

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 Sector 1, Kamothe Navi Mumbai-410209, Tel.No.:022-27437631, 27437632,27432890 Email. <u>sbsnm@mgmuhs.com</u>/Website : www.mgmsbsnm.edu.in

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

Curriculum for B.Sc. Medical Laboratory Technology

MGM Institute of Health Sciences

			0	UTLINE	OF COL	IRSE CU	RRICULI	M						
			B.:	Sc. Med	ical Lab	oratory	Technol	ogy						
					Sem	ester I								
Credits/Week Hrs/Semest										er		Marks		
Code No.	Core Course	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotatio n (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Asseme nt (IA)	Semeste r End Exam (SEE)	Total
					Th	eory								
BMLT 101 L	Human Anatomy Part I	2		-	-	2	30	-	2	-	30	10	40	50
BMLT 102 L	Human Physiology Part I	2	12	-	-	2	30	-	-	-	30	10	40	50
BMLT 103 L	General Biochemistry & Nutrition	3	-	-	1-1	3	45	-	-	-	45	10	40	50
BMLT 104 L	Introduction to National Health Care System (Multidisciplinary/ Interdisciplinary)	2	-	-	121	2	30	-	-	Ŀ	30	10	40	50
	II A. D.I										1.5			
BMLT 101 P	Human Anatomy Part I	-	-	1	-	-	-	-	15 15	-	15 15	-	-	-
BMLT102 P	Human Physiology Part I	-	21	1	-	12	120	-	15	-	15	2 - A - S	-	-
BMLT 103 P BMLT105 P	General Biochemistry Nutrition Community Engagement & Clinical Visit (Including related practicals to the Parent course)	-	-	-	24	8	-	-	-	360	360		50	50
				Abi	lity Enhan	icement C	ourse							
AEC 001 L	English & Communication skills	4	<u> 121</u>		-	4	60	24	1	2	60	10	40	50
AEC 002 L	Envioronmental Sciences	4	(-)	-	-	4	60	-	-	-	60	10	40	50
	Total	17	0	3	24	25	255	0	45	360	660	60	290	350

				OUT	LINE OF COUR	SE CUR	RICULU	M						
				B.Sc.	Medical Labor	ratory T	echnolo	gy						
					Semest	ter II								
	Credits/Week Hrs/Semester													
Code No.	Core Course	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
					Theo	ory								
BMLT 106 L	Human Anatomy Part II	2	-	(-)	(7)	2	30	-	-	-	30	10	40	50
BMLT 107 L	Human Physiology Part II	2	-	23	-	2	30	12	-	-	30	10	40	50
BMLT 108 L	General Microbiology	3	-	3-3	-	3	45	-	-	-	45	10	40	50
BMLT 109 L	Basic Pathology & Hematology	4	-	1.70		4	60	-	-	1.5	60	10	40	50
BMLT 110 L	Introduction to Quality and Patient safety (Multidisciplinary/Interdisciplinary)	3		-	-	3	45	-	-	-	45	10	40	50
	a de Mersia des Mantels e una perta debitar del Re	12. A	s		Pract	ical			o. 82		2			
BMLT 106 P	Human Anatomy Part II	-		1	-	-	-	-	15	100	15	-	1.5	-
BMLT 107 P	Human Physiology Part II			1					15	1572	15	150	1.972	
BMLT 108 P	General Microbiology	-	-	1	-	-	-		15	-	15	-	1-0	1
BMLT 109 P	Basic Pathology & Hematology	-		1	-	-	-	-	15		15	-	1-1	-
BMLT 111 P	Community Engagement & Clinical Visit (Including related practicals to the Parent course)	÷	-	-	24	8	-	-	÷ I	360	360	-	50	50
				S	skill Enhancement	Elective	Course				8	30. S	Se	
SEC 001 L	Medical Bioethics & IPR										ç.			
SEC 002 L	Human Rights & Professional Values	3		-	-	3	45	-	-	-	45	10	40	50
	Total	17	0	4	24	25	255	0	60	360	675	60	290	350

