

Installation, Maintenance and Servicing

B.E. Sem. VII [BIOM]

EVALUATION SYSTEM

	Time	Marks
Theory Exam	–	–
Practical & Oral Exam	–	–
Oral Exam	2 Hrs.	50
Term Work	–	50

SYLLABUS

1. Importance of Biomedical engineering Department in the hospital
Role of Biomedical Engineer in the hospital
2. Various jobs carried out by Biomedical engineer in the industry such as – Sales and Marketing, Servicing and Maintenance, Research and development, Application specialist.
3. **Installation Techniques and / or methods**
 - Pre-installation techniques
 - Precautions to be taken
 - Assembly of instrument / system
 - Testing of instrument before final handover.
4. **4 Installation of medical equipments in various**
Departments such as
 - Cardiac Equipments
 - O. T. and O.T. equipments
 - Radiology equipments
 - Pathology equipments
 - Life saving equipments
 - I.C.U., I.C.C.U., N.I.C.U. etc.
 - Medical Gas
5. **Maintenance and Servicing**
 - Preventive Maintenance and Calibration checks
 - Types of Maintenance contracts – CMC and AMC
 - Overall maintenance, Servicing and safety precautions of Medical and Non-medical equipments
 - Insurance of Medical Equipments
6. Introduction to System operating protocol (SOP) for
 - ISO certification
 - NABH certification

Reference Books

Manuals of various equipments
