

**SCHOOL OF ENGINEERING AND TECHNOLOGY**  
**SRI PADMAVATHI MAHILA VISVAVISYALAYAM**  
**(SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (EEE))**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**I YEAR – I SEMESTER (2019-20)**

<b>THEORY</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30Marks)		External (70 Marks)			
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19BST04	Engineering Mathematics-I	3	1	0	4	5	2	25	3	70	100
2	19BST02	Engineering Chemistry	3	1	0	4	5	2	25	3	70	100
3	19CST01	Programming for Problem Solving	2	1	0	3	5	2	25	3	70	100
4	19ECT01	Basic Electronics Engineering	2	1	0	3	5	2	25	3	70	100
5	19BST13	Essence of Indian Knowledge Tradition	3	0	0	0	Satisfactory/Not Satisfactory					
<b>PRACTICALS</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)		External (60 Marks)			
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
6	19BSP02	Engineering Chemistry Lab	0	0	2	1	20	2	20	3	60	100
7	19CSP01	Programming for Problem Solving Lab	0	0	4	2	20	2	20	3	60	100
8	19MEP01	Engineering Graphics Lab	0	0	6	3	20	2	20	3	60	100
9	19ECP01	Basic Electronics Engineering Lab	0	0	2	1	20	2	20	3	60	100
<b>Total</b>			<b>13</b>	<b>4</b>	<b>14</b>	<b>21</b>						<b>800</b>

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**I YEAR – II SEMESTER (2019-20)**

<b>THEORY</b>													
<b>S.No</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 (30Marks)</b>		<b>External (70 Marks)</b>				
							<b>Assignment</b>	<b>Test</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>		
1	19BST05	Engineering Mathematics-II	3	1	0	4	5	2	25	3	70	100	
2	19BST03	Engineering Physics	3	1	0	4	5	2	25	3	70	100	
3	19BST01	Functional English	3	0	0	3	5	2	25	3	70	100	
4	19BST08	Economics And Accountancy	3	1	0	4	5	2	25	3	70	100	
<b>PRACTICALS</b>													
<b>S.No</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 (40 Marks)</b>		<b>External (60 Marks)</b>				
							<b>Continuous</b>	<b>Test</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>		
5	19BSP03	Engineering Physics Lab	0	0	2	1	20	2	20	3	60	100	
6	19BSP01	Communicative English Lab	0	0	2	1	20	2	20	3	60	100	
7	19MEP03	Workshop and Manufacturing Practices Lab	0	0	4	2	20	2	20	3	60	100	
<b>Total</b>			<b>12</b>	<b>3</b>	<b>8</b>	<b>19</b>						<b>700</b>	

**II YEAR – I SEMESTER (2019-20)**

<b>THEORY</b>												
<b>S.No</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 (30Marks)</b>			<b>External (70 Marks)</b>		
			<b>Assignment</b>	<b>Test</b>			<b>External (70 Marks)</b>					
			<b>Max. Marks</b>	<b>Duration</b>	<b>Max.</b>		<b>Duration</b>	<b>Max.</b>				
1	19BST06	Engineering Mathematics-III	3	1	0	4	5	2	25	3	70	100
2	19MET02	Engineering Mechanics	3	1	0	4	5	2	25	3	70	100
3	19ECT04	Digital System Design	2	1	0	3	5	2	25	3	70	100
4	19EET02	Circuits & Networks-I	3	1	0	4	5	2	25	3	70	100
5	19EET08	Generation Of Electric Power	3	0	0	3	5	2	25	3	70	100
6	19BST12	Environmental Studies	3	0	0	0	Satisfactory/Not Satisfactory					
<b>PRACTICALS</b>												
<b>S.No</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 (40 Marks)</b>			<b>External (60 Marks)</b>		
			<b>Continuous</b>	<b>Test</b>			<b>External (60 Marks)</b>					
			<b>Max. Marks</b>	<b>Duration</b>	<b>Max.</b>		<b>Duration</b>	<b>Max.</b>				
7	19ECP03	Digital System Design Lab	0	0	2	1	20	2	20	3	60	100
8	19EEP02	Circuits & Networks-I Lab	0	0	2	1	20	2	20	3	60	100
<b>Total</b>			<b>17</b>	<b>4</b>	<b>6</b>	<b>20</b>						<b>700</b>

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**II YEAR – II SEMESTER (2019-20)**

