

**13.Courses of Study and Scheme of Assessment  
ME WIRELESS COMMUNICATION**

**(2021 REGULATIONS)  
(Minimum No. of credits to be earned : 70\*)**

Course Code	Course Title	Hours/Week			Credits	Maximum Marks			CAT
		Lecture	Tutorial	Practical		CA	FE	Total	
<b>III SEMESTER</b>									
21LW_	Professional Elective – IV	3	0	0	3	50	50	100	PE
21LW_	Open Elective	3	0	0	3	50	50	100	OE
21LW71	Project Work I	0	0	12	6	50	50	100	EEC
<b>Total 18 hrs</b>		<b>6</b>	<b>0</b>	<b>12</b>	<b>12</b>	<b>150</b>	<b>150</b>	<b>300</b>	
<b>IV SEMESTER</b>									
21LW81	Project Work II	0	0	24	12	50	50	100	EEC
<b>Total 24 hrs</b>		<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>	<b>50</b>	<b>50</b>	<b>100</b>	

<b>PROFESSIONAL ELECTIVE THEORY COURSES (Four to be opted)</b>									
<b>Communication</b>									
21LW21	Space Time Wireless Communication	3	0	0	3	50	50	100	PE
21LW22	5G Wireless Technologies	3	0	0	3	50	50	100	PE
21LW23	Software Defined Radio Architecture	3	0	0	3	50	50	100	PE
21LW24	Free Space Optics	3	0	0	3	50	50	100	PE
21LW25	Cooperative Communication	3	0	0	3	50	50	100	PE
21LW26	Long Term Evolution	3	0	0	3	50	50	100	PE
21LW27	Error Control and Coding Techniques	3	0	0	3	50	50	100	PE
<b>Radio Frequency</b>									
21LW28	RF Integrated Circuit Design	3	0	0	3	50	50	100	PE
21LW29	RF MEMS	3	0	0	3	50	50	100	PE
21LW30	EMC Testing and Measurements	3	0	0	3	50	50	100	PE
21LW31	Computational Electromagnetics	3	0	0	3	50	50	100	PE
21LW32	Radiating Systems	3	0	0	3	50	50	100	PE
21LW33	Wireless Technologies and Measuring Tools	3	0	0	3	50	50	100	PE
21LW34	Smart Antennas	3	0	0	3	50	50	100	PE
<b>Signal and Image Processing</b>									
21LW35	Optimal Signal Processing	3	0	0	3	50	50	100	PE
21LW36	Multimedia Compression Techniques	3	0	0	3	50	50	100	PE
21LW37	Image Processing	3	0	0	3	50	50	100	PE
<b>VLSI</b>									
21LW38	System on Chip Design	3	0	0	3	50	50	100	PE
21LW39	Communication Algorithms on FPGA	3	0	0	3	50	50	100	PE
21LW40	VLSI for Wireless Communication	3	0	0	3	50	50	100	PE
<b>Networks</b>									
21LW41	Wireless Sensor Networks	3	0	0	3	50	50	100	PE

21LW42	Wireless Security	3	0	0	3	50	50	100	PE
21LW43	Vehicular Systems and Networks	3	0	0	3	50	50	100	PE
21LW44	Optical Networks	3	0	0	3	50	50	100	PE
<b>Programming Languages</b>									
21LW45	Machine Learning and Deep Learning	3	0	0	3	50	50	100	PE
21LW46	Data Structures and Algorithms	3	0	0	3	50	50	100	PE
21LW47	Python Programming	3	0	0	3	50	50	100	PE
<b>Open Electives(One to be opted)</b>									
21LW91	Smart Cities	3	0	0	3	50	50	100	OE
21LW92	Radiation Hazards	3	0	0	3	50	50	100	OE

\* Indicated is the minimum number of credits to be earned by a student.

**CAT – Category; PC – Professional Core; PE - Professional Elective; RMC - Research Methodology and IPR; EEC – Employability Enhancement Course; MC - Mandatory Course; Grade – Completed / Not completed; OE – Open elective**