

FACULTY OF INFORMATION AND COMMUNICATION ENGINEERING

M.E. MEDICAL ELECTRONICS (R 2021)

SEMESTER – I

Course Code: MX4111 Course Title: Biomedical Instrumentation Laboratory		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	pH meter and conductivity meter	1 No.
2.	Photo transducer for pulse rate measurement	1 No.
3.	Sphygmomanometer and Stethoscope	1 No.
4.	Blood flow measurement system	1 No.
5.	Pulse Oximeter & Design Components	1 set.
6.	Multiparameter (ECG, EMG, EEG) Simulator	2 No.
7.	Function generator, DSO, Regulated Power supplies, Bread boards	8 each
8.	IC LM 324, AD 620, INA series (126, 128 etc.), 555 Timer	20 each
9.	Opto Isolator IC: MCT2E	1 No.
10.	Software tool for PCB design	1 No.

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Course Code: BM4161		Course Title: Bio Signal Processing Laboratory
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	MATLAB Software or Equivalent (signal processing toolbox and simulink)	Five user
2.	Sensor Module- User Interface. (acquiring Biosignals like ECG, EEG, EMG)	Single Unit

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SEMESTER – II

MX4211 Medical Electronics Device Design Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	Any one of these circuit simulation software (Multisim, LTspice, Logisim- evolution, Ngspice, Altium software,)	3 user
2.	DSP processor kit	3 numbers
3.	Accelerometer sensor	5 Nos
4.	Data Acquisition System (DAQ)	1 No