

R-16
UG
SCHEME
ECE

**SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATHI MAHILA VISVAVISYALAYAM
(SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ECE)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING I YEAR – I
SEMESTER (2016-17)**

S.NO.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration hrs	Max. Marks	Duration hrs	Max. Marks		
1	BST01	English	4	-	4	2	30	3	70	100	
2	BST03	Engineering Mathematics – I	4	-	4	2	30	3	70	100	
3	BST05	Engineering Physics	4	-	4	2	30	3	70	100	
4	CST01	Problem Solving and Computer Programming	4	-	4	2	30	3	70	100	
5	ECT01	Electronic Materials and Devices	4	-	4	2	30	3	70	100	
PRACTICALS											
S.NO.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration hrs	Max. Marks	Duration in hrs		Max. Marks
6	MEP01	Engineering Graphics	-	4	2	20	2	20	3	60	100
7	BSP01	English Language Lab	-	2	1	20	2	20	3	60	100

8	BSP03	Engineering Physics Lab	-	2	1	20	2	20	3	60	100
9	CSP01	Computer Programming Lab	-	2	1	20	2	20	3	60	100
TOTAL			20	10	25						900

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING I YEAR – II
SEMESTER (2016-17)**

S.NO.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration hrs	Max. Marks	Duration hrs	Max. Marks		
1	BST02	Environmental Studies	4	-	4	2	30	3	70	100	
2	BST06	Engineering Mathematics – II	4	-	4	2	30	3	70	100	
3	BST04	Engineering Chemistry	4	-	4	2	30	3	70	100	
4	CST02	Data Structures	4	-	4	2	30	3	70	100	
5	MET19	Elements of Mechanical Engineering	4	-	4	2	30	3	70	100	
6	EET01	Circuits and Networks-I	4	-	4	2	30	3	70	100	
PRACTICALS											
S.NO.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration hrs	Max. Marks	Duration in hrs		Max. Marks
7	MEP02	Workshop	-	2	1	20	2	20	3	60	100
8	BSP02	Engineering Chemistry Lab	-	2	1	20	2	20	3	60	100
9	CSP02	Data Structures Lab	-	2	1	20	2	20	3	60	100
TOTAL			24	6	27						800

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
II YEAR – I SEMESTER (2016-17)**

S.NO.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration hrs	Max. Marks	Duration hrs	Max. Marks		
1	BST07	Engineering Mathematics-II	4	-	4	2	30	3	70	100	
2	EET18	Electrical Technology	4	-	4	2	30	3	70	100	
3	ECT02	Signals and Systems	4	-	4	2	30	3	70	100	
4	ECT03	Digital Electronics	4	-	4	2	30	3	70	100	
5	EET04	Electro Magnetic Theory	4	-	4	2	30	3	70	100	
6	ECT04	Electronic Circuits	3	-	3	2	30	3	70	100	
PRACTICALS											
S.NO.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration hrs	Max. Marks	Duration in hrs		Max. Marks
7	ECP01	Electronic Devices Lab	-	2	1	20	2	20	3	60	100
8	ECP02	Electrical Circuits and Digital Electronics Lab	-	2	1	20	2	20	3	60	100
9	ECP03	Electronic Circuits Lab	-	2	1	20	2	20	3	60	100
TOTAL			23	6	26						900

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
II YEAR – II SEMESTER (2016-17)**

S.NO.	Course Number	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration hrs	Max. Marks	Duration hrs	Max. Marks		
1	BST09	Managerial Economics and Financial Analysis	4	-	4	2	30	3	70	100	
2	ECT05	Analog Communications	4	-	4	2	30	3	70	100	
3	ECT06	Probability Theory and Random Process	4	-	4	2	30	3	70	100	
4	EET07	Control Systems	4	-	4	2	30	3	70	100	
5	ECT07	Analog IC Applications	4	-	4	2	30	3	70	100	
6	ECT08	EM waves and Transmission Lines	4	-	4	2	30	3	70	100	
PRACTICALS											
S.NO.	Course Number	Name of the Course	Instructions (hrs per week)			Continuous Evaluation Max Marks	Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits		Internal Exam		External Exam		
						Duration hrs	Max. Marks	Duration in hrs	Max. Marks		
7	ECP04	Analog Communications Lab	-	2	1	20	2	20	3	60	100
8	ECP05	IC Applications Lab	-	2	1	20	2	20	3	60	100
TOTAL					26						800

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING III YEAR – I
SEMESTER (2016-17)**

S.NO.	Course Code	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration in hrs	Max. Marks		
1	BST10	Management Science	3	-	3	2	30	3	70	100	
2	ECT09	Microprocessors and Interfacing	4	-	4	2	30	3	70	100	
3	ECT10	Digital Signal Processing	4	-	4	2	30	3	70	100	
4	ECT11	Antennas and Wave Propagation	4	-	4	2	30	3	70	100	
5	ECT12	Digital Communication	4	-	4	2	30	3	70	100	
6	CST08	Computer Organization	4	-	4	2	30	3	70	100	
PRACTICALS											
S.NO.	Course Code	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration in hrs	Max. Marks	Duration in hrs		Max. Marks
7	ECP06	Microprocessors Lab	-	2	1	20	2	20	3	60	100
8	ECP07	Digital Communication Lab	-	2	1	20	2	20	3	60	100
9	ECP08	Digital Signal Processing Lab	-	2	1	20	2	20	3	60	100
TOTAL					26						900

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
III YEAR – II SEMESTER (2016-17)**

