



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 Dialysis Technology

Semester I to VIII

OUTLINE OF COURSE CURRICULUM

B.Sc. Medical Dialysis 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.)	Intern al Asse ment (IA)	Semeste r End Exam (SEE)	Total
Theory														
BMDT 101 L	Human Anatomy Part I	2	-	-	-	2	30	-	-	-	30	10	40	50
BMDT 102 L	Human Physiology Part I	2	-	-	-	2	30	-	-	-	30	10	40	50
BMDT 103 L	General Biochemistry & Nutrition	3	-	-	-	3	45	-	-	-	45	10	40	50
BMDT 104 L	Introduction to National Health Care System (Multidisciplinary/ Interdisciplinary)	2	-	-	-	2	30	-	-	-	30	10	40	50
BMDT 101 P	Human Anatomy Part I	-	-	1	-	-	-	-	15	-	15	-	-	-
BMDT 102 P	Human Physiology Part I	-	-	1	-	-	-	-	15	-	15	-	-	-
BMDT 103 P	General Biochemistry Nutrition	-	-	1	-	-	-	-	15	-	15	-	-	-
BMDT 105 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	Envioronmental 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 Dialysis 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														
BMDT 106 L	Human Anatomy Part II	2	-	-	-	2	30	-	-	-	30	10	40	50
BMDT 107 L	Human Physiology Part II	2	-	-	-	2	30	-	-	-	30	10	40	50
BMDT 108 L	General Microbiology	3	-	-	-	3	45	-	-	-	45	10	40	50
BMDT 109 L	Basic Pathology & Hematology	4	-	-	-	4	60	-	-	-	60	10	40	50
BMDT 110 L	Introduction to Quality and Patient safety (Multidisciplinary/Interdisciplinary)	3	-	-	-	3	45	-	-	-	45	10	40	50
Practical														
BMDT 106 P	Human Anatomy Part II	-	-	1	-	-	-	-	15	-	15	-	-	-
BMDT 107 P	Human Physiology Part II	-	-	1	-	-	-	-	15	-	15	-	-	-
BMDT 108 P	General Microbiology	-	-	1	-	-	-	-	15	-	15	-	-	-
BMDT109 P	Basic Pathology & Hematology	-	-	1	-	-	-	-	15	-	15	-	-	-
BMDT 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 Dialysis 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														
BMDT 112 L	Introduction To Dialysis	2	-	-	-	2	30	-	-	-	30	20	80	100
BMDT 113 L	Concept of Renal Disease & Disorders	2	-	-	-	2	30	-	-	-	30	20	80	100
BMDT 114 L	Pharmacology in Dialysis	2	-	-	-	2	30	-	-	-	30	20	80	100
BMDT 115 CP	MDT Directed Clinical Education -I	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BMDT 112 P	Introduction To Dialysis	-	-	2	-	1	-	-	30	-	30	10	40	50
BMDT 113 P	Concept of Renal Disease & Disorders	-	-	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		9	0	4	27	20	135	0	60	405	600	90	410	500

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Dialysis 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														
BMDT 116 L	Fundamentals of Dialysis	3	-	-	-	3	45	-	-	-	45	20	80	100
BMDT 117 L	Nutrition in Dialysis	3	-	-	-	3	45	-	-	-	45	20	80	100
BMDT 118 CP	MDT Directed Clinical Education -II	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BMDT 116 P	Fundamentals of Dialysis	-	-	4	-	2	-	-	60	-	60	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 Research & Skills													
Total		9	0	4	27	20	135	0	60	405	600	60	290	350

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Dialysis 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														
BMDT 119 L	Applied Dialysis Technology- I	3	-	-	-	3	45	-	-	-	45	20	80	100
BMDT 120 L	Advance Dialysis Technology –I	3	-	-	-	3	45	-	-	-	45	20	80	100
BMDT 121 CP	MDT Directed Clinical Education-III	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BMDT 119 P	Applied Dialysis Technology – I	-	-	2	-	1	-	-	30	-	30	10	40	50
BMDT 120 P	Advance Dialysis Technology –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		9	0	4	27	20	135	0	60	405	600	70	330	400

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Dialysis 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 Assement (IA)	Semester End Exam (SEE)	Total
Theory														
BMDT 122 L	Applied Dialysis Technology - II	4	-	-	-	4	60	-	-	-	60	20	80	100
BMDT 123 L	Advance Dialysis Technology- II	4	-	-	-	4	60	-	-	-	60	20	80	100
BMDT 124 CP	MDT Directed Clinical Education -IV	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BMDT 122 P	Applied Dialysis Technology - II	-	-	2	-	1	-	-	30	-	30	10	40	50
BMDT 123 P	Advance Dialysis Technology - II	-	-	4	-	2	-	-	60	-	60	10	40	50
Total		8	0	6	27	20	120	0	90	405	615	60	290	350

OUTLINE OF COURSE CURRICULUM									
B.Sc. Medical Dialysis 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			
BMDT 125	B.Sc. MDT Internship (Semester VII)	20	20	20	80	100			
BMDT 126	B.Sc. MDT 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.									
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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