<b>THEORY</b>												
<b>S.No</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 (30Marks)</b>			<b>External (70 Marks)</b>		
			<b>Assignment</b>	<b>Test</b>			<b>External (70 Marks)</b>					
			<b>Max. Marks</b>	<b>Duration</b>	<b>Max.</b>		<b>Duration</b>	<b>Max.</b>				
<b>L</b>	<b>T</b>	<b>P</b>										
1	19ECT05	Signals & Systems	3	1	0	4	5	2	25	3	70	100
2	19ECT29	Electronic Circuits	2	1	0	3	5	2	25	3	70	100
3	19EET03	Circuits & Networks-II	3	1	0	4	5	2	25	3	70	100
4	19EET05	Electromagnetic Fields	2	1	0	3	5	2	25	3	70	100
5	19EET06	Power Systems-I	2	1	0	3	5	2	25	3	70	100
6	19EET04	Electrical Machines-I	3	1	0	4	5	2	25	3	70	100
<b>PRACTICALS</b>												
<b>S.No</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 (40 Marks)</b>			<b>External (60 Marks)</b>		
			<b>Continuous</b>	<b>Test</b>			<b>External (60 Marks)</b>					
			<b>Max. Marks</b>	<b>Duration</b>	<b>Max.</b>		<b>Duration</b>	<b>Max.</b>				
<b>L</b>	<b>T</b>	<b>P</b>										
7	19ECP11	Electronic Circuits Lab	0	0	2	1	20	2	20	3	60	100
8	19EEP04	Circuits & Networks-II Lab	0	0	2	1	20	2	20	3	60	100
9	19EEP03	Electrical Machines-I Lab	0	0	2	1	20	2	20	3	60	100
<b>Total</b>			<b>15</b>	<b>6</b>	<b>6</b>	<b>24</b>						<b>900</b>

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**III YEAR – I SEMESTER (2019-20)**

**THEORY**

S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30Marks)			External (70 Marks)		
			Assignment	Test			Duration	Max.				
			Max. Marks	Duration	Max.				Duration	Max.		
L	T	P	Max. Marks	Duration	Max.	Duration	Max.					
1	19ECT09	MicroProcessors & MicroControllers	2	1	0	3	5	2	25	3	70	100
2	19EET07	Electrical Machines-II	3	1	0	4	5	2	25	3	70	100
3	19EET09	Power Systems-II	2	1	0	3	5	2	25	3	70	100
4	19EET10	Control Systems	2	1	0	3	5	2	25	3	70	100
5	19BST09	Industrial Management	3	0	0	3	5	2	25	3	70	100
6		Elective-I	2	1	0	3	5	2	25	3	70	100
<b>PRACTICALS</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
			Continuous	Test			Duration	Max.				
			Max. Marks	Duration	Max.				Duration	Max.		
L	T	P	Max. Marks	Duration	Max.	Duration	Max.					
7	19ECP05	MicroProcessors & MicroControllers	0	0	2	1	20	2	20	3	60	100
8	19EEP06	Control Systems Lab	0	0	2	1	20	2	20	3	60	100
9	19EEP05	Electrical Machines-II Lab	0	0	2	1	20	2	20	3	60	100
<b>Total</b>			<b>15</b>	<b>4</b>	<b>6</b>	<b>22</b>						<b>900</b>

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**III YEAR – II SEMESTER (2019-20)**

<b>THEORY</b>						
S.No	Course	Course Title	Hours per	Credits	Evaluation	Total

	Code		Week				Internal (30Marks)			External (70 Marks)		Marks
			L	T	P		Assignment	Test		Duration	Max.	
							Max. Marks	Duration	Max.			
1	19BST10	Entrepreneurship &Project Management	3	0	0	3	5	2	25	3	70	100
2	19EET11	Power Electronics	3	1	0	4	5	2	25	3	70	100
3	19EET12	Electrical &Electronics Measurements	2	1	0	3	5	2	25	3	70	100
4		Elective-II	2	1	0	3	5	2	25	3	70	100
5		Open Elective-I	3	0	0	3	5	2	25	3	70	100
6	19BST11	Constitution Of India	3	0	0	0	Satisfactory/Not Satisfactory					

**PRACTICALS**

S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
			Internal (40 Marks)				External (60 Marks)					
			Continuous	Test			Duration	Max.	Duration	Max.		
			Max. Marks	Duration	Max.						Duration	
6	19EEP07	Electrical &Electronics Measurements Lab	0	0	2	1	20	2	20	3	60	100
7	19EEP08	Power Electronics Lab	0	0	2	1	20	2	20	3	60	100
<b>Total</b>			<b>16</b>	<b>3</b>	<b>4</b>	<b>18</b>						<b>700</b>

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**IV YEAR – I SEMESTER (2019-20)**

<b>THEORY</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
			Internal (30Marks)				External (70 Marks)					
			Assignment	Test			Duration	Max.	Duration	Max.		

