

13. Courses of Study and Scheme of Assessment ME – COMMUNICATION SYSTEMS

(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									
18LC01	Applied Mathematics	2	2	0	3	50	50	100	PC
18LC02	Information Theory and Coding	2	2	0	3	50	50	100	PC
18LC03	Advanced Digital Communications	3	0	0	3	50	50	100	PC
18LC04	Advanced Digital Signal Processing	3	2	0	4	50	50	100	PC
18LC05	Communication Algorithms on FPGA	3	2	0	4	50	50	100	PC
18LC51	Advanced Digital Communications Laboratory	0	0	4	2	50	50	100	PC
18LC81	English for Research Paper Writing	0	0	**	Grade	0	0	0	MC
Total		13	8	4	19	300	300	600	
II SEMESTER									
18LC06	RF Circuit Design	3	2	0	4	50	50	100	PC
18LC07	Communication Networks	3	0	0	3	50	50	100	PC
18LC08	Wireless Communication	3	0	0	3	50	50	100	PC
18LC09	Embedded System Design and IoT	3	2	0	4	50	50	100	PC
18LC__	Professional Elective - 1	3	0	0	3	50	50	100	PE
18LC__	Professional Elective - 2	3	0	0	3	50	50	100	PE
18LC52	Communication Networks Laboratory	0	0	4	2	50	50	100	PC
18LC61	Industry Visit & Technical Seminar	0	0	4	2	50	50	100	EEC
18LC82	Research Methodology and IPR	0	0	**	Grade	0	0	0	MC
Total		18	4	8	24	400	400	800	
III SEMESTER									
18LC__	Professional Elective - 3	3	0	0	3	50	50	100	PE
18LC__	Professional Elective - 4	3	0	0	3	50	50	100	PE
18LC__	Professional Elective - 5	3	0	0	3	50	50	100	PE
18LC__	Professional Elective - 6	3	0	0	3	50	50	100	PE
18LC53	Communication System Design Laboratory	0	0	4	2	50	50	100	PC
18LC71	Project Work I	0	0	6	3	50	50	100	EEC
Total		12	0	10	17	300	300	600	
IV SEMESTER									
18LC72	Project Work II	0	0	28	14	50	50	100	EEC
Total		0	0	28	14				
PROFESSIONAL ELECTIVE THEORY COURSES (Six to be opted)									
18LC21	Detection and Estimation	3	0	0	3	50	50	100	PE
18LC22	Cooperative Communications	3	0	0	3	50	50	100	PE
18LC23	Cognitive Radio Systems	3	0	0	3	50	50	100	PE
18LC24	High Performance Networks	3	0	0	3	50	50	100	PE
18LC25	Green Communication	3	0	0	3	50	50	100	PE
18LC26	Vehicular Systems and Networks	3	0	0	3	50	50	100	PE
18LC27	Communication Protocols for IoT	3	0	0	3	50	50	100	PE
18LC28	Radiating systems	3	0	0	3	50	50	100	PE
18LC29	Multirate Signal Processing	3	0	0	3	50	50	100	PE
18LC30	Adaptive Signal Processing	3	0	0	3	50	50	100	PE
18LC31	Wavelets and Subband Coding	3	0	0	3	50	50	100	PE
18LC32	Digital Image and Video Processing	3	0	0	3	50	50	100	PE
18LC33	Multimedia Compression	3	0	0	3	50	50	100	PE
18LC34	Computer Vision and Machine Learning	3	0	0	3	50	50	100	PE
18LC35	Speech Signal Processing	3	0	0	3	50	50	100	PE
18LC36	Error Control Coding	3	0	0	3	50	50	100	PE
18LC37	Evolutionary Computation	3	0	0	3	50	50	100	PE
18LC38	Data Structures and Algorithms	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: Completed/Not Completed

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