & Clinical Visit (Including related practicals to the Parent course)	-	-	8	-	-	-	120	120	-	-	-
Ability Enhancement Elective Course												
AEC 001 L	English & Communication skills	3	-	-	3	45	-	-	45	100	-	100
AEC 002 L	Environmental Sciences											
Total		15	1	20	16	225	15	300	540	180	320	500

OUTLINE OF COURSE CURRICULUM												
B.Sc. Medical Laboratory Technology												
Semester II												
Code No.	Core Subjects	Credits/Week				Hrs/Semester				Marks		
		Lecture (L)	Tutorial (I)	Practical (P)	Total Credits (C)	Lecture (L)	Tutorial (I)	Practical (P)	Total hrs.	Internal Assessment	Semester Exam	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	20	80	100
BMLT 109 L	Basic Pathology & Hematology	3	1	-	4	45	15	-	60	20	80	100
BMLT 110 L	Introduction to Quality and Patient safety (Multidisciplinary/Interdisciplinary)	3	-	-	3	45	-	-	45	20	80	100
Practical												
BMLT 106 P	Human Anatomy Part II	-	-	4	-	-	-	60	60	-	-	-
BMLT 107 P	Human Physiology Part II	-	-	2	-	-	-	30	30	-	-	-
BMLT 108 P	General Microbiology	-	-	4	-	-	-	60	60	-	-	-
BMLT 109 P	Basic Pathology & Hematology	-	-	4	-	-	-	60	60	-	-	-
BMLT 111 P	Community Orientation & Clinical Visit (Including related practicals to the parent course)	-	-	8	-	-	-	120	120	-	-	-
Skill Enhancement Elective Course												
SEC 001 L	Medical Bioethics & IPR	3	-	-	3	45	-	-	45	100	-	100
SEC 002 L	Human Rights & Professional Values											
Total		16	1	22	17	240	15	330	585	180	320	500

OUTLINE OF COURSE CURRICULUM															
B.Sc. Medical Laboratory Technology															
Semester III															
Code No.	Core Subjects	Credits/Week					Hrs/Semester					Marks			
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Total hrs.	Internal Assessment	Semester Exam	Total	
Theory															
BMLT 112 L	Fundamental of Biochemistry - I	2	-	-	-	2	30	-	-	-	30	20	80	100	
BMLT 113 L	Fundamentals of Microbiology-I	2	1	-	-	3	30	15	-	-	45	20	80	100	
BMLT 114 L	Hematology and Clinical Pathology - I	2	1	-	-	3	30	15	-	-	45	20	80	100	
BMLT 115 CP	MLT Directed Clinical Education -I	-	-	-	-	30	10	-	-	-	450	450	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	100	-	100	
GEC 002 L	Organisational Behaviour														
Total		9	2	6	30	24	135	30	90	450	705	240	360	600	

OUTLINE OF COURSE CURRICULUM															
B.Sc. Medical Laboratory Technology															
Semester IV															
Code No.	Core Subjects	Credits/Week					Hrs/Semester					Marks			
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Total hrs.	Internal Assessment	Semester Exam	Total	
Theory															
BMLT 116 L	Fundamental of Biochemistry - II	2	-	-	-	2	30	-	-	-	30	20	80	100	
BMLT 117 L	Fundamentals of Microbiology-II	2	1	-	-	3	30	15	-	-	45	20	80	100	
BMLT 118 L	Hematology and Clinical Pathology - II	2	1	-	-	3	30	15	-	-	45	20	80	100	
BMLT 119 CP	MLT Directed Clinical Education -II	-	-	-	-	30	10	-	-	-	450	450	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	100	-	100	
AEC 004 L	Biostatistics and Research Methodology														
Total		9	2	6	30	24	135	30	90	450	705	240	360	600	

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Laboratory Technology														
Semester V														
Code No.	Core Subjects	Credits/Week					Hrs/Semester					Marks		
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Total hrs.	Internal Assessment	Semester Exam	Total
Theory														
BMLT 120 L	Clinical Biochemistry - I	2	-	-	-	2	30	-	-	-	30	20	80	100
BMLT 121 L	Medical Microbiology-I	2	1	-	-	3	30	15	-	-	45	20	80	100
BMLT 122 L	Blood Bank and General Pathology - I	2	1	-	-	3	30	15	-	-	45	20	80	100
BMLT 123 CP	MLT Directed Clinical Education-III	-	-	-	30	10	-	-	-	450	450	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
Core Elective Course														
CEC 005 L	Basics of Clinical Skill Learning	3	-	-	-	3	45	-	-	-	45	100	-	100
CEC 006 L	Hospital Operation Management													
Total		9	2	6	30	24	135	30	90	450	705	240	360	600

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Laboratory Technology														
Semester VI														
Code No.	Core Subjects	Credits/Week					Hrs/Semester					Marks		
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Total hrs.	Internal Assessment	Semester Exam	Total
Theory														
BMLT 124 L	Clinical Biochemistry - II	2	-	-	-	2	30	-	-	-	30	20	80	100
BMLT 125 L	Medical Microbiology-II	2	1	-	-	3	30	15	-	-	45	20	80	100
BMLT 126 L	Blood Bank and General Pathology - II	2	1	-	-	3	30	15	-	-	45	20	80	100
BMLT 127 CP	MLT Directed Clinical Education -IV	-	-	-	30	10	-	-	-	450	450	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		6	2	6	30	21	90	30	90	450	660	140	360	500

OUTLINE OF COURSE CURRICULUM										
B.Sc. Medical Laboratory Technology (Internship)										
Semester VII & Semester VIII										
Code No.	Core Subjects	Credits/Week				Hrs/Semester				
		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/Rotation	Total hrs.
	Sem VII (Internship)	-	-	-	720	-	-	-	720	720
	Sem VIII (Internship)				720				720	720
Total		0	0	0	1440	0	0	0	1440	1440