M.Tech in Electronics & Communication Engineering (Specialization- Communication Engineering)

SEMESTER WISE COURSE ALLOCATION

First Semester Syllabus

Sl No.	Type	Subject Code	Topic	L	Т	Р	Credit Points
1	CEC101		Advanced Communication Networks	3	0	0	3
2	CEC102		Wireless and Mobile Communication	3	0	0	3
3	Prog. Specific Elective		Suggestive Choice Based Subject I	3	0	0	3
4	Prog. Specific Elective		Suggestive Choice Based Subject II	3	0	0	3
5	Lab		Advanced Communication Networks Lab	0	0	4	2
6	Lab		Wireless and Mobile Communication Lab	0	0	4	2
7			Research Methodology and IPR	2	0	0	2
8	Aud I		Audit Course I	2	0	0	0
			Total	16	0	8	18

Suggestive Choice Based Subjects

Sl No.	Type	Subject Code	Topic	L	Т	Р	Credit Points
1	CED103		Wireless Sensor Networks	3	0	0	3
2	CED104		Optical Networks	3	0	0	3
3	CED105		Statistical Information Processing	3	0	0	3
4	CED106		Cognitive Radio	3	0	0	3
5	CED107		RF and Microwave Circuit Design	3	0	0	3
6	CED108		DSP Architecture	3	0	0	3
7	Aud I		Audit Course I: English for Research Paper Writing	2	0	0	0
8	Aud I		Audit Course I: Disaster Management	2	0	0	0
9	Aud I		Audit Course I: Sanskrit for Technical Knowledge	2	0	0	0
10	Aud I		Audit Course I: Value Education	2	0	0	0



Second Semester Syllabus

Type	Subject Code	Topic	L	Т	P	Credit Points
CEC201		Antennas and Radiating Systems	3	0	0	3
CEC202		Advanced Digital Signal Processing	3	0	0	3
Prog. Specific Elective		Suggestive Choice Based Subject III	3	0	0	3
Prog. Specific Elective		Suggestive Choice Based Subject IV	3	0	0	3
Lab 3		Antennas and Radiating Systems lab	0	0	4	2
Lab 4		Advanced Digital Signal Processing Lab	0	0	4	2
		Mini Project	0	0	4	2
Aud 2		Audit course 2	2	0	0	0
		Total	14	0	12	18
	CEC201 CEC202 Prog. Specific Elective Prog. Specific Elective Lab 3 Lab 4	Code CEC201 CEC202 Prog. Specific Elective Prog. Specific Elective Lab 3 Lab 4	CEC201 Antennas and Radiating Systems CEC202 Advanced Digital Signal Processing Prog. Specific Suggestive Choice Based Subject III Elective Prog. Specific Suggestive Choice Based Subject IV Elective Lab 3 Antennas and Radiating Systems lab Lab 4 Advanced Digital Signal Processing Lab Mini Project Aud 2 Audit course 2	CEC201 Antennas and Radiating Systems 3 CEC202 Advanced Digital Signal Processing 3 Prog. Specific Suggestive Choice Based Subject III 3 Elective Prog. Specific Suggestive Choice Based Subject IV 3 Elective Lab 3 Antennas and Radiating Systems lab 0 Lab 4 Advanced Digital Signal Processing Lab 0 Mini Project 0 Aud 2 Audit course 2 2	Code CEC201 Antennas and Radiating Systems 3 0 CEC202 Advanced Digital Signal Processing 3 0 Prog. Specific Suggestive Choice Based Subject III 3 0 Elective Prog. Specific Suggestive Choice Based Subject IV 3 0 Elective Lab 3 Antennas and Radiating Systems lab 0 0 Lab 4 Advanced Digital Signal Processing Lab 0 0 Mini Project 0 0 Aud 2 Audit course 2 2 0	Code CEC201 Antennas and Radiating Systems 3 0 0 CEC202 Advanced Digital Signal Processing 3 0 0 Prog. Specific Suggestive Choice Based Subject III 3 0 0 Elective Prog. Specific Suggestive Choice Based Subject IV 3 0 0 Elective Lab 3 Antennas and Radiating Systems lab 0 0 4 Lab 4 Advanced Digital Signal Processing Lab 0 0 4 Mini Project 0 0 4 Aud 2 Audit course 2 2 0 0

Suggestive Choice Based Subjects

SI No.	Type	Subject Code	Topic	L	Т	Р	Credit Points
1	CED201		Satellite Communication	3	0	0	3
2	CED203		Internet of Things	3	0	0	3
3	CED202		Voice and data networks	3	0	0	3
4	CED205		Markov Chain and Queuing System	3	0	0	3
5	CED204		MIMO System	3	0	0	3
6	CED206		Programmable Networks - SDN, NFV	3	0	0	3
7	Aud 2		Constitution of India	2	0	0	0
8	Aud 2		Pedagogy Studies	2	0	0	0
9	Aud 2		Stress Management by Yoga	2	0	0	0
10	Aud 2		Personality Development through Life Enlightenment Skills	2	0	0	0
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12							



			and Essential and State an				
SI No.	Type	Subject Code	Topic	L	Т	P	Credit Points
13							
			Third Semester Syllabus				
SI No.	Туре	Subject Code	Торіс	L	Т	Р	Credit Points
1	Prog. Specific Elective		Suggestive Choice Based Subject V	3	0	0	3
2	Open Elective		Open Elective	3	0	0	3
3	CED39	1	Dissertation Phase - I	0	0	20	10
			Total	06	0	20	16
			Suggestive Choice Based Subje	ects			
SI No.	Type	Subject Code	Topic	L	Т	Р	Credit Points
1	CED301		High Performance Networks	3	0	0	3
2	CED302		Pattern Recognition and Machine learning	3	0	0	3
3	CED303		Remote Sensing	3	0	0	3
			Open Elective Subjects				
SI No.	Туре	Subject Code	Topic	L	т	Р	Credit Points
1	CEO301		Business Analytics	3	0	0	3
2	CEO302		Industrial Safety	3	0	0	3
3	CEO303		Operations Research	3	0	0	3
4	CEO304		Cost Management of Engineering Projects	3	0	0	3
5	CEO305		Composite Materials	3	0	0	3
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Waste to Energy

CEO306

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M.Tech in Electronics & Communication Engineering (Specialization- Communication Engineering)

Fourth Semester Syllabus

SI No.	Type	Subject Code		Topic	L	Т	Р	Credit Points
1	CED491			Dissertation Phase - II	-	-	32	16
			Total		-	-	32	16