12.05.18

M.Tech ECE (CS) Programme w.e.f. 2018-19 Batch

FIRST SEMESTER

Sl. No.	Course Code	Title	Contact Hours				Credits
			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.	18M11GE111	Research Methodology and Intellectual Property Rights	2			2	2
7.	17M15EC113	ECE Design and Simulation Lab – 1	-		6	6	3
		TOTAL				23	20

SECOND SEMESTER

Sl. No.	Course Code	Title	Contact Hours				Credits
			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.		Audit-I	2	-	-	2	Qualifying
6.	17M11EC120	Project Based Learning - I				4	2
7.	17M15EC114	ECE Design and Simulation Lab -2	-	-	6	6	3
		TOTAL				24	17

THIRD SEMESTER

Sl. No.	Course Code	Title	Contact Hours				Credits
			L	T	P	Total	
		Open Electives	3			3	3
1.	17M17EC218	Seminar & Term Paper **OR** Earn credits by transfer eg. MOOCs, Course Work at another Institute, Supervised Study				4	4
2	17M15EC114	Project Based Learning - II				8	4
3.	17M17EC219/ 17M17EC220/ 17M17EC221	Dissertation /Industrial Project / Entrepreneurial Project				8	4
		Audit-II	2			2	Qualifying
		TOTAL				25	15

FOURTH SEMESTER

Sl. No.		Title	Contact Hours				Credits
			L	T	P	Total	
1.	17M17EC222/ 17M17EC223/ 17M17EC224	Dissertation /Industrial Project/ Entrepreneurial Project				32	16
		TOTAL				32	16

TOTAL CREDITS:68

Courses for Audit-I and II:

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through life enlightenment skills

Subjects for Open Electives:

1. Business Analytics
2. Industrial Safety
3. Operations Research
4. Cost Management of Engineering Projects
5. Composite Materials
6. Waste to Energy

Electives

1. Detection and Estimation theory
2. Digital System Testing
3. VLSI Physical Design
4. DSP Architecture
5. Basic Embedded System Design
6. HDL Based Digital Design
7. Advanced Optical Communication Systems
8. ASIC Verification using System Verilog
9. VLSI Physical Design
10. Digital System Testing
11. Machine Learning and Image Processing
12. Estimation over Distributed Networks
13. Selected Topics in Communication
14. Software Defined Radio and Cognitive Radio Networks
15. DSP Architecture
16. Advanced Wireless Networks
17. Advanced Optical Communications
18. Statistical Signal Processing
19. Analogue Integrated Circuit Design