

B. E. ELECTRONICS AND COMMUNICATION ENGINEERING MODULE MATRIX

Semester - I

Code	Name of the Module	Contact Hours			Credit	Marks			
						Theory	Practical		
		L	T	P		CA	EX	CA	
1	MAT101	Engineering Mathematics-I	4	1	0	12	30	70	0
2	PHY101	Engineering Physics-I	4	0	2	12	25	50	25
3	CHE101	Engineering Chemistry	3	1	2	12	25	50	25
4	EGP101	Engineering Graphics	1	0	6	12	25	50	25
5	CPL101	Introduction to Programming(C)	2	1	2	12	50	50	0
6	ACS101	Academic Skill	3	1	0	12	100	0	0

Semester - II

Code	Name of the Module	Contact Hours			Credit	Marks			
						Theory	Practical		
		L	T	P		CA	EX	CA	
1	MAT102	Engineering Mathematics -II	4	1	0	12	30	70	0
2	PHY102	Engineering Physics-II	4	0	2	12	25	50	25
3	ELC101	Electrical Circuits	3	1	0	15	40	60	0
4	CPL103	Object Orientation Programming (Java)	2	1	2	12	25	50	25
5	TSM101	Engineering Mechanics	3	1	2	12	25	50	25

Semester - III

Code	Name of the Module	Contact Hours			Credit	Marks			
						Theory	Practical		
		L	T	P		CA	EX	CA	
1	MAT201	Engineering Mathematics -III	4	1	0	12	30	70	0
2	MAT202	Statistics and Theory of Probability	2	2	0	12	50	50	0
3	NET201	Network Theory	2	1	2	15	25	50	25
4	EFT301	Electromagnetic Field Theory	3	1	0	9	30	70	0
5	ECD201	Electronics Circuit and Devices-I	2	1	2	15	25	50	25

Semester - IV

Code	Name of the Module	Contact Hours			Credit	Marks			
						Theory	Practical		
		L	T	P		CA	EX	CA	
1	DEL201	Digital Electronics and Logic Design	2	0	2	9	25	50	25
2	SAS201	Signals and Systems Engineering	2	2	0	9	25	50	25
3	ECD201	Electronics Circuit and Devices-II	2	1	2	15	25	50	25
4	CTE202	Computer Organization & Architecture	3	1	0	12	50	50	0
5	EMI203	Instrumentation Engineering	3	0	2	12	25	50	25
6	MAT206	Engineering Mathematics- IV	4	1	0	12	30	70	0

Semester - V									
Code		Name of the Module	Contact Hours			Credit	Marks		
			L	T	P		Theory		Practical
							CA	EX	CA
1	DZG101	Dzongkha for Communication	2	1	0	12	50	50	0
2	SAS302	Microprocessor & Microcontroller	3	0	2	12	25	50	25
3	DCE301	Digital Communication Engineering	3	1	2	18	25	50	25
4	SAS404	Digital Signal Processing	3	1	0	12	25	50	25
5	ATP301	Antenna and Propagation	2	1	2	15	25	50	25
6	ACE301	Analog Communication Engineering	2	1	2	15	25	50	25
Semester - VI									
Code		Name of the Module	Contact Hours			Credit	Marks		
			L	T	P		Theory		Practical
							CA	EX	CA
1	EVS301	Environmental Science	3	0	0	9	50	50	0
2	NWC201	Computer Communication and Networks	3	1	3	12	25	50	25
3	ECD303	Electronics System Design	3	0	3	18	50	0	50
4	LDC301	Linear and Digital Control Systems	3	1	2	18	25	50	25
5	CTE204	Internet Technologies and Web Engineering	3	1	3	12	25	50	25
6	SAS303	Elective-I : Advanced Microprocessor	3	1	0	15	50	50	0
Semester - VII									
Code		Name of the Module	Contact Hours			Credit	Marks		
			L	T	P		Theory		Practical
							CA	EX	CA
1	RFM401	RF and Microwave Engineering	2	1	2	15	25	50	25
2	FOC401	Fibre Optic Communication	2	1	2	15	25	50	25
3	VLS401	VLSI Systems	2	1	2	15	25	50	25
4	PRW401	Project Work	0	0	0	0	0	0	0
5	SEM401	Seminar	0	0	0	6	100	0	0
6	MGT301	Elective II : Entrepreneurship Development	2	2	0	12	70	30	0
Semester - VIII									
Code		Name of the Module	Contact Hours			Credit	Marks		
			L	T	P		Theory		Practical
							CA	EX	CA
1	MGT401	Management	3	1	0	12	30	70	0
2	WCS401	Wireless Communication Engineering	3	0	0	12	30	70	0
3	OJT401	OJT	0	0	0	0	100	0	0
4	PRW401	Project Work	0	0	2	18	70	30	0
5	ELE301	Elective -III : Power Electronics	3	1	0	15	50	50	0
6	RNE401	Elective - IV : Renewable Energy Resources	3	1	0	15	50	50	0