



COURSE STRUCTURE(R-21)

M.TECH. COMMUNICATION SYSTEMS

I YEAR I – SEMESTER

R-21

Course Type	Course Code	Course Title	L	T	P	Credits
Professional Core -I	21CM6111	Wireless Communications and Networks	3	0	0	3
Professional Core -II	21CM6112	Advanced Data Communications	3	0	0	3
Professional Elective -I	21CM6171	1. Cognitive Radio	3	0	0	3
	21CM6172	2. TCP/IP Internetworking				
	21CM6173	3. Detection and Estimation Theory				
Professional Elective -II	21CM6174	1. 5G Communications	3	0	0	3
	21CM6175	2. Coding Theory and Techniques				
	21CM6176	3. Spread Spectrum Communications				
Professional Core Lab-I	21CM6151	Wireless Communications and Networks Lab	0	0	4	2
Professional Core Lab-II	21CM6152	Advanced Data Communications Lab	0	0	4	2
Mandatory Course	21MC6111	Research Methodology & IPR	2	0	0	2
Audit	21AU6101	Stress Management for Yoga	2	0	0	0
Total Credits			16	0	8	18

I YEAR II – SEMESTER

R-21

Course Type	Course Code	Course Title	L	T	P	Credits
Professional Core -III	21CM6211	Advanced Communications and Networks	3	0	0	3
Professional Core -IV	21CM6212	Network Security And Cryptography	3	0	0	3
Professional Elective -III	21CM6271	1. Optical Communications and Networks	3	0	0	3
	21CM6272	2. Ad-hoc & Wireless Sensor Networks				
	21CM6273	3. Wireless MIMO Communications				
Professional Elective -IV	21CM6274	1. Machine Learning and Applications	3	0	0	3
	21CM6275	2. High Performance Networks				
	21CM6276	3. Artificial Neural Networks				
Professional Core Lab-III	21CM6251	Advanced Communications and Networks Lab	0	0	4	2
Professional Core Lab-IV	21CM6252	Network Security And Cryptography Lab	0	0	4	2
Project Work	21CM6291	Mini project with Seminar	0	0	4	2
Audit	21AU6201	English for Research Paper Writing	2	0	0	0
Total Credits			14	0	12	18

**VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)****DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING****II YEAR I – SEMESTER****R-21**

Course Type	Course Code	Course Title	L	T	P/D	Credits
Professional Elective -V	21CM7171	1. Voice and Data Network	3	0	0	3
	21CM7172	2. IOT and Its Application				
	21CM7173	3. Deep Learning				
Open Elective	Open Elective	--	3	0	0	3
Project Work	21CM7181	Dissertation Work Review - I	0	0	12	6
		Total Credits	6	0	12	12

II YEAR II – SEMESTER**R-21**

Course Type	Course Code	Course Title	L	T	P	Credits
Project Work	21CM7281	Dissertation Work Review — II	0	0	12	6
Project Work	21CM7282	Dissertation Viva-Voce	0	0	28	14
		Total Credits	--	--	40	20