ECE K-23 Scheme

SCHOOL OF ENGINEERING & TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM
SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ECE)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
I YEAR – I SEMESTER (2023-24) (Amended) with effect from the academic year 2025 '26



THEORY

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation							Total Marks
								Internal (30 Marks)					External (70 Marks)		
								Assignment	Test						
									Objective		Subjective				
				L	T	P		Max. Marks	Duration (Mins)	Marks	Duration (Mins)	Marks	Duration	Max. Marks	
1	BS	23BST01	Linear Algebra & Calculus	3	0	0	3	5	20	10	90	15	3	70	100
2	BS	23BST04	Chemistry	3	0	0	3	5	20	10	90	15	3	70	100
3	ES	23CMT01	Basic Civil & Mechanical Engineering	3	0	0	3	5	20	10	90	15	3	70	100
4	ES	23EET01	Basic Electrical and Electronics Engineering	3	0	0	3	5	20	10	90	15	3	70	100

PRACTICALS

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (30 Marks)			External (70 Marks)		
								Continuous	Test				
				L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
5	BS	23BSP04	Chemistry Lab	0	0	2	1	15	2	15	3	70	100
6	ES	23MED01	Engineering Graphics	1	0	4	3	15	2	15	3	70	100
7	ES	23MEP01	Engineering Workshop	0	0	3	1.5	15	2	15	3	70	100
8	ES	23EEP01	Electrical and Electronics Engineering Workshop	0	0	3	1.5	15	2	15	3	70	100
9	BS	23NSP01	NSS/Community Service	0	0	1	0.5	100	-	-	-	-	100
Total				**13**	**0**	**13**	**19.5**						**900**

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I YEAR – II SEMESTER (2023-24) (Amended)

THEORY

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation							Total Marks
								Internal (30 Marks)					External (70 Marks)		
									Objective		Subjective				
				L	T	P		Max. Marks	Duration (Mins)	Marks	Duration (Mins)	Marks	Duration	Max. Marks	
1	BS	23BST02	Differential Equations & Vector Calculus	3	0	0	3	5	20	10	90	15	3	70	100
2	BS	23BST03	Engineering Physics	3	0	0	3	5	20	10	90	15	3	70	100
3	BS	23BST05	Communicative English	2	0	0	2	5	20	10	90	15	3	70	100
4	ES	23CST01	Introduction to Programming	3	0	0	3	5	20	10	90	15	3	70	100
5	PC	23EET03	Network Analysis	3	0	0	3	5	20	10	90	15	3	70	100

PRACTICALS

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (30 Marks)			External (70 Marks)		
								Continuous	Test				
				L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
6	BS	23BSP03	Engineering Physics Lab	0	0	2	1	15	2	15	3	70	100
7	BS	23BSP05	Communicative English Lab	0	0	2	1	15	2	15	3	70	100
8	ES	23CSP01	Computer Programming Lab	0	0	3	1.5	15	2	15	3	70	100
9	ES	23CSP02	IT Workshop	0	0	2	1	15	2	15	3	70	100
10	PC	23EEP03	Network Analysis Aand Simulation Laboratory	0	0	3	1.5	15	2	15	3	70	100
11	BS	23PEP01	Health, Wellness & Yoga and Sports	0	0	1	0.5	100	-	-	-	-	100
			Total	**14**	**0**	**13**	**20.5**						**1100**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
II YEAR – I SEMESTER (2024-25)

THEORY

S.No	Code	Category	Course Title	Hours per Week			Credits	Evaluation					External (70 Marks)		Total Marks
								Internal (30 Marks)							
								Assignment	Test						
									Objective		Subjective				
				L	T	P		Max. Marks	Duration (Mins)	Marks	Duration (Mins)	Marks	Duration	Max. Marks	
1	23BST08	BS	Probability and Complex Variables	3	0	0	3	5	20	10	90	15	3	70	100
2	23HMT02	HM	Managerial Economics and Financial Analysis	2	0	0	2	5	20	10	90	15	3	70	100
3	23ECT01	ES	Electronic Devices and Circuits	3	0	0	3	5	20	10	90	15	3	70	100
4	23ECT02	PCC	Digital Circuits Design	3	0	0	3	5	20	10	90	15	3	70	100
5	23ECT03	PCC	Signals, Systems and Stochastic Processes	3	0	0	3	5	20	10	90	15	3	70	100
6	23HMT03	Man-HM	Environmental Science	2	0	0		Satisfactory/Unsatisfactory							-

