



CURRICULUM AND SYLLABUS

REGULATION 2019

Programme: M.E. Communication Systems

Structure of Curriculum

Sl.No.	Category	Credits
1	Basic Science courses (B)	4
2	Professional core courses (C)	12
3	Professional Elective courses relevant to chosen specialization/branch (E)	15
4	Project work, Practical Minor project, seminar and internship in industry or elsewhere (P)	32
5	Mandatory Courses (M)	2
Total Credits		68

*Minor variation is allowed as per need of the respective disciplines.

1. Basic Science courses (B)

Course Code	Course Name	Hours / Week			C
		L	T	P	
19PCMB101T	Applied Mathematics for Communication Engineers	3	1	0	4
Total Credits					4

T-Lecture T-Lecture+ Tutorial L-Practical, Project, J- Lecture+ project

2. Professional Core courses (C)

Course Code	Course Name	Hours / Week			C
		L	T	P	
19PCMC101T	Advanced Communication Networks	3	0	0	3
19PCMC102T	Wireless and Mobile Communication	3	0	0	3
19PCMC103T	Antennas and Radiating Systems	3	0	0	3
19PCMC104T	Advanced Digital Signal Processing	3	0	0	3
Total Credits					12

T-Lecture T-Lecture+ Tutorial L-Practical, Project, J- Lecture+ project



3. Professional Elective courses relevant to chosen specialization/branch (E)

Course Code	Course Name	Hours / Week			C
		L	T	P	
Professional Elective for I Semester					
19PCME001T	Wireless Sensor Networks	3	0	0	3
19PCME002T	Optical Networks	3	0	0	3
19PCME003T	Modern Digital Communication Techniques	3	0	0	3
19PCME004T	Cognitive Radio	3	0	0	3
19PCME005T	RF and Microwave Circuit Design	3	0	0	3
19PCME006T	DSP Architecture	3	0	0	3
19PCME007T	Communication Network Security	3	0	0	3
19PCME008T	Network Routing Algorithms	3	0	0	3
Professional Elective for II Semester					
19PCME009T	Satellite Communication and Navigation Systems	3	0	0	3
19PCME010T	Modern Internet of Things	3	0	0	3
19PCME011T	Voice and Data networks	3	0	0	3
19PCME012T	MIMO System	3	0	0	3
19PCME013T	Programmable Networks SDN NFV	3	0	0	3
Professional Elective for III Semester					
19PCME014T/ 19PVLE019T	Wireless Embedded Systems	3	0	0	3
19PCME015T	Remote Sensing	3	0	0	3
19PCME016T	PCB design Technology	3	0	0	3
19PCME017T	Communication Interfaces	3	0	0	3
Total Credits					15

T-Lecture T-Lecture+ Tutorial L-Practical, Project, J- Lecture+ project

4. Project work, minor project, seminar and internship in industry or elsewhere (P)

Course Code	Course Name	Hours / Week			C
		L	T	P	
19PCMP101L	Communication systems Laboratory I	0	0	4	2
19PCMP102L	Communication systems Laboratory II	0	0	4	2
19PCMP103L	Minor Project I	0	0	4	2
19PCMP104L	Project work Phase I	0	0	20	10
19PCMP105L	Project work Phase II	0	0	32	16
Total Credits					32

T-Lecture T-Lecture+ Tutorial L-Practical, Project, J- Lecture+ project



5. Mandatory Courses (M)

Course Code	Course Name	Hours / Week			C
		L	T	P	
19PATM101	Research Methodology and IPR	2	0	0	2
19PATM102	English for Research Paper Writing	1	0	0	0
19PATM103	Pedagogy Studies	1	0	0	0
Total Credits					2

T-Lecture

T-Lecture+ Tutorial

L-Practical, Project,

J- Lecture+ project



SEMESTER I						
Category	Course Code	Course Name	Hours / Week			C
			L	T	P	
B	19PCMB101T	Applied Mathematics for Communication Engineers	3	1	0	4
C	19PCMC101T	Advanced Communication Networks	3	0	0	3
C	19PCMC102T	Wireless and Mobile Communication	3	0	0	3
E		Professional Elective I	3	0	0	3
E		Professional Elective II	3	0	0	3
P	19PCMP101L	Communication Systems Laboratory I	0	0	4	2
M	19PATM101	Research Methodology and IPR	2	0	0	2
M	19PATM102	English for Research Paper Writing	1	0	0	0
Total Credits						20

SEMESTER II						
Category	Course Code	Course Name	Hours / Week			C
			L	T	P	
C	19PCMC103T	Antennas and Radiating Systems	3	0	0	3
C	19PCMC104T	Advanced Digital Signal Processing	3	0	0	3
E		Professional Elective III	3	0	0	3
E		Professional Elective IV	3	0	0	3
P	19PCMP102L	Communication systems Laboratory II	0	0	4	2
P	19PCMP103L	Minor Project I	0	0	4	2
M	19PATM103	Pedagogy Studies	1	0	0	0
Total Credits						16



SEMESTER III						
Category	Course Code	Course Name	Hours / Week			C
			L	T	P	
E		Professional Elective V	3	0	0	3
O		Professional Elective VI	3	0	0	3
P	19PCMP104L	Project Work Phase I	0	0	20	10
Total Credits						16

SEMESTER IV						
Category	Course Code	Course Name	Hours / Week			C
			L	T	P	
P	19PCMP105L	Project Work Phase II	0	0	32	16
Total Credits						16



Category / Semester	I	II	III	IV	Category wise Total Credits
Basic Science Course(B)	4	-	-	-	4
Professional Core(C)	6	6	-	-	12
Professional Elective(E)	6	6	6	-	15
Practical/Lab(P)	2	2	-	-	4
Project Work(P)	-	2	10	16	28
Mandatory Course(M)	2	-	-	-	2
Semester Wise Total Credits	20	16	16	16	68