

M.Tech. ECE (CS) Programme Structure

(Academic Session 2017-18 onwards)

FIRST SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M11EC118	Advanced Digital Signal Processing	3	-	-	3	3
2.	17M11EC119	Advanced Wireless and Mobile Communication	3	-	-	3	3
3.		Elective – I	3	-	-	3	3
4.		Elective – II	3	-	-	3	3
5.		Elective – III	3	-	-	3	3
6.	17M17EC128	Project Based Learning - I				1	2
7.	17M15EC113	ECE Design and Simulation Lab – 1	-	-	6	6	3
		TOTAL				22	20

Typical list of some Electives –

1. **Technical Writing and Communication**
2. 17M12EC123 Information and Coding Theory
3. 17M22EC112 Basic Embedded System Design
4. 17M22EC113 HDL Based Digital Design
5. 17M12EC124 Reliability Engineering
6. 17M12EC125 Detection and Estimation Theory
7. 17M12EC126 Advanced Telecommunication Networks

SECOND SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M11EC121	Statistical Signal Processing	3		-	3	3
2.	17M21EC114	Advanced Embedded System	3		-	3	3
3.		Elective – IV	3		-	3	3
4.		Elective – V	3		-	3	3
5.		Elective – VI	3		-	3	3
6.	17M17EC129	Project Based Learning - II				1	2
7.	17M15EC114	ECE Design and Simulation Lab	-		-	6	3
		TOTAL				22	20

Typical list of some Electives –

1. 17M22EC120 Microelectronics & MEMS Technology
2. 17M22EC116 DSP Architecture
3. 17M22EC117 Digital System Testing
4. 17M12EC127 Advanced Optical Communication
5. 17M12EC128 Software Defined Radio and Cognitive Radio Networks
6. 17M22EC115 Advanced Communication Systems
7. 17M12EC129 Selected Topics in Communication
8. 17M12EC130 Advanced wireless Networks

THIRD SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M17EC218	Seminar & Term Paper 'OR' Earn credits by transfer ex. MOOCs, Course Work at another Institute, Supervised Study					4
2.	17M17EC230	Project Based Learning - III					4
3.	17M17EC219/ 17M17EC220/ 17M17EC221	Dissertation /Industrial Project / Entrepreneurial Project					4
		TOTAL					12

FOURTH SEMESTER

SNo	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M17EC222 / 17M17EC223 / 17M17EC224	Dissertation /Industrial Project/ Entrepreneurial Project					18
		TOTAL					18

TOTAL CREDITS : 70