PRACTICALS

S.No	Code	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (30 Marks)			External (70 Marks)		
								Continuous	Test				
				L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
7	23ECP01	PCC	Electronic Devices and Circuits Lab	0	0	3	1.5	15	2	15	3	70	100
8	23ECP02	PCC	Digital Circuits & Signal Simulation Lab	0	0	3	1.5	15	2	15	3	70	100
9	23CSS01	SEC	Python Programming	0	1	2	2	15	2	15	3	70	100
Total				16	1	8	19						800

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II YEAR – II SEMESTER (2024-25)

THEORY

S.No	Code	Course Code	Course Title	Hours per Week			Credits	Evaluation							Total Marks
								Internal (30 Marks)					External (70 Marks)		
									Objective		Subjective				
				L	T	P		Max. Marks	Duration (Mins)	Marks	Duration (Mins)	Marks	Duration	Max. Marks	
1	23HMT01	HMT	Universal Human Values – Understanding Harmony and Ethical Human Conduct	2	1	0	3	5	20	10	90	15	3	70	100
2	23EET37	ES	Linear Control Systems	3	0	0	3	5	20	10	90	15	3	70	100
3	23ECT04	PCC	EM Waves and Transmission Lines	3	0	0	3	5	20	10	90	15	3	70	100
4	23ECT05	PCC	Electronic Circuits Analysis	3	0	0	3	5	20	10	90	15	3	70	100
5	23ECT06	PCC	Analog and Digital Communications	3	0	0	3	5	20	10	90	15	3	70	100

PRACTICALS

S.No	Code	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (30 Marks)			External (70 Marks)		
								Continuous	Test				
				L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
6	23ECP03	PCC	Electronic Circuits Analysis Lab	0	0	3	1.5	15	2	15	3	70	100
7	23ECP04	PCC	Analog and Digital Communications Lab	0	0	3	1.5	15	2	15	3	70	100
8	23BSS01	SEC	Soft Skills	0	1	2	2	15	2	15	3	70	100
9	23HMP01	HM	Design Thinking and Innovation	1	0	2	2	15	2	15	3	70	100
Total				**15**	**2**	**10**	**22**						**900**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
III YEAR – I SEMESTER (R23 - REGULATIONS)

THEORY

S.No	Course Code	Category	Course Title	Hours per Week			Credits	Evaluation							Total Marks
								Internal (30 Marks)					External (70 Marks)		
								Assignment	Test						
									Objective		Subjective				
				L	T	P		Max. Marks	Duration (Mins)	Marks	Duration (Mins)	Marks	Duration (Hours)	Max. Marks	
1	23ECT07	PC	Analog and Digital IC Applications	3	0	0	3	5	20	10	90	15	3	70	100
2	23ECT08	PC	Antennas and Wave Propagation	3	0	0	3	5	20	10	90	15	3	70	100
3	23ECT09	PC	Microprocessors and Microcontrollers	3	0	0	3	5	20	10	90	15	3	70	100
4	23CST38 23ECT14 23ECT15 23ECM01	PE-I	Computer Architecture & Organization Information Theory and Coding Detection and Estimation Theory Moocs-1	3	0	0	3	5	20	10	90	15	3	70	100
5		OE-I	OE - I (Other than Music - Vocal)	3	0	0	3	5	20	10	90	15	3	70	100
	23MUP01		Music - Vocal	2	0	2		30 Marks					70 Marks		

PRACTICALS

S.No	Course Code	Category	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (30 Marks)			External (70 Marks)		
								Continuous	Test				
								Max. Marks	Duration (Hours)	Max. Marks	Duration (Hours)	Max. Marks	
6	23ECP05	PC	Analog & Digital IC Applications Lab	0	0	3	1.5	15	2	15	3	70	100
7	23ECP06	PC	Microprocessors and Microcontrollers Lab	0	0	3	1.5	15	2	15	3	70	100
8	23ECS01	SEC	PCB Design and Prototype Development	0	1	2	2	15	2	15	3	70	100
9	23BSP07	ES	TinkeringLab	0	0	2	1	15	2	15	3	70	100
10	23ECI01	IT-1	Internship - I*	0	0	0	2					50	50
Total				14/15	2	10 12	23						**950**

*** Society oriented (Community Service Project) Summer Internship at the end of II - Year for a minimum duration of 8 Weeks.**

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III YEAR – II SEMESTER (R23 - REGULATIONS)

