

Faculty of Information and Communication Engineering

M.E. Biomedical Engineering

(R 2017) Semester – I

BM5111 Clinical Instrumentation Laboratory

(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Regulated power supply(0-30 V)	3		
2.	Function generator	3		
3.	Digital storage oscilloscope	3		
4.	IC 741	10		
5.	IC 555	10		
6.	AD 620	5		
7.	ECG system	1		
8.	EMG system	1		
9.	EEG system	1		
10.	Audiometer	1		
11.	Patient monitoring system with required sensor probes	1		
12.	Biotelemetry system	1		
13.	Spirometer	1		
14.	Electro surgical diathermy unit	1		

15.	Colorimeter	1		
16.	Spectrophotometer	1		
17.	pH meter	1		
18.	Neubauer chamber	1		
19.	Electro surgical diathermy unit analyzer	1		
20.	ECG suction cup electrode and ECG limb electrode	6		
21.	Disposable electrodes(100 nos)	4		
22.	EMG Electrode / Disposable electrodes(100 nos)	1		
23.	EEG Electrodes	1		
24.	ECG gel	1		
25.	pH electrode	1		
26.	Headphone for audiometer	1		
27.	Mouth piece for spirometer (disposable)	50		

Faculty of Information and Communication Engineering

M.E. Biomedical Engineering

(R 2017) Semester – II

BM5211 Bio Signal and Image Processing Laboratory

(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	DSP Kit (any DSP starter kit)	4		
2.	Personal Computer	15		
3.	MATLAB and LabVIEW	15		
4.	Standard Goniometer(scale based)	1		
5.	Electronic goniometer with display/acquisition system	1		
6.	FEA analysis software(Comsol /Simscale or equivalent software)	1		