S.NO.	Course Code	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration in hrs	Max. Marks		
1	ECT13	Digital Design using VHDL	4	-	4	2	30	3	70	100	
2	ECT14	Microcontroller and Interfacing	4	-	4	2	30	3	70	100	
3	ECT15	VLSI Design	4	-	4	2	30	3	70	100	
4	CST43	Basics of Computer Networks	4	-	4	2	30	3	70	100	
5		Elective -I	3	-	3	2	30	3	70	100	
6		Elective -II	3	-	3	2	30	3	70	100	
PRACTICALS											
S.NO.	Course Code	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration in hrs	Max. Marks	Duration in hrs		Max. Marks
7	ECP09	VHDL Lab	-	2	1	20	2	20	3	60	100
8	ECP10	Microcontroller Lab	-	2	1	20	2	20	3	60	100
TOTAL					24						800

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IV YEAR – I SEMESTER (2016-17)**

S.NO.	Course Code	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory/ Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration in hrs	Max. Marks		
1	ECT16	Microwave Engineering	4	-	4	2	30	3	70	100	
2	ECT17	Cellular Mobile Communications	4	-	4	2	30	3	70	100	
3	ECT18	Optical Communication Networks	4	-	4	2	30	3	70	100	
4	ECT19	Embedded systems	4	-	4	2	30	3	70	100	
5		Elective-III	3	-	3	2	30	3	70	100	
6		Elective-IV	3	-	3	2	30	3	70	100	
PRACTICALS											
S.NO.	Course Code	Name of the Course	Instructions (hrs. per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration (hrs)	Max. Marks	Duration in hrs		Max. Marks
7	ECP11	Optical Communication Lab	-	2	1	20	2	20	3	60	100
8	ECP12	Microwave Engineering Lab	-	2	1	20	2	20	3	60	100
TOTAL					24						800

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IV YEAR – II SEMESTER (2016-17)**

S.NO.	Course Code	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory/ Tutorial	Practical	Credits	Internal Exam		External Exam			
						Duration (hrs)	Max. Marks	Duration in hrs	Max. Marks		
1	ECT20	Wireless Communication Networks	4	-	4	2	30	3	70	100	
2		Elective-V	3	-	3	2	30	3	70	100	
3		Elective- VI	3	-	3	2	30	3	70	100	
PRACTICALS											
S.NO.	Course Code	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks	
			Theory / Tutorial	Practical	Credits	Continuous Evaluation Max Marks	Internal Exam		External Exam		
							Duration (hrs)	Max. Marks	Duration in hrs		Max. Marks
4	ECP13	Project work	-	2	6	20	2	20	3	60	100
TOTAL					16					400	

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III YEAR – II SEMESTER (2016-17)**

ELECTIVE-1

S.No.	Course Code	Name of the Course	Instructions (hrs) per week			Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam		
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
1	ECT30	Electronic Measurements	3	-	3	2	30	3	70	100
2	ECT28	Micro-electromechanical systems	3	-	3	2	30	3	70	100
3	EET20	Modern Control Theory	3	-	3	2	30	3	70	100
4	EET23	Neural Networks & Fuzzy Logic	3	-	3	2	30	3	70	100
5	CSP13	Advanced Programming Lab		-	3	2	40	3	60	100

ELECTIVE-2

S.No.	Course Code	Name of the Course	Instructions (hrs) per week			Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam		
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
1	ECT29	Bio-Medical Instrumentation	3	-	3	2	30	3	70	100
2	CST48	Fundamentals of Database Management Systems	3	-	3	2	30	3	70	100
3	CST45	Principles of Operating Systems	3	-	3	2	30	3	70	100
4	ECT31	DSP Processor & Architecture	3	-	3	2	30	3	70	100
5	MUP01	Music (Open Elective)			4		40	3	60	100
6	MUP02	Dance- Bharathanatyam (Open Elective)			4		40	3	60	100
7	MUP03	Dance- Kuchipudi(Open Elective)			4		40	3	60	100

III YEAR- I SEMESTER (ELECTIVE-III)

S.No.	Course Code	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam		
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
1	ECT32	Telecommunication Switching and Networks	3	-	3	2	30	3	70	100
2	MET33	Industrial Robotics	3	-	3	2	30	3	70	100
3	ECT33	Wireless Sensor Networks	3	-	3	2	30	3	70	100
4	ECT34	Satellite Communication	3	-	3	2	30	3	70	100

IV YEAR- I SEMESTER (ELECTIVE-IV)

S.No.	Course Code	Name of the Course	Instructions (hrs per week)			Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam		
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
1	ECT35	GPS and Applications	3	-	3	2	30	3	70	100
2	CST46	OOPS through Java Programming	3	-	3	2	30	3	70	100
3	ECT36	Digital Image Processing	3	-	3	2	30	3	70	100
4	ECT37	IC Fabrication Technology	3	-	3	2	30	3	70	100

IV YEAR- II SEMESTER (ELECTIVE-V)

S.No.	Course Code	Name of the Course	Instructions (hrs) per week			Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam		
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
1	ECT38	Opto Electronics	3	-	3	2	30	3	70	100
2	ECT39	Spread Spectrum Communications	3	-	3	2	30	3	70	100
3	CST51	Fundamentals of Cryptography and Network Security	3	-	3	2	30	3	70	100
4	ECT40	Pattern Recognition	3	-	3	2	30	3	70	100

IV YEAR- II SEMESTER (ELECTIVE-VI)

S.No.	Course Code	Name of the Course	Instructions (hrs) per week			Evaluation				Total Marks
			Theory / Tutorial	Practical	Credits	Internal Exam		External Exam		
						Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
1	ECT41	Radar Engineering	3	-	3	2	30	3	70	100
2	ECT42	Telecommunication Modelling & Simulation	3	-	3	2	30	3	70	100
3	CST49	Fundamentals of Computer Graphics	3	-	3	2	30	3	70	100
4	CST41	Multimedia Systems	3	-	3	2	30	3	70	100

