

ANNEXURE - IV
PERI INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
REGULATIONS 2024
M.E COMMUNICATION SYSTEMS
SEMESTER - I

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	24CM201101	Linear Algebra, Probability and Queueing Theory	FC	3	1	0	4	4
2.	24GE201101	Research Methodology and IPR	RMC	2	0	0	2	2
3.	24CM201102	Statistical Signal Processing	PCC	3	0	0	3	3
4.	24CM201103	Modern Digital Communication Systems	PCC	3	0	0	3	3
5.	24CM201104	Advanced Wireless Communication	PCC	3	0	0	3	3
6.	24CM201105	Radiating Systems	PCC	3	0	0	3	3
7.	24GS210103	Audit Course – I*	AC	2	0	0	2	0
PRACTICALS								
8.	24CM203106	Digital Communication Systems Laboratory	PCC	0	0	3	3	1.5
9.	24CM203107	Advanced Digital Signal Processing Laboratory	PCC	0	0	3	3	1.5
TOTAL				19	1	6	26	21

SEMESTER - II

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	24CM201201	RF System Design	PCC	3	0	0	3	3
2.	24CM201203	Advanced Wireless Networks	PCC	3	0	0	3	3
3.	24CM205203	Professional Elective I (High Speed Switching & Networking)	PEC	3	0	0	3	3
4.	24CM205207	Professional Elective II (Cognitive Radio Networks)	PEC	3	0	0	3	3
5.	24GS210202	Audit Course – II*	AC	2	0	0	2	0
LAB INTEGRATED COURSE								
6.	24CM202202	Microwave Integrated Circuits	PCC	3	0	2	5	4
7.	24CM202204	Machine Learning	PCC	3	0	2	5	4
PRACTICALS								
8.	24CM203208	Wireless Communication Laboratory	PCC	0	0	4	4	2
9.	24GE207202	Term Paper Writing and seminar	EEC	0	0	2	2	1
TOTAL				20	0	10	30	23

SEMESTER - III

S.NO	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	24CM201301	Optical Communication and Networking	PCC	3	0	0	3	3
2.		Professional Elective III	PEC	3	0	0	3	3
3.		Open Elective	OEC	3	0	0	3	3
LAB INTEGRATED COURSE								
4.		Professional Elective IV	PEC	3	0	2	5	4
PRACTICALS								
5.	24CM209301	Project Work I	EEC	0	0	12	12	6
TOTAL				12	0	14	26	19

SEMESTER - IV

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
PRACTICALS								
1.	24CM209401	Project Work II	EEC	0	0	24	24	12
TOTAL				0	0	24	24	12

Total No.of.Credits: 75

PROFESSIONAL ELECTIVES**SEMESTER II, ELECTIVE I**

S. NO.	COURSE CODE	COURSE TITLE	CATE- GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	24CM205201	Electromagnetic Interference and Compatibility	PEC	3	0	0	3	3
2.	24CM205202	Advanced Satellite Communication and Navigation Systems	PEC	3	0	0	3	3
3.	24CM205203	High Speed Switching and Networking	PEC	3	0	0	3	3
4.	24CM205204	Signal Integrity for High Speed Design	PEC	3	0	0	3	3
5.	24CM205205	Wavelets and Subband Coding	PEC	3	0	0	3	3

SEMESTER II, ELECTIVE II

S. NO.	COURSE CODE	COURSE TITLE	CATE- GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	24CM205206	Multimedia Compression Techniques	PEC	3	0	0	3	3
2.	24CM205207	Cognitive Radio Networks	PEC	3	0	0	3	3
3.	24CM205208	Speech Processing	PEC	3	0	0	3	3
4.	24CM205209	mm Wave Communication	PEC	3	0	0	3	3
5.	24CM205210	Analog and Mixed Signal VLSI Design	PEC	3	0	0	3	3

SEMESTER III, ELECTIVE III

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	24CM205301	Ultra Wide Band Communications	PEC	3	0	0	3	3
2.	24CM205302	VLSI for Wireless Communication	PEC	3	0	0	3	3
3.	24CM205303	MEMS and NEMS	PEC	3	0	0	3	3
4.	24CM205304	Advanced Antenna Design	PEC	3	0	0	3	3
5.	24CM205305	Software Defined Radios	PEC	3	0	0	3	3

SEMESTER III, ELECTIVE IV

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	24CM205306	Image Processing and Video Analytics	PEC	3	0	2	5	4
2.	24CM205307	Radar Signal Processing	PEC	3	0	2	5	4
3.	24CM205308	Telecommunication System Modeling and Simulation	PEC	3	0	2	5	4
4.	24CM205309	Signal Detection and Estimation	PEC	3	0	2	5	4
5.	24CM205310	Real Time Embedded Systems	PEC	3	0	2	5	4

AUDIT COURSES (AC)

Registration for any of these courses is optional to students

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			CREDITS
				L	T	P	
1.	24GS210X01	English for Research Paper Writing	AC	2	0	0	0
2.	24GS210202	Disaster Management	AC	2	0	0	0
3.	24GS210103	Constitution of India	AC	2	0	0	0
4.	24GS210X04	□□□□□□□□□□□□□□□□	AC	2	0	0	0

X - Semester number(1/2/3/4)

LIST OF OPEN ELECTIVES FOR PG PROGRAMMES

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			CREDITS
				L	T	P	
1.	24CM206301	Integrated Water Resources Management	OE	3	0	0	3
2.	24CM206302	Water, Sanitation and Health	OE	3	0	0	3
3.	24CM206303	Principles of Sustainable Development	OE	3	0	0	3
4.	24CM206304	Environmental Impact Assessment	OE	3	0	0	3
5.	24CM206305	Blockchain Technologies	OE	3	0	0	3
6.	24CM206306	Deep Learning	OE	3	0	0	3
7.	24CM206307	Vibration and Noise Control Strategies	OE	3	0	0	3
8.	24CM206308	Energy Conservation and Management in Domestic Sectors	OE	3	0	0	3
9.	24CM206309	Additive Manufacturing	OE	3	0	0	3
10.	24CM206310	Electric Vehicle Technology	OE	3	0	0	3
11.	24CM206311	New Product Development	OE	3	0	0	3
12.	24CM206312	Sustainable Management	OE	3	0	0	3
13.	24CM206313	Micro and Small Business Management	OE	3	0	0	3
14.	24CM206314	Intellectual Property Rights	OE	3	0	0	3
15.	24CM206315	Ethical Management	OE	3	0	0	3
16.	24CM206316	IoT for Smart Systems	OE	3	0	0	3
17.	24CM206317	Machine Learning and Deep Learning	OE	3	0	0	3
18.	24CM206318	Renewable Energy Technology	OE	3	0	0	3
19.	24CM206319	Smart Grid	OE	3	0	0	3
20.	24CM206320	Security Practices	OE	3	0	0	3
21.	24CM206321	Cloud Computing Technologies	OE	3	0	0	3
22.	24CM206322	Design Thinking	OE	3	0	0	3
23.	24CM206323	Principles of Multimedia	OE	3	0	0	3
24.	24CM206324	Environmental Sustainability	OE	3	0	0	3
25.	24CM206325	Textile Reinforced Composites	OE	3	0	0	3
26.	24CM206326	Nanocomposite Materials	OE	3	0	0	3
27.	24CM206327	IPR, Biosafety and Entrepreneurship	OE	3	0	0	3