

**SCHOOL OF ENGINEERING AND TECHNOLOGY  
SRI PADMAVATI MAHILA VISVAIDYALAYAM  
SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (ECE)  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
II YEAR – I SEMESTER (2024-25)**

<b>THEORY</b>															
<b>S.No</b>	<b>Code</b>	<b>Category</b>	<b>Course Title</b>	<b>Hours per Week</b>			<b>Credits</b>	<b>Evaluation</b>							<b>Total Marks</b>
								<b>Internal (30 Marks)</b>				<b>External (70 Marks)</b>			
				<b>Assignment</b>	<b>Test</b>			<b>Duration</b>	<b>Max. Marks</b>	<b>Duration</b>	<b>Max. Marks</b>				
					<b>Objective</b>	<b>Subjective</b>									
<b>L</b>	<b>T</b>	<b>P</b>	<b>Max. Marks</b>	<b>Duration (Mins)</b>	<b>Marks</b>	<b>Duration (Mins)</b>	<b>Marks</b>	<b>Duration</b>	<b>Max. Marks</b>						
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 / Organizational Behavior / Business Environment	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							-
<b>PRACTICALS</b>															
<b>S.No</b>	<b>Code</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Hours per Week</b>			<b>Credits</b>	<b>Evaluation</b>					<b>Total Marks</b>		
								<b>Internal (30 Marks)</b>			<b>External (70 Marks)</b>				
				<b>Continuous</b>	<b>Test</b>			<b>Duration</b>	<b>Max. Marks</b>	<b>Duration</b>	<b>Max. Marks</b>				
					<b>Max. Marks</b>	<b>Max.</b>									
<b>L</b>	<b>T</b>	<b>P</b>	<b>Max. Marks</b>	<b>Duration</b>	<b>Max.</b>	<b>Duration</b>	<b>Max.</b>								
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		
<b>Total</b>				<b>16</b>	<b>1</b>	<b>8</b>	<b>19</b>								<b>800</b>

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

<b>THEORY</b>															
S.No	Code	Course Code	Course Title	Hours per Week			Credits	Evaluation							Total Marks
								Internal (30 Marks)				External (70 Marks)			
				Max. Marks	Objective			Subjective		Duration	Max. Marks				
					Duration (Mins)	Marks		Duration (Mins)	Marks						
L	T	P													
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	23EET38	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
<b>PRACTICALS</b>															
S.No	Code	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks		
								Internal (30 Marks)			External (70 Marks)				
				Max. Marks	Test			Max.	Duration	Max.					
					Duration	Marks									
L	T	P													
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		
<b>Total</b>				<b>15</b>	<b>2</b>	<b>10</b>	<b>22</b>						<b>900</b>		

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

**THEORY**

S.No	Code	Category	Course Title	Hours per Week			Credits	Evaluation						Total Marks	
				Internal (30 Marks)						External (70 Marks)					
				Assignment	Test				Duration	Max. Marks					
					Objective			Subjective							
Max. Marks	Duration (Mins)	Marks	Duration (Mins)	Marks	Duration	Max. Marks									
1	23ECT07	PCC	Analog and Digital IC Applications	3	0	0	3	5	20	10	90	15	3	70	100
2	23ECT08	PCC	Antennas and Wave Propagation	3	0	0	3	5	20	10	90	15	3	70	100
3	23ECT09	PCC	Microprocessors and Microcontrollers	3	0	0	3	5	20	10	90	15	3	70	100
4	23CST33 23ECT14 23ECT15 23CST17 23ECM01	PE-I	Computer Architecture & Organization Information Theory and Coding Detection and Estimation Theory Artificial Intelligence Moocs-1	3	0	0	3	5	20	10	90	15	3	70	100
5		OE-I		3	0	0	3	5	20	10	90	15	3	70	100

**PRACTICALS**

S.No	Code	Category	Course Title	Hours per Week			Credits	Evaluation					Total Marks
				Internal (30 Marks)				External (70 Marks)					
				Continuous	Test			Duration	Max. Marks				
6	23ECP05	PCC	Analog & Digital IC Applications Lab	0	0	3	1.5	15	2	15	3	70	100
7	23ECP06	PCC	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	Evaluation of Summer Internship	0	0	0	2					50	50
<b>Total</b>				<b>15</b>	<b>1</b>	<b>10</b>	<b>23</b>						<b>950</b>

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

**THEORY**

S.No	Code	Category	Course Title	Hours per Week			Credits	Evaluation							Total Marks
								Internal (30 Marks)				External (70 Marks)			
				Max. Marks	Objective			Subjective		Duration	Max. Marks				
					Duration (Mins)	Marks		Duration (Mins)	Marks						
L	T	P													
1	23ECT10	PCC	Digital Signal Processing	3	0	0	3	5	20	10	90	15	3	70	100
2	23ECT11	PCC	Microwave and Optical Communications	3	0	0	3	5	20	10	90	15	3	70	100
3	23ECT12	PCC	VLSI Design	3	0	0	3	5	20	10	90	15	3	70	100
4	23ECT16 23ECT17 23CST09 20MET49 20ECM02	PE-II	Electronic Measurements and Instrumentation Cellular and Mobile Communications Machine Learning Introduction to 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	-	Satisfactory/Unsatisfactory							
7		OE-II		3	0	0	3	5	20	10	90	15	3	70	100

**PRACTICALS**

S.No	Code	Category	Course Title	Hours per Week			Credits	Evaluation					Total Marks
								Internal (30 Marks)			External (70 Marks)		
				Max. Marks	Test			Duration	Max.	Duration	Max.		
					Duration	Max.							
L	T	P											
8	23ECP07	PCC	Microwave and Optical Communications Lab	0	0	3	1.5	15	2	15	3	70	100
9	23ECP08	PCC	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
<b>Total</b>				<b>20</b>	<b>1</b>	<b>8</b>	<b>23</b>						<b>900</b>

**\*Mandatory Industry Internship of 08 weeks duration during summer vacation**

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**IV YEAR – I SEMESTER (2024-25)**

**THEORY**

S.No	Code	Category	Course Title	Hours per Week			Credits	Evaluation						Total Marks	
				Internal (30 Marks)						External (70 Marks)					
				Assignment Max. Marks	Test			Objective		Subjective		Duration	Max. Marks		
					Duration (Mins)	Marks		Duration (Mins)	Marks						
L	T	P													
1	23ECT13	PCC	Cellular & Mobile Communication	3	0	0	3	5	20	10	90	15	3	70	100
2	23BST14	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 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

**PRACTICALS**

S.No	Code	Category	Course Title	Hours per Week			Credits	Evaluation					Total Marks	
				Internal (30 Marks)						External (70 Marks)				
				Continuous Max. Marks	Test			Max.		Duration	Max.			
					Duration	Marks		Duration	Marks					
L	T	P												
6	23MES04	SEC	Industrial IoT & Automation	0	1	2	2	15	2	15	3	70	100	
7	23BST18	Audit Course	Gender Sensitization	2	0	0	-	Satisfactory/Unsatisfactory						
8	23ECI02	Internship	Evaluation of Industry Internship	-	-	-	2					50	50	
<b>Total</b>				<b>19</b>	<b>1</b>	<b>2</b>	<b>21</b>							<b>750</b>

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**IV YEAR – II SEMESTER (2024-25)**

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