

M.Sc Integrated Program in Cardiac Technology

FIRST YEAR SUBJECTS

S L No	Subject	Theory No. of Hours	Practical No. of Hours	Total No. of Hours
1	Human Anatomy	130	-	130
2	Physiology	130	-	130
3	Biochemistry	120	-	120
4	Principles of Nursing	120	20	140
5	Bio-Physics	90	-	90
6	Environmental Studies	40	10	50
	Total	630	30	660

Foundation Course:

1. English -Internal Evaluation
2. Computer -Internal Evaluation

SECOND YEAR SUBJECTS

Sl. No.	Subject	Theory No. Of Hours	Practical No. Of Hours	Clinical posting	Total No. of Hours
1	Pathology	120	--	--	120
2.	Microbiology	90	-	--	90
3.	Applied Pharmacology	90	--	--	90
4.	Introduction to Cardiac Technology	70	100	650	820
5.	Medicine Relevant to Technology	50	---	---	50
	Total	420	100	650	1170

THIRD YEAR SUBJECTS:

Sl.	Subject	Theory	Practical No.	Clinical	Total
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No.		No. Of Hours	Of Hours	posting	No. of Hours
1.	Advanced Electrocardiography (ECG)	50	50	250	350
2.	Treadmill exercise stress testing & 24 Hour Ambulatory ECG (Holter) Recording	50	50	250	350
3.	ECHO Cardiography	50	50	250	350
4.	Cardiac Catheterization Laboratory	50	50	250	350
	Total	200	200	1000	1400

FOURTH YEAR SUBJECTS

Sl. No.	Subject	Theory No. Of Hours	Practical No. Of Hours	Clinical posting	Total No. of Hours
1.	Cardiology	100	140		240
2.	Cardiac Surgery	100	140		240
3.	Physics and Instrumentation related to Echocardiograph	100	140		240
4.	Echocardiography for Ischemic Heart Disease	100	140		240
5.	Echocardiography for Valvular Heart Disease	100	140	1200	1440
	Total	500	700	1200	2400

FIFTH YEAR SUBJECTS

Sl. No.	Subject	Theory No. Of Hours	Practical No. Of Hours	Clinical posting	Total No. of Hours
1.	Paediatric Echocardiography	120	200	300	620
2.	Echocardiography in Myocardial, Pericardial, Aortic and Systemic Disorders	120	200	300	620
3.	Equipments, Application and Error Analysis	120	200	300	620
4.	Use of Ultrasound for Non Cardiac Diagnosis	120	200	300	620
5.	Dissertation				
	Total	480	800	1200	2480