

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

(2018 REGULATIONS)
(**Minimum No. of credits to be earned: 74)

Course Code	Course Title	Hours/Week			Credits	Maximum Marks			CAT
		Lecture	Tutorial	Practical		CA	FE	Total	
I SEMESTER									
18LW01	Applied Mathematics	2	2	0	3	50	50	100	PC
18LW02	Advanced Digital Communications	2	2	0	3	50	50	100	PC
18LW03	Wireless Networks	3	0	0	3	50	50	100	PC
18LW04	Wireless Communication System Design	3	2	0	4	50	50	100	PC
18LW05	Communication Algorithms on FPGA	3	2	0	4	50	50	100	PC
18LW51	Wireless Networks Laboratory	0	0	4	2	50	50	100	PC
18LW81	English for Research Paper Writing	0	0	**	Grade	0	0	0	MC
Total 25 Hrs		13	8	4	19	300	300	600	
II SEMESTER									
18LW06	Radiating Systems	3	0	0	3	50	50	100	PC
18LW07	RF and Microwave Circuit Design	3	0	0	3	50	50	100	PC
18LW08	Filter Design on Digital Signal Processor	3	2	0	4	50	50	100	PC
18LW09	Embedded System Design and IoT	3	2	0	4	50	50	100	PC
18LW__	Professional Elective -1	3	0	0	3	50	50	100	PE
18LW__	Professional Elective -2	3	0	0	3	50	50	100	PE
18LW52	RF System Design using EDA Tools Laboratory	0	0	4	2	50	50	100	PC
18LW61	Industry Visit and Technical Seminar	0	0	4	2	50	50	100	EEC
18LW82	Research Methodology and IPR	0	0	**	Grade	0	0	0	MC
Total 30 Hrs		18	4	8	24	400	400	800	
III SEMESTER									
18LW__	Professional Elective - 3	3	0	0	3	50	50	100	PE
18LW__	Professional Elective - 4	3	0	0	3	50	50	100	PE
18LW__	Professional Elective - 5	3	0	0	3	50	50	100	PE
18LW__	Professional Elective - 6	3	0	0	3	50	50	100	PE
18LW53	Wireless System Design Laboratory	3	0	4	2	50	50	100	PC
18LW71	Project Work I	0	0	6	3	50	50	100	EEC
Total 25 Hrs		15	0	10	17	300	300	600	
IV SEMESTER									
18LW72	Project Work II	0	0	28	14	50	50	100	EEC
PROFESSIONAL ELECTIVE THEORY COURSES									
18LW21	Wireless Sensor Networks	2	2	0	3	50	50	100	PE
18LW22	Optical Networks	3	0	0	3	50	50	100	PE
18LW23	Wireless Security	3	0	0	3	50	50	100	PE
18LW24	Digital Signal Processor Architectures	3	0	0	3	50	50	100	PE
18LW25	Software Defined Radio Architecture	3	0	0	3	50	50	100	PE
18LW26	Wireless Multimedia Communication	3	0	0	3	50	50	100	PE
18LW27	Radar Communication	3	0	0	3	50	50	100	PE
18LW28	Space Time Wireless Communication	3	0	0	3	50	50	100	PE
18LW29	Spread Spectrum Communication	3	0	0	3	50	50	100	PE
18LW30	5G Wireless Technologies	3	0	0	3	50	50	100	PE
18LW31	Free Space Optics	3	0	0	3	50	50	100	PE
18LW32	Smart Antennas	3	0	0	3	50	50	100	PE
18LW33	Radio Frequency Integrated Circuit Design	3	0	0	3	50	50	100	PE
18LW34	Wireless Technologies and Measuring Tools	3	0	0	3	50	50	100	PE
18LW35	RF MEMS	3	0	0	3	50	50	100	PE
18LW36	Computational Electromagnetics	3	0	0	3	50	50	100	PE
18LW37	EMC Testing and Measurements	2	2	0	3	50	50	100	PE

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

**-60 hrs in I semester and 90 hrs in II semester; Grade : Pass/Fail

CAT – Category; PC – Professional Core; PE – Professional Elective; EEC – Employability Enhancement Course; MC- Mandatory Course