THEORY

S.No	Course Code	Category	Course Title	Hours per Week			Credits	Evaluation							Total Marks
								Internal (30 Marks)					External (70 Marks)		
								Assignment	Test						
									Objective		Subjective				
				L	T	P		Max. Marks	Duration (Mins)	Marks	Duration (Mins)	Marks	Duration (Hours)	Max. Marks	
1	23ECT10	PC	Digital Signal Processing	2	1	0	3	5	20	10	90	15	3	70	100
2	23ECT11	PC	Microwave and Optical Communications	3	0	0	3	5	20	10	90	15	3	70	100
3	23ECT12	PC	VLSI Design	3	0	0	3	5	20	10	90	15	3	70	100
4	23ECT16 23ECT17 23MET33 23ECM02	PE-II	Electronic Measurements and Instrumentation Embedded Systems Introduction to Industrial Robotics MOOCS	3	0	0	3	5	20	10	90	15	3	70	100
5	23ECM03	PE-III	MOOCS (Mandatory)	3	0	0	3								100
6	23BST13	Audit Course	Technical Paper Writing & IPR	2	0	0	-	30 Marks for Tests and 70 Marks for Attendance					Satisfactory / Unsatisfactory		
7		OE-II	OE - II (Other than Dance)	3	0	0	3	5	20	10	90	15	3	70	100
	23MUP02		Dance: Bharathanatyam	2	0	2		30 Marks					70 Marks		

PRACTICALS

S.No	Course Code	Category	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (30 Marks)			External (70 Marks)		
								Continuous	Test				
				L	T	P		Max. Marks	Duration (Hours)	Max. Marks	Duration (Hours)	Max. Marks	
8	23ECP07	PC	Microwave and Optical Communications Lab	0	0	3	1.5	15	2	15	3	70	100
9	23ECP08	PC	VLSI Design Lab	0	0	3	1.5	15	2	15	3	70	100
10	23ECS02	SEC	AI and Signal Processing	0	1	2	2	15	2	15	3	70	100
Total				18/19	2	8 10	23						900

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IV YEAR – I SEMESTER (R23 - REGULATIONS)

THEORY

S.No	Course Code	Category	Course Title	Hours per Week			Credits	Evaluation							Total Marks
								Internal (30 Marks)					External (70 Marks)		
								Assignment	Test						
									Objective		Subjective				
				L	T	P		Max. Marks	Duration (Mins)	Marks	Duration (Mins)	Marks	Duration (Hours)	Max. Marks	
1	23ECT13	PC	Cellular & Mobile Communication	3	0	0	3	5	20	10	90	15	3	70	100
2	23HMT04	HSMC	Human Resource Management	2	0	0	2	5	20	10	90	15	3	70	100
3	23ECT18 23ECT19 23ECT20 23ECT21 23ECM04	PE-IV	Low Power VLSI Design Radar Engineering Digital Image Processing 5G Communications Mooc Course	3	0	0	3	5	20	10	90	15	3	70	100
4	23ECT22 23ECT23 23ECT24 23ECT25 23ECM05	PE-V	Sensors and Actuators Wireless Sensor Networks Speech Processing Internet of Things & Applications Mooc Course	3	0	0	3	5	20	10	90	15	3	70	100
5	-	OE-III	-	3	0	0	3	5	20	10	90	15	3	70	100
6	-	OE-IV	-	3	0	0	3	5	20	10	90	15	3	70	100
7	23BST15	Audit Course	Gender Sensitization	2	0	0	-	30 Marks for Tests and 70 Marks for Attendance					Satisfactory / Unsatisfactory		

PRACTICALS

S.No	Course Code	Category	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (30 Marks)			External (70 Marks)		
								Continuous	Test				
				L	T	P		Max. Marks	Duration (Hours)	Max. Marks	Duration (Hours)	Max. Marks	
8	23ECS04	SEC	Advanced Embedded System	0	1	2	2	15	2	15	3	70	100
9	23ECI02	Internship	Internship - II*	-	-	-	2					50	50
Total				19	1	2	21						750

*** Industry Internship during summer at the end of III - Year for a minimum duration of 8 Weeks**

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IV YEAR – II SEMESTER (R23 - REGULATIONS)

PRACTICALS													
S.No	Code	Category	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (60 Marks)			External (140 Marks)		
				L	T	P		Max. Marks	Duration	Max. Marks	Duration	Max.	
1	23ECJ01	Project	Internship-III and Project Work	-	-	24	12			60		140	200
Total						**24**	**12**						**200**

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