UP STATE PARAMEDICAL FACULTY



DIPLOMA IN CATH-LAB-TECHNICIAN --132

SYLLABUS Preliminary Course ANATOMY:

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SI.No. Particulars 01 Basic cells and tissues

02 Heart: Pericardium, chambers, valves, conduction systems great

vessels

03 Circulation : major arteries and veins

04 Lungs and pleura, diaphragm

05 Liver, Spleen, Kidney, Brain

PHYSIOLOGY:

01 Circulatory systems

02 Autonomic nervous system

03 Action potential, muscles contraction

04 Gas exchange

05 Thrombosis, platelet function

06 Renin angiotensin system

07 Kidney : Physiology

PHARMACOLOGY:

01 General Pharmacology

02 Sedatives

03 Anaesthetics agents

04 Analgesics

05 Drugs used for heart disease: Antianginal, Antiarrhythmic, anti failure, vessopressors, vasodilators, cardiac imaging agents, anti thrombotics

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PREVENTIVE CARDIOLOGY:

01 Diat and Nutrition

02 Smoking

03 Exercise and heart

MICROBIOLOGY:

01 Specimen collection : Blood, urine, sputum, etc. 02 Bacteria and viruses in CVS

03 Serology and immunology

SYLLABUS Final year Course

RADIOLOGY:

SI.No. Particulars 01 Principles of X-Rays 02 Protection from radiation 03 Description and recognition of Chest X-Rays 04 Different views of chest for identification of cardiopulmonary structures 05 Ultrasonography : Principles 06 Basic of Echocardiography ECG: 01 ECG machine : Parts 02 Technical of taking an ECG 03 Pitfalls in taking ECGs 04 Recognition of normal ECG waves 05 Abnormal ECG **DEFIBRILLATION:** 01 Technique 02 Indication 03 Complications **DISEASES OF HEART:** 01 Congenital 02 Rheumatic 03 Myocardial and pericardial 04 Coronary artery diseases 05 Hypertension 06 Pulmonary thromboembolism and pulmonary hypertension 07 Respiratory failure **CATHETERS AND INSTRUMENTS:** 01 Arterial Blood Gases : Technique and interpretation 02 Haemodynamic monitoring: Technique, recognition, indication, complications. 03 Fluid and electrolytes 04 X-ray imaging in cath lab 05 Intra Aortic Ballon Pulsation: Indication, Technique and complications 06 Artifician ventilation 07 Extra Corporeal Membrane Oxygenator 08 Different views of cardiac catheterization 09 Transducer, outline of C-arm, cineangio machine and oxymetry 10 Interventional catheters, balloon and stents.

	First year- Paper	19	un /	
paper	subject	marks	- /	Duration
Paper-l	ANATOMY & PHYSIOLOGY	75		
	Smiths	a	100	3hrs
	Internal Assessment	25		
Paper-II	PHARMACOLOGY, PREVENTIVE	75		
·	CARDIOLOGY, MICROBIOLOGY			
			100	3hrs
	Internal Assessment	25		
practical		100		3hrs
	Second year- Paper			

First vear- Paper

Paper-l	RADIOLOGY, ECG, DEFIBRILLATION	75	100	3hrs
	Internal Assessment	25	100	51115
Paper-II	DISEASES OF HEART, CATHETERS AND INSTRUMENTS			3hrs
	Internal Assessment	11-		
Practical	125 Mar 0 000	5	100	3hrs

