SYLLABUS: ECG Technician in NDMC

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- 1.1 Definition & Introduction
- 1.2 History & Physiological Basics
- 1.3 Velocity Concept
- 1.4 Impulse Generation & Transmission, Cardiac Pathway
- 1.5 Normal Cardiac Rhythm, Blood Pressure & Pulse Rate
- 1.6 Central Termination of Wilson

Unit2. Basics of ECG Technique

- 2.1 Getting the Patient Prepared for ECG
- 2.2 Application of Jelly
- 2.3 Placement of Chest & Limb Leads
- 2.4 Parameters for Recording a Good Electrocardiogram

Unit3. Manual Machine

- 3.1 Introduction
- 3.2 Parts of Manual ECG Machine
- 3.3 Mode of Functioning
- 3.4 Advantages & Disadvantages
- 3.5 Practical Demonstration

Unit4. Automated Machine

- 4.1 Introduction
- 4.2 Mode of Functioning
- 4.3 Advantages
- 4.4 Practical Demonstration

Unit5. ECG Leads, Jelly & ECG Paper

- 5.1 'Unipolar & Bipolar Limb Leads
- 5.2 Augmentation Leads

	5.3	Esophageal Leads
	5.4	Color Codes in ECG Leads
	5.5	ECG Jelly & Its Component
	5.6	Role of ECG Jelly
	5.7	ECG Paper & Properties
	5.8	Normal Paper Speed & Standardization
	5.9	Calibration
	5.10	Filter
	Unit	6. Normal Electrocardiogram
	6.1	Normal P, Q & T Wave
	6.2	P-R Interval
	6.3	QRS Complex
	6.4	QT Interval & ST Segment
	6.5	Purkinjee Fibres Repolarization
	6.6	Interpretation of Normal ECG
	6.7	Duration & Amplitude of Different Normal Waves
	6.8	No. of Complexes in A Normal ECG
	Unit7	Abnormal Electrocardiogram & Interpretation
	7.1	Abnormal P-Wave & A-V Node
	7.2	LBBB & RBBB
	7.3	LVH & RVH
	7.4	Wolf Parkinson White Syndrome
	7.5	Trifasicular Blocks
-0	7.6	Lown Ganong, Levine Syndrome
	7.7	Mahim Bye pass
	7.8	Chronic Pulmonary Lung Disease (COLD), Pulmonary Embolism & COPD
	7.9	Myocardial Infarction & Mitral Stenosis
16	7.10	Mitral Valve Prolapse
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7.11 7.12	Sinus Tachycardia & Sinus Bradycardia Sick Sinus Syndrome
Unit	3. Drugs & Electrolytes
8.1 8.2	Adrenaline, Acetyl Choline, Digitalis, Quinidine, Potassium, Hyperkalemia Hyper & Hypocalcaemia, Phenothiazines, Anthrocyclines
Unit9	. Electrocardiographic Changes: in
9.1	CVA
9.2	Pericarditis & Myocarditis
9.3	Heart Trauma & Heart Malignancies
9.4	Pericardial Effusion
9.5	Partial & Complete SA Block
9.6	Paroxysmal Atrial Tachycardia (PAT)
Jnit1	0. ECG as a clue to clinical Diagnosis
10.1	Pulmonary Stenosis
10.2	Tricuspid Atresia
10.3	Atrial & Ventricular Septal Defect
10.4	Ebstein Anomaly
10.5	Mirror Image Dextrocardia
10.6	Rheumatic Heart Disease (RHD)
10.7	Athlete's Heart
10.8	Cardiac Pace Maker
Jnit1	1. Exercise ECG & Tread-Mill Test

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Introduction

TMT & Exercise ECG