

**R-19**  
**PG SCHEME**  
**ECE**

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

<b>THEORY</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
1	19MECT01	CMOS VLSI Design	3	0	0	3	5	2	25	3	70	100
2	19MECT02	Advanced Digital Signal Processing and Algorithms	3	0	0	3	5	2	25	3	70	100
3		Program Elective-I	3	0	0	3	5	2	25	3	70	100
4		Program Elective-II	3	0	0	3	5	2	25	3	70	100
5	19MBST01	Research Methodology and IPR	2	0	0	2	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	
6	19MECP01	VLSI Lab	0	0	4	2	20	2	20	3	60	100
7	19MECP02	Signal Processing Lab	0	0	4	2	20	2	20	3	60	100
<b>Total</b>			<b>14</b>	<b>0</b>	<b>8</b>	<b>18</b>						<b>700</b>

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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 (30 Marks)</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 (Hrs)</b>	<b>Max. Marks</b>	<b>Duration (Hrs)</b>	<b>Max. Marks</b>			
1	19MECT09	FPGA Architecture and Applications	3	0	0	3	5	2	25	3	70	100		
2	19MECT10	Wireless Communications and Networks	3	0	0	3	5	2	25	3	70	100		
3		Program Elective-III	3	0	0	3	5	2	25	3	70	100		
4		Program Elective-IV	3	0	0	3	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 Evaluation</b>	<b>Test</b>						
			<b>L</b>	<b>T</b>	<b>P</b>		<b>Max. Marks</b>	<b>Duration (Hrs)</b>	<b>Max. Marks</b>	<b>Duration (Hrs)</b>	<b>Max. Marks</b>			
5	19MECP03	Wireless Communications Lab	0	0	4	2	20	2	20	3	60	100		
6	19MECP04	FPGA Lab	0	0	4	2	20	2	20	3	60	100		
7	19MECS01	Term Paper cum Seminar	0	0	4	2	40	0	0	0	60	100		
<b>Total</b>			<b>12</b>	<b>0</b>	<b>12</b>	<b>18</b>						<b>700</b>		

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**II YEAR – I SEMESTER (2019-20)**

<b>THEORY</b>												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration (Hrs)	Max. Marks	Duration (Hrs)	Max. Marks	
1		Program Elective-V	3	0	0	3	5	2	25	3	70	100
2		Open Elective	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	
3	19MECV01	Comprehensive Viva	0	0	0	2	40	0	0	0	60	100
4	19MECJ01	Project Work Phase-I	0	0	20	10	*100	0	0	0	0	100
<b>Total</b>			6	0	20	18						<b>400</b>

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II YEAR – II SEMESTER (2019-20)**

S.No	Course code	Course title	Credits	Internal Evaluation		External Evaluation		Total Marks
				Guide	Internal Committee	External Dissertation	Viva	
1	19MECJ02	Project Work Phase-II	16	20	20	30	30	100

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**LIST OF ELECTIVES (2019-20)**

**ELECTIVE – I**

S. No.	Course Code	Course Title
1	19MECT03	Embedded Systems
2	19MCST07	Wireless Sensor Networks
3	19MECT05	Advanced Digital Systems Design

**ELECTIVE – III**

S.No.	Course Code	Course Title
1	19MECT11	Low Power VLSI Design
2	19MECT12	Design for Testability
3	19MECT13	System on-chip Design

**ELECTIVE – II**

S. No.	Course Code	Course Title
1	19MECT06	Optical Communications and Networks
2	19MECT07	Coding Theory and Techniques
3	19MECT08	Detection and Estimation Theory

**ELECTIVE – IV**

S. No.	Course Code	Course Title
1	19MECT04	Digital Image And Video Processing
2	19MECT15	MIMO Systems
3	19MECT16	Adaptive Signal Processing

**ELECTIVE – V**

S. No.	Course Code	Course Title
1	19MECT17	Audio & Speech Processing
2	19MEET17	Neural Networks & Fuzzy Logic
3	19MCST10	Internet of Things

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

<b>S. No</b>	<b>Course Code</b>	<b>Course Title</b>
1	19MECT22	Advanced Embedded System

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

<b>S. No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Offering Department</b>
1	19MMET22	Advanced Operations Research	MECH
2	19MBST03	Business Analytics	BS&H
3	19MCST18	Information Retrieval System	CSE
4	19MBST02	English for Research Writing	BS&H
5	19MEET19	Solar Energy Utilisation	EEE

Ms. M. Krupa Swaroopa Rani  
Coordinator (ECE)

Dr. P. Satyanarayana  
BoS Chairman (I/C) (ECE)

Dr. R.V. Satyanarayana  
BoS Chairman (ECE)

Dr. A. Ramakrishna Rao  
Director, SE&T