			OUTI	LINE OF	COUR	SE CUI	RRICUI	LUM						
			B.	Sc. Medic			echnolog	у						
S					Semeste	er III								
		Credits/Week				Hrs/Semester						Marks		
Code No.	Core Course	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)	
					Theor	y								
BMLT 112 L	Fundamental of Biochemistry - I	2	1.53	-	1.51	2	30		1.5	1.5	30	20	80	100
BMLT 113 L	Fundamentals of Microbiology-I	3	-	-	-	3	45	-	-	- 1	45	20	80	100
BMLT 114 L	Hematology and Clinical Pathology - I	2	-	-	-	2	30	23	-	1	30	20	80	100
BMLT 115 CP	MLT Directed Clinical Education -I	1023	120	-	24	8		24	-	360	360	-	50	50
					Practic	cal								
BMLT 112 P	Fundamental of Biochemistry - I	102	(2)	2	122	1	-	-	30	121	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		121	2	-	1	-	2	30		30	10	40	50
				Gei	neric Elect	ive Cours	e			2				
GEC 001 L	Pursuit of Inner Self Excellence (POIS)	3	-	-	-	3	45	-	_	-	45	10	40	50
GEC 002 L	Organisational Behaviour												100	
	Total	10	0	6	24	21	150	0	90	360	600	100	450	550

				LINE OF										
			B.SC	. Medica	I Laborat Semester		chnology	ř						
<u>.</u>			C	redits/Wee		IV		н	s/Semeste	r			Marks	
Code No.	Core Course	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
	1				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		1-1	-	45	20	80	100
BMLT 118 L	Hematology and Clinical Pathology - II	2	-	-	-	2	30		570	i.	30	20	80	100
BMLT 119 CP	MLT Directed Clinical Education -II	- 1	-	-	24	8	-	-	-	360	360	(=1)	50	50
					Practica	1								
BMLT 116 P	Fundamental of Biochemistry - II	-	-	2	-	1	-	-	30	-	30	10	40	50
BMLT 117 P	Fundamentals of Microbiology-II		-	2	-	1	14	-	30	-	30	10	40	50
BMLT 118 P	Hematology and Clinical Pathology - II	-	-	2	-	1	1	-	30	-	30	10	40	50
			1	Ability Enha	ancement I	Elective C	ourse	1					•	
AEC 003 L	Computer and Applications													
AEC 004 L	Good Clinical Laboratory Practice And Research Skills	3	-	_	-	3	45	-	-		45	10	40	50
	Total	10	0	6	24	21	150	0	90	360	600	100	450	550

BMLT 126 P

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Total

			OUIL	INE OF	COURS	E CURF	acult	JIVI						
			B.S	c. Medica	al Labora	tory Tec	hnology							
					Semester	r V								
		Credits/Week						Hrs/Semester					Marks	
Code No.	Core Course	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)	Tota
					Theory	2								
BMLT 120 L	Clinical Biochemistry - I	2	-	Ē.	-	2	30	-	-	-	30	20	80	100
BMLT 121 L	Medical Microbiology-I	3	1	2	1	3	45	1.1	1.4	1.20	45	20	80	100
BMLT 122 L	Blood Bank and General Pathology - I	2	-	-	-	2	30	- 11	(- N	2 - 3	30	20	80	100
BMLT 123 CP	MLT Directed Clinical Education-III	-	1	1	24	8	141	101	101	360	360	12	50	50
					Practica	l								
BMLT 120 P	Clinical Biochemistry - I	-	-	2	-	1			30		30	10	40	50
BMLT 121 P	Medical Microbiology-I	-	17	2	I F	1	120		30		30	10	40	50
BMLT 122 P	Blood Bank and General Pathology - I	-	-	2	l la	1	-	-	30	-	30	10	40	50
				Discij	pline Specifi	ic Elective			1				4	
DSE 001 L	Basics of Clinical Skill Learning	- 3				3	45				45	10	40	50
DSE 002 L	Hospital Operation Management	3	-	-	-	3	45		-		43	10	40	30
	Total	10	0	6	24	21	150	0	90	360	600	100	450	550

OUTI	INF	OF	COUDSE	CURRICULUM	
0011	TINE.	Or	COURSE	CURRICULUM	

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

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		B.8	Sc. Medical L	aboratory T	echnology			
			Semes	ter VII & VII	II			
		Cr	edits	1	Marks			
Code No.	Core Course	Clinical Posing/ Rotation (CP)	Total Credits (C)	Internal Assement (IA)	Semester End Exam (SEE)	Total		
BMLT 128	B.Sc. MLT Intemship (Semester VII)	20	20	20	80	100		
BMLT 129	B.Sc. MLT Internship (Semester VIII)	20	20	20	80	100		

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.

(IA) for Seme	ent Exam Pattern ster VII & VIII p Program)	End Ex	of University S amination (SI VII & VIII (In Program)	EE) for	Attendance (10 marks It was decided that given to attendance a schem	weightage be s per following
•	oattern: Total 20 lowing breakup		exam pattern: ith following l		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 = 2	20 Marks	QNo 4	Log Book	10 M	86-90	8
		QNo 5	Attendance	10 M	91-95	9
		Т	otal = 80 Marks		96-100	10



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