

M. Tech. ECE (MET) Course Structure

(Academic Session 2017-18 onwards)

FIRST SEMESTER (M1)

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M21EC111	Microelectronic Devices Technology and Design Interface	3	-	-	3	3
2.	17M21EC112	Digital Integrated Circuit Design	3	-	-	3	3
3.		M Tech-1 (Elective)	3	-	-	3	3
4.		M Tech-2 (Elective)	3	-	-	3	3
5.		M Tech-3 (Elective)	3	-	-	3	3
6.	17M27EC125	Project Based Learning - I				1	2
7.	17M25EC111	VLSI Design and Simulation Lab-1	-	-	6	6	3
		TOTAL				22	20

Typical list of some Elective subjects

1. Advanced Programming and Data Structures(by CS/IT)
2. 17M11EC118 Advanced Digital Signal Processing
3. Advanced Mathematics(by Maths)
4. Technical Communication and Soft Skills(by HSS)
5. 17M22EC112 Basic Embedded System Design
6. 17M22EC113 HDL Based Digital Design
7. 17M22EC114 High Level Synthesis on FPGAs

SECOND SEMESTER (M2)

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M21EC114	Advanced Embedded System	3	-	-	3	3
2.	17M21EC115	Analogue Integrated Circuit Design	3	-	-	3	3
3.		M Tech -4(Elective)	3	-	-	3	3
4.		M Tech -5(Elective)	3	-	-	3	3
5.		M Tech -6 (Elective)	3	-	-	3	3
6.	17M27EC126	Project Based Learning - II				1	2
7.	17M25EC112	VLSI Design and Simulation Lab-2	-	-	6	6	3
		TOTAL				22	20

Typical list of some Elective subjects

1. 17M22EC115 Advanced Communication System
2. Advanced Operating Systems
3. 17M22EC116 DSP Architecture
4. 17M22EC117 Digital System Testing
5. 17M22EC118 VLSI Physical Design
6. 17M22EC119 Digital Image Processing
7. 17M22EC120 Microelectronics & MEMS Technology
8. 17M22EC121 RF Microelectronics
9. 17M22EC122 Low-Power VLSI Design Techniques

THIRD SEMESTER (M3)

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M27EC211	Seminar & Term Paper 'OR' Earn credits by transfer ex. MOOCs, Course Work at another Institute, Supervised Study					4
2.	17M27EC227	Project Based Learning - III					4
3.	17M27EC212/ 17M27EC213/ 17M27EC214	Dissertation /Industrial Project / Entrepreneurial Project					4
		TOTAL					12

FOURTH SEMESTER (M4)

Sr.No	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	17M27EC215/ 17M27EC216/ 17M27EC217	Dissertation /Industrial Project/ Entrepreneurial Project					18
		TOTAL					18

Total Credit : 70