

ECE/580
9/4/24

M.Tech.—Communication Systems

SCHEME

First Semester

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
CS 101	Probability and Random Process	3	-	-	3
CS 102	Optical Communication Systems	3	-	-	3
CS 103	Wireless Communication Systems	3	-	-	3
	Department Elective-1	3	-	-	3
	Department Elective-2	3	-	-	3
CS 104	Lab I (Optical Communication Laboratory)	-	-	2	1
CS 105	Lab II (Wireless Communication System)	-	-	2	1
CS 106	Seminar-1	-	-	2	1
CS 107	Minor Project-1 (Self Learning)	-	-	-	2
Total Hours: 21		15	-	6	20
Total Credits: 20					

Second Semester

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
CS 201	Detection & Estimation Theory	3	-	-	3
CS 202	Terahertz Communication	3	-	-	3
	Department Elective-3	3	-	-	3
	Department Elective-4	3	-	-	3
	Open Elective	3	-	-	3
CS 203	Lab III (Signal Processing System Laboratory)	-	-	2	1
CS 204	Lab IV (5G Communication Laboratory)	-	-	2	1
CS 205	Seminar-II	-	-	2	1
CS 206	Minor Project-II (Self Learning)	-	-	2	2
Total Hours: 23		15	-	8	20
Cumulative Credits: 40					

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(Signature)

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Third Semester

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
CS 301	Dissertation Phase -I	-	-	40	20
Total Hours: 40		Cumulative Credits: 60			Total Semester Credits 20

Fourth Semester

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
CS 401	Dissertation Phase -II	-	-	40	20
Total Hours: 40		Cumulative Credits: 80			Total Semester Credits 20

List of Department Electives

List of Electives Departmental			
CS 501	RF Communication	CS 511	Data Compression and Cryptography
CS 502	Wireless Technologies: 5G and beyond	CS 512	Information Theory and Coding
CS 503	Microwave Communication	CS 513	Medical Image Processing and Analysis
CS 504	Advanced Digital Signal Processing	CS 514	Statistical Signal Processing
CS 505	Digital Image Processing	CS 515	Video Signal Processing
CS 506	Signal Theory	CS 516	Multirate Signal Processing
CS 507	Mobile Communication	CS 517	Computer Vision and Pattern Recognition
CS 508	Telecom Switching	CS 518	Research Methodology
CS 509	Satellite Communication		NPTEL/SWAYAM Course(s)
CS 510	Optical Networks		

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List of Open Electives

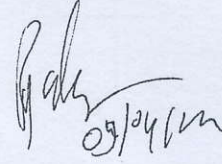
List of Open Electives	
CS 601	Optimization Techniques
CS 602	Neural Networks
CS 603	Fuzzy Logic
CS 604	Internet of Things (IoT)
CS 605	Applied Machine Learning and Deep Learning
CS 606	Computer Networks
CS 607	Cyber Physical Systems

CS 608 Telecom Transmission Systems

CS 609 SDN and Network Virtualization

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8/4/2024

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09/04/24

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