DIPLOMA IN BIO-MEDICAL EQUIPMENT TECHNOLOGY AND MAINTENANCE

Eligibility: Engineering Degree or equivalent degree in Bio Medical / Electronics/Electrical/Electronics & Communications/Instrumentation/ M.Sc. (Electronics)/B.Sc (Electronics) OR Diploma in Electronics/Medical Electronics/ Electrical/Instrumentation or Equivalent. Final year students looking for Industrial Training can also apply.

Duration: 23 weeks

FEE: Rs 40000/-   (payable in two equal installments)

COURSE CONTENTS

- ❖ **Electrical Principles & Practical medical Electronics** :
  The trainee is taught the theory of electrical and electronics circuits by practical work and the process of fault diagnosis.

- ❖ **BIO-MEDICAL EQUIPMENT**
  Theory of operation, related Anatomy and physiology, usage (application), handling, operation, Technical details   and maintenance of following instruments

- • *Measuring , Recording and Monitoring Instruments*
  Electrocardiograph(ECG), Pulse Oximeter, Cardiac Monitor, Digital EEG and Multi-parameter Monitor

- • *Modern Imaging Systems*
  Ultrasonic Imaging System, X-Ray Machine

- • *Clinical Laboratory Instruments*
  Spectrophotometer, Semi-Auto Analyzer, Colorimeter, Microscope, Centrifuge

- • *Therapeutic Equipment*
  Cardiac Defibrillator, Short wave Diathermy, Ultrasonic Diathermy

- • *Miscellaneous Equipment*
  Suction Machine, Anesthesia Machine, Audiometer, Ventilator

- ❖ **Telemedicine:**
  -Introduction to telemedicine technology
  - Overview of International standards
  - Demonstration of telemedicine technology
  - Hands-on practice

- ❖ Additional Features

- • Trainees will be exposed to the working at repair and maintenance centers in various hospitals.

- • Demonstration of working X-ray Computed Tomography, Magnetic Resonance Imaging System and Nuclear Medical Imaging Systems is carried out in Multi-Specialty hospital.

- • Visits to Public and Private Multi-Specialty hospitals are arranged.

- • Interactive sessions, lectures and discussion of the trainees with expert Bio-medical and clinical engineers is also arranged.