INDUSTRIAL TRAINING IN BIO-MEDICAL EQUIPMENT TECHNOLOGY AND MAINTENANCE

Eligibility: Final Year students of BE/B.Tech Bio Medical / Electronics/Electrical/Electronics & Communications/Instrumentation Engineering/ M.Sc. (Electronics)

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, Anaesthesia   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-Speciality hospital.
- Visits to Public and Private Multi-Speciality hospitals are arranged.
- Interactive sessions, lectures and discussion of the trainees with expert Bio-medical and clinical engineers is also arranged.

HOW TO APPLY: For Admission, submit your College reference/training letter, admission form (download from www.cdac.in) along with fee of Rs.20000/- (1st Installment) at CDAC, A-34, Phase 8, Industrial Area, Mohali – 160059.   Fee can be paid in cash/debit card or through Demand Draft in favor of "Director CDAC", payable at Mohali.

NOTE:

- Seats are limited and admission is on first come first serve basis.
- Fee once deposited is neither refundable nor transferable from one course to another course.