			L	T	P		Max. Marks	Duration	Max.	Duration	Max.		
1	19EET13	Power System Analysis	3	1	0	4	5	2	25	3	70	100	
2		Elective-III	0	0	0	3	0	0	0	0	0	100	
3		Elective-IV(MOOCs)	2	1	0	3	5	2	25	3	70	100	
4		Open Elective-II	3	0	0	3	5	2	25	3	70	100	
<b>PRACTICALS</b>													
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks	
							Internal (40 Marks)		External (60 Marks)				
							Continuous	Test					
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.		
1	19EEP09	Power systems simulation lab	0	0	2	1	20	2	20	3	60	100	
2	19EEI01	Internship	0	0	0	2	100	0	0	0	0	100	
3	19EES01	Technical Seminar	0	0	2	1	100	0	0	0	0	100	
4	19EEJ01	Project Work Phase-I	0	0	4	2	100	0	0	0	0	100	
<b>Total</b>			<b>10</b>	<b>3</b>	<b>8</b>	<b>19</b>						<b>800</b>	

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**IV YEAR – II SEMESTER (2019-20)**

<b>THEORY</b>													
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks	
							Internal (30Marks)		External (70 Marks)				
							Assignment	Test					
			L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks		

1		Elective-V	2	1	0	3	5	2	25	3	70	100
2		Elective-VI	2	1	0	3	5	2	25	3	70	100
3		Open Elective-III	3	0	0	3	5	2	25	3	70	100
<b>PRACTICALS</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
			Internal (40 Marks)					External (60 Marks)				
			Continuous Evaluation		Test							
			L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
4	19EEJ02	Project Work Phase-II	0	0	16	8	40	0	0	0	60	100
<b>Total</b>			<b>7</b>	<b>2</b>	<b>16</b>	<b>17</b>						<b>400</b>

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**LIST OF ELECTIVES (2019-20)**

**ELECTIVE - I**

S.No	Course Code	Course Title
1	19ECT30	ElectroMagnetic Waves
2	19ECT31	Analog & Digital IC Applications

3	19EET14	Renewable Energy Sources
4	19EET15	Electrical Machine Design

**ELECTIVE - III**



<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>
1	19EEM01	MOOCS

#### **ELECTIVE – II**

<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>
1	19ECT13	Digital Signal Processing
2	19EET16	Switch gear & protection
3	19EET17	Modern Control Theory
4	19EET18	Special Machines

#### **ELECTIVE - IV**

<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>
1	19EET19	Power Quality & FACTS
2	19EET20	High Voltage Engineering
3	19EET21	Neural Network & Fuzzy Logic
4	19EET22	Industrial Electrical Systems

#### **ELECTIVE - V**

<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>
1	19EET23	Electrical Distribution Systems
2	19EET24	Electrical Drives
3	19EET25	Control System Design
4	19EET26	PLCs & applications

#### **ELECTIVE – VI**

<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>
1	19EET27	Smart Electrical Grids

2	19EET28	HVDC Transmission Systems
3	19EET29	Digital Control Systems
4	19EET30	Utilization of Electrical Energy

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**LIST OF OPEN ELECTIVES (2019-20)**

**OPEN ELECTIVE - I**

<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>
1	19EET31	Electrical Engineering Materials
2	19EET32	Energy Auditing & Demand Side Management

**OPEN ELECTIVE - II**

<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>
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1	19EET33	Artificial Neural Networks
2	19EET34	Energy Storage Systems

**OPEN ELECTIVE - III**

S.No	Course Code	Course Title
1	19EET35	Conventional & Non Conventional Energy Sources
2	19EET36	Design Costing of Electrical System

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**LIST OF OPEN ELECTIVES OFFERED BY OTHER DEPARTMENTS TO EEE (2019-20)**

**OPEN ELECTIVE – I**

**OPEN ELECTIVE – II**

S. No	Course Code	Course Title	Offering Department
1	19ECT33	Pulse and Digital Circuits	ECE
2	19ECT34	Electronic Measurements	
3	19CST33	Basics of Data Structures	CSE
4	19CST34	Introduction to C++ Programming	
5	19CSP13	Advanced Programming Lab	
6	19CST35	Fundamentals of Computer Organization	

7	19MEP13	Engineering Projects in Community Services (Project based)	ME
8	19MET36	Time and Motion Study	
9	19MET37	Nano Technology	
10	19MUP01	Music- Vocal	BS&H
11	19MUP02	Dance -Bharatanatyam	
12	19MUP03	Dance -Kuchipudi	

S. No	Course Code	Course Title	Offering Department
1	19ECT35	Communication Systems	ECE
2	19ECT36	Microprocessors & Interfacing	
3	19ECT37	Digital Design using VHDL	
4	19CST36	Basics of Computer Networks	CSE
5	19CST37	Introduction to programming with Python	
6	19CST38	Introduction to Database Management Systems	
7	19CST39	Introduction to Cloud Computing	
8	19MET39	Power Plant Engineering	
9	19MET40	Plant Layout and Design	BS&H
10	19BST14	LSRW Skills	

### OPEN ELECTIVE – III

<b>S. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Offering Department</b>
1	19ECT38	Microcontrollers & Interfacing	ECE
2	19ECT39	Basics of Embedded Systems	
3	19ECT40	Digital Image Processing	
4	19CST40	Introduction to Cyber Security	CSE
5	19CST41	Introduction to Artificial Intelligence	
6	19CST42	Introduction to Java Programming	
7	19CST43	Fundamentals of Internet of Things	
8	19MET41	Total Quality Management	ME
9	19MET42	Production Planning & Control	
10	19MET43	Supply Chain Management	
11	19BST15	Data Analytics For Decision Making	BS&H