



Annexure-4 B

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 Radiology and Imaging Technology

OUTLINE OF COURSE CURRICULUM												
B.Sc. Medical Radiology and Imaging Technology												
Semester I												
Code No.	Core Subjects	Credits/Week				Hrs/Semester				Marks		
		Lecture (L)	Tutorial (T)	Practical (P)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Total hrs.	Internal Assessment	Semester Exam	Total
Theory												
BMRIT 101 L	Human Anatomy Part I	3	-	-	3	45	-	-	45	20	80	100
BMRIT 102 L	Human Physiology Part I	3	-	-	3	45	-	-	45	20	80	100
BMRIT 103 L	General Biochemistry Nutrition	3	1	-	4	45	15	-	60	20	80	100
BMRIT 104 L	Introduction to National Health Care System (Multidisciplinary/ Interdisciplinary)	3	-	-	3	45	-	-	45	20	80	100
Practical												
BMRIT 101 P	Human Anatomy Part I	-	-	4	-	-	-	60	60	-	-	-
BMRIT 102 P	Human Physiology Part I	-	-	4	-	-	-	60	60	-	-	-
BMRIT 103 P	General Biochemistry	-	-	4	-	-	-	60	60	-	-	-
BMRIT 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 Radiology and Imaging Technology												
Semester II												
Code No.	Core Subjects	Credits/Week				Hrs/Semester				Marks		
		Lecture (L)	Tutorial (T)	Practical (P)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Total hrs.	Internal Assessment	Semester Exam	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	20	80	100
BMRIT 109 L	Basic Pathology & Hematology	3	1	-	4	45	15	-	60	20	80	100
BMRIT 110 L	Introduction to Quality and Patient safety (Multidisciplinary/Interdisciplinary)	3	-	-	3	45	-	-	45	20	80	100
Practical												
BMRIT 106 P	Human Anatomy Part II	-	-	4	-	-	-	60	60	-	-	-
BMRIT 107 P	Human Physiology Part II	-	-	2	-	-	-	30	30	-	-	-
BMRIT 108 P	General Microbiology	-	-	4	-	-	-	60	60	-	-	-
BMRIT 109 P	Basic Pathology & Hematology	-	-	4	-	-	-	60	60	-	-	-
BMIT 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 Radiology and Imaging 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														
BMRIT 112 L	Physics for Medical Imaging - 1	3	1	-	-	4	45	15	-	-	60	20	80	100
BMRIT 113 L	Radiographic Techniques - 1	3	-	-	-	3	45	-	-	45	20	80	100	
BMRIT 114 L	Dark Room Techniques	3	-	-	-	3	45	-	-	45	20	80	100	
BMRIT 115 CP	MRIT Directed Clinical Education - 1	-	-	-	21	7	-	-	-	315	50	-	50	
Practical														
BMRIT 112 P	Physics for Medical Imaging - 1	-	-	4	-	2	-	-	60	-	60	10	40	50
BMRIT 113 P	Radiographic Techniques - 1	-	-	4	-	2	-	-	60	-	60	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		12	1	8	21	24	180	15	120	315	630	230	320	550

OUTLINE OF COURSE CURRICULUM														
B.Sc. Medical Radiology and Imaging 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														
BMRIT 116 L	Physics for Medical Imaging - 2	3	1	-	-	4	45	15	-	-	60	20	80	100
BMRIT 117 L	Radiographic Techniques - 2	3	-	-	-	3	45	-	-	45	20	80	100	
BMRIT 118 L	Digital Imaging	3	-	-	-	3	45	-	-	45	20	80	100	
BMRIT 119 CP	MRIT Directed Clinical Education - 2	-	-	-	21	7	-	-	-	315	50	-	50	
Practical														
BMRIT 116 P	Physics for Medical Imaging - 2	-	-	4	-	2	-	-	60	-	60	10	40	50
BMRIT 117 P	Radiographic Techniques - 2	-	-	4	-	2	-	-	60	-	60	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		12	1	8	21	24	180	15	120	315	630	230	320	550

OUTLINE OF COURSE CURRICULUM															
B.Sc. Medical Radiology and Imaging 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															
BMRIT 120 L	Advanced Radiographic Techniques	3	1	-	-	4	45	15	-	-	60	20	80	100	
BMRIT 121 L	Equipment for Medical Imaging	4	-	-	-	4	60	-	-	-	60	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 - 3	-	-	-	30	10	-	-	-	450	450	50	-	50	
Practical															
BMRIT 120 P	Advanced Radiographic Techniques	-	-	4	-	2	-	-	60	-	60	10	40	50	
BMRIT 121 P	Equipment for Medical Imaging	-	-	4	-	2	-	-	60	-	60	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		13	1	8	30	28	195	15	120	450	780	230	320	550	

OUTLINE OF COURSE CURRICULUM															
B.Sc. Medical Radiology and Imaging 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															
BMRIT 124 L	Quality Assurance in Medical Imaging	3	1	-	-	4	45	15	-	-	60	20	80	100	
BMRIT 125 L	Modern Technologies in Imaging	4	-	-	-	4	60	-	-	-	60	20	80	100	
BMRIT 126 L	Protection	3	-	-	-	3	45	-	-	-	45	20	80	100	
BMRIT 127 CP	MRIT Directed Clinical Education - 4	-	-	-	30	10	-	-	-	450	450	50	-	50	
Practical															
BMRIT 124 P	Quality Assurance in Medical Imaging	-	-	4	-	2	-	-	60	-	60	10	40	50	
BMRIT 125 P	Modern Technologies in Imaging	-	-	4	-	2	-	-	60	-	60	10	40	50	
Total		10	1	8	30	25	150	15	120	450	735	130	320	450	

OUTLINE OF COURSE CURRICULUM										
B.Sc. Medical Radiology and Imaging 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