



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

M.Sc. Allied Health Sciences

M.Sc. Cardiac Care Technology

OUTLINE OF COURSE CURRICULUM														
M.Sc. Cardiac Care Technology														
Semester I														
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														
MCCT 101 L	Introduction to Clinical Cardiology	4	-	-	-	4	60	-	-	-	60	20	80	100
MCCT 102 L	Fundamentals of Cardiac Diagnostic Procedures and Investigations	3	1	-	-	4	45	15	-	-	60	20	80	100
MCCT 103 L	Introduction to Pacing and Electrophysiology Study Techniques	3	1	-	-	4	45	15	-	-	60	20	80	100
MCCT 104 CP	CCT Directed Clinical Education-I	-	-	-	21	7	-	-	-	315	315	50	-	50
Practical														
MCCT 101 P	Introduction to Clinical Cardiology	-	-	4	-	2	-	-	60	-	60	10	40	50
MCCT 102 P	Fundamentals of Cardiac Diagnostic Procedures and Investigations	-	-	4	-	2	-	-	60	-	60	10	40	50
Total		10	2	8	21	23	150	30	120	315	615	130	320	450

OUTLINE OF COURSE CURRICULUM														
M.Sc. Cardiac Care Technology														
Semester II														
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														
MCCT 105 L	Introduction to Non-Invasive Techniques in Cardiology	4	0	-	-	4	60	0	-	-	60	20	80	100
MCCT 106 L	Invasive Cardiology	3	1	-	-	4	45	15	-	-	60	20	80	100
MCCT 107 CP	CCT Directed Clinical Education-II	-	-	-	33	11	-	-	-	495	495	50	-	50
CC 001 L	Research Methodology & Biostatistics (Core Course)	4	-	-	-	4	60	-	-	-	60	20	80	100
Practical														
MCCT 105 P	Introduction to Non-Invasive Techniques in Cardiology	-	-	4	-	2	-	-	60	60	60	10	40	50
MCCT 106 P	Invasive Cardiology	-	-	4	-	2	-	-	60	60	60	10	40	50
CC 001 P	Research Methodology & Biostatistics (Core Course)	-	-	4	-	2	-	-	60	-	60	10	40	50
Core Elective Course														
CEC 001 L	Basics of Clinical Skill Learning	3	-	-	-	3	45	-	-	-	45	100	-	100
CEC 002 L	Hospital Operation Management													
Total		14	1	12	33	32	210	15	180	615	900	240	360	600

OUTLINE OF COURSE CURRICULUM														
M.Sc. Cardiac Care 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														
MCCT 108 L	Echocardiography- Advanced	4	-	-	-	4	60	-	-	-	60	20	80	100
MCCT 109 L	Quality Assurance, Standardization & Accreditation (Cardiac Care)	4	-	-	-	4	60	-	-	-	60	20	80	100
MCCT 110 CP	CCT Directed Clinical Education-III	-	-	-	21	7	-	-	-	405	405	50	-	50
MCCT 111	Dissertation / Project*	10	-	-	-	5	-	-	-	-	-	50	-	50
Practical														
MCCT 108 P	Echocardiography- Advanced	-	-	4	-	2	-	-	120	-	120	10	40	50
Seminar														
MCCT 112	Seminars	-	-	-	-	1	-	-	-	-	-	50	-	50
Total		18	0	4	21	23	120	0	120	405	645	200	200	400

OUTLINE OF COURSE CURRICULUM														
M.Sc. Cardiac Care 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 (General Elective**)														
GE 001 L	Pursuit of Inner self Excellence (POISE)	4	-	-	-	4	60	-	-	-	60	100	-	100
GE 002 L	Bioethics, Biosafety, IPR and Technology Transfer													
GE 003 L	Disaster Management and Mitigation Resources													
GE 004 L	Human Rights													
Practical														
MCCT 111	Dissertation / Project	-	-	36	-	18	-	-	-	-	-	-	200	200
MCCT 113	Educational Tour / Field Work/IV/Hospital Visit	-	-	-	-	2	-	-	-	-	-	50	-	50
Total		4	0	36	0	24	60	0	0	0	60	150	200	350