

Short Term Courses – NIELIT
Advanced Diploma in Repair & Maintenance of Medical Equipment

Objective of the Course:

This course is intended for the maintenance of medical electronic equipments that ensures reliability of equipments.

Learning Outcomes:

Having undergone the course the candidates will be able to repair and maintain medical electronic equipments.

Expected Job Roles:

Service Engineer

Duration of the Course (in hours) 360 hrs

Apr. Fees (INR): Rs.35,000/-

Minimum Eligibility Criteria and pre-requisites, if any B Sc Degree in Science, Diploma in Electronics, Instrumentation

Outline of Course

S. No	Topic	Minimum No. of Hours
1.	Fundamentals of Medical Instrumentation	8 hrs
2.	Bio electronic signal & electrodes	6 hrs
3.	Physiological Transducers, Recording system	8 hrs
4.	X-Ray, X-Ray computed Tomography	16 hrs
5.	MRI, USG, ECG,EEG, Biomedical recorders	16 hrs
6.	Pulse ox meter, patient monitoring system	16 hrs
7.	Heart lung machine, BP measurement	12 hrs
8.	Cardiac defibrillator	12 hrs
9.	Surgical & short wave diathermy	16 hrs
10.	Haemodialysis machine & lithotripter	16 hrs
11.	Aesthesia machine	4 hrs
12.	Ventilators	12 hrs
13.	Radiotherapy equipment	6 hrs
14.	Hearing aids	6 hrs
15.	Patient safety	6 hrs
Theory / Lecture Hours:		160 hrs
Practical / Tutorial / Lecture Hours:		200 hrs
Total Hours:		360 hrs

Books recommended for reference and reading: DEVICE Bulletin, Medical Device & equipment Management Repair & Maintenance Provision.
 Biomedical Instrumentation by R.S. Khandpur

Group Code: HRMT

Group Name: Hardware Repair and Maintenance

Course Code: AD01

Course Name: Advanced Diploma in Repair & Maintenance of Medical Equipment