



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 Radiology and Imaging Technology

Semester I to VIII

OUTLINE OF COURSE CURRICULUM

B.Sc. Medical Radiology & Imaging 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 Assessment (IA)	Semester End Exam (SEE)	Total
Theory														
BMRIT 101 L	Human Anatomy Part I	2	-	-	-	2	30	-	-	-	30	10	40	50
BMRIT 102 L	Human Physiology Part I	2	-	-	-	2	30	-	-	-	30	10	40	50
BMRIT 103 L	General Biochemistry & Nutrition	3	-	-	-	3	45	-	-	-	45	10	40	50
BMRIT 104 L	Introduction to National Health Care System (Multidisciplinary/ Interdisciplinary)	2	-	-	-	2	30	-	-	-	30	10	40	50
BMRIT 101 P	Human Anatomy Part I	-	-	1	-	-	-	-	15	-	15	-	-	-
BMRIT 102 P	Human Physiology Part I	-	-	1	-	-	-	-	15	-	15	-	-	-
BMRIT 103 P	General Biochemistry Nutrition	-	-	1	-	-	-	-	15	-	15	-	-	-
BMRIT 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 Radiology & Imaging 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														
BMRIT 106 L	Human Anatomy Part II	2	-	-	-	2	30	-	-	-	30	10	40	50
BMRIT 107 L	Human Physiology Part II	2	-	-	-	2	30	-	-	-	30	10	40	50
BMRIT 108 L	General Microbiology	3	-	-	-	3	45	-	-	-	45	10	40	50
BMRIT 109 L	Basic Pathology & Hematology	4	-	-	-	4	60	-	-	-	60	10	40	50
BMRIT 110 L	Introduction to Quality and Patient safety (Multidisciplinary/Interdisciplinary)	3	-	-	-	3	45	-	-	-	45	10	40	50
Practical														
BMRIT 106 P	Human Anatomy Part II	-	-	1	-	-	-	-	15	-	15	-	-	-
BMRIT 107 P	Human Physiology Part II	-	-	1	-	-	-	-	15	-	15	-	-	-
BMRIT 108 P	General Microbiology	-	-	1	-	-	-	-	15	-	15	-	-	-
BMRIT 109 P	Basic Pathology & Hematology	-	-	1	-	-	-	-	15	-	15	-	-	-
BMRIT 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 Radiology and Imaging 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														
BMRIT 112 L	Basics of Radiation Physics	3	-	-	-	3	45	-	-	-	45	20	80	100
BMRIT 113 L	Radiographic Techniques - I	2	-	-	-	2	30	-	-	-	30	20	80	100
BMRIT 114 L	Patient Care & Radiation Protection	3	-	-	-	3	45	-	-	-	45	20	80	100
BMRIT 115 CP	MRIT Directed Clinical Education - I	-	-	-	27	9	-	-		405	405	-	50	50
Practical														
BMRIT 113 P	Radiographic Techniques - 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		11	0	2	27	21	165	0	30	405	600	80	370	450

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Radiology and Imaging 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														
BMRIT 116 L	Physics for Medical Imaging	3	-	-	-	3	45	-	-	-	45	20	80	100
BMRIT 117 L	Radiographic Techniques - II	2	-	-	-	2	30	-	-	-	30	20	80	100
BMRIT 118 L	Dark Room Techniques	2	-	-	-	2	30	-	-	-	30	20	80	100
BMRIT 119 CP	MRIT Directed Clinical Education - II	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BMRIT 117 P	Radiographic Techniques - II	-	-	2	-	1	-	-	30	-	30	10	40	50
BMRIT 118 P	Dark Room Techniques	-	-	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 Lboratory Practice and Research Skills													
Total		10	0	4	27	21	150	0	60	405	615	90	410	500

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Radiology and Imaging 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														
BMRIT 120 L	Quality Assurance in Medical Imaging	2	-	-	-	2	30	-	-	-	30	20	80	100
BMRIT 121 L	Equipment for Medical Imaging - I	3	-	-	-	3	45	-	-	-	45	20	80	100
BMRIT 122 L	Special Procedures in Medical Imaging	3	-	-	-	3	45	-	-	-	45	20	80	100
BMRIT 123 CP	MRIT Directed Clinical Education - III	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BMRIT 122 P	Special Procedures in Medical Imaging	-	-	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		11	0	2	27	21	165	0	30	405	600	80	370	450

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Radiology and Imaging 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														
BMRIT 124 L	Basics of Radio Therapy and Nuclear Medicine	3	-	-	-	3	45	-	-	-	45	20	80	100
BMRIT 125 L	Equipment for Medical Imaging - II	3	-	-	-	3	45	-	-	-	45	20	80	100
BMRIT 126 L	Advanced Radiographic Techniques	3	-	-	-	3	45	-	-	-	45	20	80	100
BMRIT 127 CP	MRIT Directed Clinical Education - IV	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BMRIT 125 P	Equipment for Medical Imaging - II	-	-	4	-	2	-	-	60	-	60	10	40	50
Total		9	0	4	27	20	135	0	60	405	600	70	330	400

OUTLINE OF COURSE CURRICULUM									
B.Sc. Medical Radiology and Imaging Technology									
Semester VII & VIII									
Code No.	Core Course	Credits		Marks					
		Clinical Posing/ Rotation (CP)	Total Credits (C)	Internal Assessment (IA)	Semester End Exam (SEE)	Total			
BMRIT 128	B.Sc. MRIT Internship (Semester VII)	20	20	20	80	100			
BMRIT 129	B.Sc. MRIT 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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