

Department of Electronics and Telecommunication

COMMON FIRST YEAR PROGRAM STRUCTURE FOR ALL B.TECH BRANCHES

FIRST SEMESTER

SI No.	Course Code	Course Title	Contact Hours						Evaluation Scheme		Subject Total	Credits
									Seasonal Exam	ESE		

THEORY COURSES

			L	T	P	CT	TA	Total	ESE		
1	BSCT10	Mathematics –I	3	1	0	30	20	50	100	150	4
2	BSCT102/ BSCT103	*Physics/Chemistry	3	1	0	30	20	50	100	150	4
3	BHST101	English	2	0	0	30	20	50	50	100	2
4	BCST101 / BEET101	Programming for Problem Solving / Basic Electrical Engineering	3	1	0	30	20	50	100	150	4
5	Induction Program		3 Weeks Duration								

PRACTICAL / TRAINING / PROJECT

1	BSCP102/ BSCP103	Physics/ Chemistry Lab	0	0	3	-	25	25	25	50	1.5
2	BHSP101	Language Lab	0	0	2	-	25	25	25	50	1
3	BCSP101 / BEEP101	Programming for Problem Solving Lab / Basic Electrical Engineering			3	-	25	25	25	50	2
		Total	11	2	8					700	17.5

SECOND SEMESTER

1	BSCT201	Mathematics –II	3	1	0	30	20	50	100	150	4
2	BSCT202/ BSCT20	*Physics/ Chemistry	3	1	0	30	20	50	100	150	4
3	BCST201 / BEET201	Programming for Problem Solving / Basic Electrical Engineering	3	1	0	30	20	50	100	150	4
4	BEST201	Environmental Sciences	2	0	0	-	-	-	50	50	-

PRACTICAL / TRAINING / PROJECT

1	BSCP202/ BSCP203	Physics/ Chemistry Lab	0	0	3	-	25	25	25	50	1.5
2	BMEP201	Workshop/ Manufacturing Practices	1	0	3	-	50	50	50	100	3
3	BMEP202	Engineering Graphics & Design	1	0	3	-	50	50	50	100	3
4	BCSP201 / BEEP201	Programming for Problem Solving Lab / Basic Electrical Engineering	0	0	2	-	25	25	25	50	1.5
		Total	11	3	11	-	-	-	-	950	21

BACHELOR OF TECHNOLOGY (ELECTRONICS ANDTELECOMMUNICATION)

THIRD SEMESTER

SI No.	Course Code	Course Title	Contact Hours						Evaluation Scheme		Subject Total	Credit
									Seasonal Exam	ESE		

THEORY COURSES

			L	T	P	CT	TA	Total	ESE		
1	TCS-301	Computer Based Numerical Technique	2	1	0	15	10	25	75	100	3
2	TEC-301	Electronic Devices and Circuits	3	1	0	30	20	50	100	150	4
3	TEC-302	Digital Electronic and Design Aspects	3	1	0	30	20	50	100	150	4
4	TEC-303	Electronic Measurement and Instrumentation	3	1	0	30	20	50	100	150	4
5	TEE-301	Network Analysis and Synthesis	3	1		30	20	50	100	150	4
6	THM-301	Engineering Economics	2	0	0	15	10	25	75	100	2

PRACTICAL / TRAINING / PROJECT

1	PEC-351	Electronic Circuits Lab	0	0	2	-	-	25	25	50	3
2	PEC-352	Digital Electronics Lab	0	0	2	0	0	25	25	50	2
3	PEE-353	Measurement Lab	0	0	2			25	25	50	2
4		Personality development/GP	-	-	-	-	-	50	-	50	
		Total	16	5	6			375	625	1000	28

FOURTH SEMESTER

THEORY COURSES

1	TEC-401	Electro Magnetic Field Theory	3	1	0	30	20	50	100	150	4
2	TEC-402	Ana log Integrated Circuits	3	1	0	30	20	50	100	150	4
3	TCS-401	Computer Organization	2	1	0	15	10	25	75	100	3
4	TEC-404	Signal and Systems	3	1	0	30	20	50	100	150	4
5	TEC-405	Analog Communication	3	1	0	30	20	50	100	150	4
6	TEC-406	Solid State Devices and Semiconductor Materials	2	1		15	10	25	75	100	2

PRACTICAL / TRAINING / PROJECT

1	PEC-451	Analog Integrated Circuit Lab	0	0	2	0	0	25	25	50	2
2	PEC-452	Circuit Design on PCB	0	0	2	0	0	25	25	50	3
3	PEC-453	Analog Communication Lab	0	0	2	0	0	25	25	50	2
4		Personality Development/GP	-	-	-	-	-	50		50	
		Total	16	6	6		-	375	625	1000	28

