

**E.C.G. TECHNICIAN**

**DEPARTMENT OF HEALTH, [MEDICAL EDUCATION, & INDIGENOUS MEDICINE]**  
**GOVERNMENT OF BIHAR, PATNA**

**COURSE/CURRICULUM FOR 2 YEARS**  
**DIPLOMA IN E.C.G. TECHNICIAN COURSE**

**SCHEME OF EXAMINATION FOR DIPLOMA IN E.C.G. TECHNICIAN COURSE**

**First Year**

<b>THEORY</b>				
<b>Sl. No.</b>	<b>Subject</b>		<b>Full Marks</b>	<b>Pass Marks</b>
1	Anatomy		100	50
2	Physiology		100	50
3	Ecocardiogram		100	50
<b>Total Theory Marks</b>			<b>300</b>	<b>150</b>
<b>PRACTICAL</b>				
4	A.	Practical	100	50
	B.	Viva	40	20
<b>Total Practical Marks</b>			<b>140</b>	<b>70</b>

**Second Year**

<b>THEORY</b>				
<b>Sl. No.</b>	<b>Subject</b>		<b>Full Marks</b>	<b>Pass Marks</b>
1	Applied Anatomy		100	50
2	ECG Recording		100	50
3	CVS Monitoring		100	50
<b>Total Theory Marks</b>			<b>300</b>	<b>150</b>
<b>PRACTICAL</b>				
4	A.	Practical	100	50
	B.	Viva	40	20
<b>Total Practical Marks</b>			<b>140</b>	<b>70</b>

**DIPLOMA IN E.C.G. TECHNICIAN COURSE**  
**FIRST YEAR**

**Paper-I (Anatomy)**

1. Anatomy of the Heart and Vessels.
2. Anatomy of lung & Respiratory System.
3. Basics of ECG Machine.
4. Pulse, Temperature and Blood Pressure : Normal Recording.
5. Set-up of Intensive Care Unit.

**Paper-II (Physiology)**

1. Normal Electrocardiogram.
2. Hypertrophy & Enlargement of Heart.
3. Conduction Block.
4. Arrhythmias.
5. Abnormalities in Pulse, Temperature & Pressure.
6. Physiology of Heart & Vessels.
7. Physiology of Lung.

**Paper-III (Ecocardiogram)**

1. Angina & ECG.
2. Myocardial Infarction & ECG.
3. Stress Electrocardiography.
4. Other Cardiac Disorder.
5. Pulmonary Disorder.

**DIPLOMA IN E.C.G. TECHNICIAN COURSE**  
**SECOND YEAR**

**Paper-I (Applied Anatomy)**

1. Reading of ECG.
2. Reporting of ECG.
3. ECG. Changes in :
  - a. Hypertrophy & Cardiac Enlargement.
  - b. Conduction block.
  - c. Arrhythmias.
  - d. Coronary artery diseases.
  - e. Stress and strain.
  - f. Yogic exercises.

**4. Paper-II (ECG Recording)**

1. Multiparameter Cardiac Monitor.
2. Duties in ICU Set-up.
3. Reporting to ICU incharge vis-à-vis emergencies.
4. Electrolyte disturbances.
5. Hypothermia.
6. Drug effect.

### **7. Paper-III (CVS Monitoring)**

1. ECG. And Diagnosis.
  2. ECG. & Management.
  3. Athletes Heart.
  4. HIV AIDS & Cardiac Change.
  5. Myxoedema & ECG.
  6. Sub- arachnoid bleed & cerebral infarct.
  7. Prognostic ECG.
  8. Drugs & ECG.
  9. Vaso-pressure drug & ECG.
- 3 Months Practical Training with ECG. Technicians.  
3 Months Practical Training in ICU Set-up.