

ECE I. B.Tech, I-SEMESTER

S.No.	Category	Subject code	Name of subject	Credits			Total credits	Hours			Total Hours	Total Marks
				L	T	P		L	T	P		
1	BS	GR15A1001	Linear Algebra and Single Variable Calculus	2	1		3	2	2		4	100
2	BS	GR15A1002	Advanced Calculus	2	1		3	2	2		4	100
3	BS	GR15A1008	Engineering Chemistry	2	1		3	2	2		4	100
4	HS	GR15A1005	English	2	1		3	2	2		4	100
5	ES	GR15A1018	Basic Electrical Engineering	3	1		4	3	2		5	100
6	ES	GR15A1009	Computer Programming	2	1		3	2	2		4	100
7	ES	GR15A1025	IT Workshop			2	2			4	4	75
8	BS	GR15A1030	Engineering Chemistry lab			2	2			4	4	75
9	ES	GR15A1027	Computer Programming lab			2	2			4	4	75
Total				13	6	6	25	13	12	12	37	825

ECE I. B.Tech, II-SEMESTER

S.No.	Category	Subject code	Name of subject	Credits			Total credits	Hours			Total Hours	Total Marks
				L	T	P		L	T	P		
1	BS	GR15A1003	Transform Calculus and Fourier Series	2	1		3	2	2		4	100
2	BS	GR15A1004	Numerical Methods	2	1		3	2	2		4	100
3	BS	GR15A1007	Engineering Physics	2	1		3	2	2		4	100
4	ES	GR15A1010	Data Structures	2	1		3	2	2		4	100
5	ES	GR15A1023	Engineering Graphics	1		2	3	1		4	5	100
6	ES	GR15A1019	Fundamentals of Electronics Engineering	3	1		4	3	2		5	100
7	HS	GR15A1024	Business Communication and Soft Skills			2	2			4	4	75
8	ES	GR15A1026	Engineering Workshop			2	2			4	4	75
9	BS	GR15A1029	Engineering Physics lab			2	2			4	4	75
Total				12	5	8	25	12	10	16	38	825

ECE II. B.Tech, I-SEMESTER

S.No.	Category	Subject code	Name of subject	Credits			Total credits	Hours			Total Hours	Total Marks
				L	T	P		L	T	P		
1	PC	GR15A2047	Electrical Circuits	2	1		3	2	2		4	100
2	PC	GR15A2048	Electronic Circuit Analysis	3	1		4	3	2		5	100
3	PC	GR15A2049	Signals and Systems	3	1		4	3	2		5	100
4	PC	GR15A2050	Probability Theory and Stochastic Processes	3	1		4	3	2		5	100
5	PC	GR15A2043	Digital Electronics	3	1		4	3	2		5	100
6	PC	GR15A2051	Electronics Circuits Analysis Lab			2	2			4	4	75
7	PC	GR15A2052	Signals and Systems Lab			2	2			4	4	75
8	PC	GR15A2053	Digital Electronics Lab			2	2			4	4	75
Total				14	5	6	25	16	12	12	36	725
	MC	GR15A2002	Value Education and Ethics					2	2		4	100
	MC	GR15A2106	Gender Sensitization Lab			2		2	2		2	75

ECE II. B.Tech, II-SEMESTER

S.No.	Category	Subject code	Name of subject	Credits			Total credits	Hours			Total Hours	Total Marks
				L	T	P		L	T	P		
1	PC	GR15A2054	Electromagnetic Theory and Transmission Lines	3	1		4	3	2		5	100
2	PC	GR15A2055	Microcontrollers	3	1		4	3	2		5	100
3	PC	GR15A2056	Analog Communications	3	1		4	3	2		5	100
4	PC	GR15A2057	Analog Electronics	3	1		4	3	2		5	100
5	PC	GR15A2058	Special functions and Complex variables	2	1		3	2	2		4	100
6	PC	GR15A2059	Microcontrollers Lab			2	2			4	4	75
7	PC	GR15A2060	Analog Communications Lab			2	2			4	4	75
8	PC	GR15A2061	Analog Electronics Lab			2	2			4	4	75
Total				14	5	6	25	16	12	12	36	725
MC		GR15A2001	Environmental Science			2		2	2		2	100