BACHELOR OF TECHNOLOGY (ELECTRONICS AND TELECOMMUNICATION)

FIFTH SEMESTER

SI No.	Course Code	Course Title	Contact Hours					Evaluation Scheme		Subject Total
								Seasonal Exam	ESE	

THEORY COURSES

			L	T	P	CT	TA	Total	ESE	
1	TEC-501	Automatic Control Systems	3	1	0	30	20	50	100	150
2	TEC-502	Digital Signal Processing	3	1	0	30	20	50	100	150
3	TEC-503	VLSI Technology	3	0	0	30	20	50	100	150
4	TEC-504	Advanced Microprocessors	3	1	0	30	20	50	100	150
5	TIC-505	Antenna And Wave Propagation	3	1		30	20	50	100	150
6	TCS-507	Concepts of Programming and OOPs	2	1	0	15	10	25	50	75

PRACTICAL / TRAINING / PROJECT

1	PEC-551	Advanced Microprocessors Lab.	0	0	2	-	-	25	25	50
2	PCS-554	Concepts of Programming and OOPs (C++, Java) Lab.	0	0	2	0	0	25		25
3	PEC-552	DSP Lab.	0	0	2			25	25	50
4		Discipline	0	0	2	0	0	50	0	50
		Total	17	5	8			400	600	1000

SIXTH SEMESTER

THEORY COURSES

1	TEC-601	Microwave Techniques	3	1	0	30	20	50	100	150
2	TEC-602	VLSI Circuit Design	3	1	0	30	20	50	100	150
3	TEC-603	Telecommunication Switching Systems	3	1	0	30	20	50	100	150
4	TEC-604	Digital Communication	3	1	0	30	20	50	100	150
5	TCS-607	Data Structures using C++	3	1	0	30	20	50	100	150
6	THU-608	Principles of Management	2	1		15	10	25	50	75

PRACTICAL / TRAINING / PROJECT

1	PEC-651	Digital Communication Lab.	0	0	2	0	0	25	25	50
2	PCS-654	Data Structure Lab.	0	0	2	0	0	0	25	25
3	PEC-652	Microwave Lab.	0	0	2	0	0	25	25	50
4		DISCIPLINE	0	0	2	0	0	50	0	50
		Total	17	6	8		-	375	625	1000

BACHELOR OF TECHNOLOGY (Electronics and Telecommunication)

SEVENTH SEMESTER

SI No.	Course Code	Course Title	Contact Hours						Evaluation Scheme		Subject Total
									Seasonal Exam	ESE	

THEORY COURSES

			L	T	P	CT	TA	Total	ESE	
1	TEC-701	Optical Fibre Communication Systems	3	1	0	30	20	50	100	150
2	TEC-702	Wireless Communication Systems	3	1	0	30	20	50	100	150
3	TEC-703	Satellite Communication	3	0	0	30	20	50	100	150
4	TEC-01X	Elective I	3	1	0	30	20	50	100	150
5	TOE-XX	Open Elective	3	1		30	20	50	100	150

PRACTICAL / TRAINING / PROJECT

1	PIC-751	Project	0	0	4	-	-	50	50	100
2	PIC-752	Industrial Interaction	0	0	2	-		25	25	50
3	PEC-753	OFC & VLSI Simulation Lab.	0	0	2			25	25	50
4		Seminar	0	0	2	-		50	0	50
		Total	15	4	10			400	600	1000

EIGHTH SEMESTER

THEORY COURSES

1	TEC - 801	Radar & Navigation	3	1	0	30	20	50	100	150
2	TEC - 802	Data Communication Networks	3	1	0	30	20	50	100	150
3	TEC – 02X	ELECTIVE-II	3	1	0	30	20	50	100	150
4	TEC – 03x	ELECTIVE-III	3	1	0	30	20	50	100	150

PRACTICAL / TRAINING / PROJECT

1	PEC-851	Project	0	0	6	0	0	100	200	300
2	PCS-854	CAD of Electronics Lab.	0	0	2	0	0	25	25	50
3		Discipline	0	0	2	-	0	0	50	50
		Total	12	4	10		-	325	675	1000

LIST OF ELECTIVE SUBJECTS

ELECTIVE I

TEC 011	Digital System Design Using UHDL
TEC 012	Artificial Neural Networks and Fuzzy Logic
TEC 013	Principles of Secure Communication
TEC 014	Mobile Computing

ELECTIVE II

TEC 021	Spread Spectrum System
TEC 022	Reliability Engineering
TEC 023	Selected Topics in Communication
TEC 024	Digital Image Processing

ELECTIVE III

TEC 031	Random Signal Theory
TEC 032	Optical Networks
TEC 033	Adaptive Signal Processing
TEC 034	Embedded Systems