

B.Sc (Electronic Equipment Maintenance)

B.Sc Course structure for Electronic equipment Maintenance

Total No of Credits for Programme

B.Sc (Electronic Equipment & Maintenance)

127

Distribution among courses:

Part-1 (Languages) (6+6)			12
Part-2	Electronics	33	115
	EEM	28	
	Mathematics	21	
	Physics	33	
Total		127	

Allotment of Credits for Electronics — 33

S.No	Semester	Title of the Course	Contact Hours	Evaluation		Credits
				Internal Marks	External Marks	
1	I	<u>Paper – 1</u> Circuit Theory - I	4 L + 1 T	25	75	4
2	II	<u>Paper – 2</u> Circuit Theory - II	4 L + 1 T	25	75	4
3	III	<u>Paper – 3</u> Operational Amplifiers & Analog ICs	3 L + 1 T	25	75	3
4	IV	<u>Paper – 4</u> Analog & Digital communications	3 L + 1 T	25	75	3
5	V	<u>Paper – 5</u> Radar & Satellite Communication	3 L + 1 T	25	75	3
6	V	<u>Paper – 6</u> Television & Applications	3 L + 1 T	25	75	3
7	VI	<u>Paper – 7</u> Optical Fibre Application & Installations	3 L + 1 T	25	75	3
8	VI	<u>Paper – 8</u> Cellular Mobile Communications	4 L	25	75	4
9	I & II	<u>Practical – 1</u> Electronics Lab - I	3	25	75	1
10	III & IV	<u>Practical – 2</u> Electronics Lab - II	3	25	75	1
11	V & VI	<u>Practical – 3</u> Trouble Shooting & Maintenance Lab	3	25	75	2
12	V & VI	<u>Practical – 4</u> Programming Lab (UNIX/LINUX & C++)	3	25	75	2

Allotment of Credits for EEM — 28

S.No	Semester	Title of the Course	Contact Hours	Evaluation		Credits
				Internal Marks	External Marks	
1	I	<u>Paper – 1</u> Passive Components & Assemblies	3 L	25	75	3
2	I	<u>Paper – 2</u> Electronic Devices	3 L + 1 T	25	75	3
3	II	<u>Paper – 3</u> Digital Electronics	3 L + 1 T	25	75	3
4	II	<u>Paper – 4</u> Electronic Circuits	3 L	25	75	3
5	III	<u>Paper – 5</u> Amplifier & Oscillator Circuits	3 L	25	75	3
6	III	<u>Paper – 6</u> Microprocessor Systems	3 L	25	75	3
7	IV	<u>Paper – 7</u> Electronic Instrumentation	3 L	25	75	3
8	IV	<u>Paper – 8</u> Microcontroller & Embedded Systems	3 L	25	75	3
9	I & II	<u>Practical – 1</u> Maintenance Lab - I	2 + 2	25	75	1
10	III & IV	<u>Practical – 2</u> Maintenance Lab - II	2 + 2	25	75	1
11	V & VI	Project Work	4	100	100	2

Allotment of credits for Mathematics — 21

S.No	Semester	Title of the Course	Contact Hours	Evaluation		Credits
				Internal Marks	External Marks	
1	I	<u>Paper – 1</u> Differential Equations & Transformations	3 L + 2 T	25	75	3
2	II	<u>Paper – 2</u> Vector Analysis & Special Functions	3 L + 2 T	25	75	3
3	III	<u>Paper – 3</u> Complex Variables	3 L + 2 T	25	75	3
4	IV	<u>Paper – 4</u> Linear Algebra, Matrices & Tensors	3 L + 2 T	25	75	3
5	IV	<u>Paper – 5</u> Elements of Probability and Statistics	2 L + 1 T	25	75	2
6	V	<u>Paper – 6</u> UNIX & C	3 L + 2 T	25	75	3
7	VI	<u>Paper – 7</u> Object Oriented Programming	3 L + 2 T	25	75	3
8	IV	<u>Practical – I</u> MATLAB	3	25	75	1