ECE III. B.Tech, I-SEMESTER

S.No.	Category	Subject code	Name of subject	Credits			Total credits	Hours			Total Hours	Total Marks
				L	T	P		L	T	P		
1	PC	GR15A3042	Antennas and Wave Propagation	3	1		4	3	2		5	100
2	PC	GR15A3041	Digital Communications	3	1		4	3	2		5	100
3	PC	GR15A3043	VLSI Design	2	1		3	2	2		4	100
Open Elective-I												
4	OE		Computer Architecture and Organization(ECE)	3	1		4	3	2		5	100
	OE		CSE									
	OE		IT									
	OE		ME									
	OE		CIV									
	OE		EEE									
Professional Elective-I												
5	PE	GR15A3104	Linear Control Systems	3	1		4	3	2		5	100
	PE	GR15A3109	Modelling and Simulation of Communication Systems									
	PE	GR15A2063	Data Base Management Systems									
Labs												
6	PC	GR15A3045	Digital Communications Lab			2	2			4	4	75
7	PC	GR15A3044	VLSI Design Lab			2	2			4	4	75
8	BS	GR15A3100	Advanced English Communication Skills Lab			2	2			4	4	75
Total				14	5	6	25	14	10	12	36	725

ECE III. B.Tech, II-SEMESTER

S.No.	Category	Subject code	Name of subject	Credits			Total credits	Hours			Total Hours	Total Marks
				L	T	P		L	T	P		
1	HS	GR15A2104	Managerial Economics and Financial Anaysis	2	1		3	2	2		4	100
2	PC	GR15A3048	Microwave Engineering	3	1		4	3	2		5	100

3	PC	GR15A3046	Digital Signal Processing	3	1		4	3	2		5	100
Open Elective-II												
4	OE-II		Principles of Operating Systems(ECE)	3	1		4	3	2		5	100
	OE-II		CSE									
	OE-II		IT									
	OE-II		M.Tech									
	OE-II		CIV									
OE-II		EEE										
Professional Elective-II												
5	PE	GR15A2077	Computer Networks	3	1		4	3	2		5	100
	PE	GR15A3110	Information Theory & Coding									
	PE	GR15A3113	Software Engineering									
Labs												
6	PC	GR15A3049	Digital Signal Processing Lab			2	2			4	4	75
7	PC	GR15A2072	OOP through Java Lab			2	2			4	4	75
8	PC	GR15A3101	Industry Oriented Mini Project Lab			2	2			4	4	75
Total				14	5	6	25	14	10	12	36	725

ECE IV. B.Tech, I-SEMESTER

S.No.	Category	Subject code	Name of subject	Credits			Total credits	Hours			Total Hours	Total Marks
				L	T	P		L	T	P		
1	HS	GR15A3102	Management Science	3	1		4	3	2		5	100
2	PC	GR15A4060	Cellular and Mobile and Communications	2	1		3	2	2		4	100
3	PC	GR15A3070	Embedded Systems design	3	1		4	3	2		5	100
Open Elective-III												
4	OE III		Principles of Satellite Communications	3	1		4	3	2		5	100
	OE III		CSE									
	OE III		IT									
	OE III		ME									
	OE III		CIV									
OE III		EEE										
Professional Elective-III												
5	PE	GR15A4059	Electronic Measurements and Instrumentation	3	1		4	3	2		5	100
	PE	GR15A4072	Digital Signal Processors and Architectures									
	PE	GR15A4150	Modern Control Systems									
Labs												
6	PC	GR15A4066	Microwave Engineering Lab			2				4	4	75
7	PC	GR15A4068	Embedded Systems Design Lab			2				4	4	75
8	PC	GR15A4067	Communication Protocols Lab			2				4	4	75
Total				14	5	6	25	14	10	12	36	725

ECE IV. B.Tech, II-SEMESTER

S.No.	Category	Subject code	Name of subject	Credits			Total credits	Hours			Total Hours	Total Marks
				L	T	P		L	T	P		

1	PC	GR15A4069	Digital Image Processing	2	1		3	2	2		4	100
Professional Elective-IV												
2	PE	GR15A4070	Radar Systems	3	1		4	3	2		5	100
	PE	GR15A4061	Optical Communications									
	PE	GR15A4063	Wireless Communication Networks									
Professional Elective-V												
3	PE	GR15A4151	Principles of Cloud Computing	3	1		4	3	2		5	100
	PE	GR15A4152	Audio and Video Engineering									
	PE	GR15A4153	Radio Navigational Aids									
Lab & Others												
4	PC	GR15A4076	Digital Image Processing Lab			2	2			4	4	75
5	SPW	GR15A4143	Seminar			1	1			2	2	100
6	SPW	GR15A4142	Comprehensive Viva			1	1			2	2	100
7	SPW	GR15A4144	Major Project			10	10			14	14	200
Total				8	3	14	25	8	6	22	36	775