

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

**SEMESTER WISE COURSE ALLOCATION**

**First Semester Syllabus**

Sl No.	Type	Subject Code	Topic	L	T	P	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	T	P	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

Sl No.	Type	Subject Code	Topic	L	T	P	Credit Points
1		CEC201	Antennas and Radiating Systems	3	0	0	3
2		CEC202	Advanced Digital Signal Processing	3	0	0	3
3	Prog. Specific Elective		Suggestive Choice Based Subject III	3	0	0	3
4	Prog. Specific Elective		Suggestive Choice Based Subject IV	3	0	0	3
5	Lab 3		Antennas and Radiating Systems lab	0	0	4	2
6	Lab 4		Advanced Digital Signal Processing Lab	0	0	4	2
7			Mini Project	0	0	4	2
8	Aud 2		Audit course 2	2	0	0	0
Total				14	0	12	18

## Suggestive Choice Based Subjects

Sl No.	Type	Subject Code	Topic	L	T	P	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
11							
12							



Sl No.	Type	Subject Code	Topic	L	T	P	Credit Points
13							

### Third Semester Syllabus

Sl No.	Type	Subject Code	Topic	L	T	P	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		CED391	Dissertation Phase - I	0	0	20	10
Total				06	0	20	16

### Suggestive Choice Based Subjects

Sl No.	Type	Subject Code	Topic	L	T	P	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

Sl No.	Type	Subject Code	Topic	L	T	P	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
6		CEO306	Waste to Energy	3	0	0	3



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**Fourth Semester Syllabus**

Sl No.	Type	Subject Code	Topic	L	T	P	Credit Points
1	CED491		Dissertation Phase - II	-	-	32	16
		Total		-	-	32	16