

CURRICULUM

M.TECH FIRST SEMESTER

Sl. No.	Course No.	Subject
1	MEC VE 101	Semiconductor Devices – Physics & Technology
2	MEC VE 102	Advanced Digital System Design
3	MEC VE 103	CMOS VLSI Design
4	MEC VE 104	Embedded System Design
5	MEC VE 105	Elective – I
6	MEC VE 106	Elective – II

Elective – I (MEC VE 105)		Elective – II (MEC VE 106)	
MEC VE 105 - 1	ASIC Design	MEC VE 106 - 1	Processor architecture & Parallel processing
MEC VE 105 - 2	High Speed Digital Design	MEC VE 106 - 2	Modeling and Simulation of Electronic System
MEC VE 105 - 3	Low Power VLSI Design	MEC VE 106 - 3	System Design Using ARM
MEC VE 105 - 4	Semiconductor memories	MEC VE 106 - 4	Embedded Networks & Controllers

M.TECH SECOND SEMESTER

Sl. No.	Course No.	Subject
1	MEC VE 201	Analysis and Design of Analog Integrated Circuits
2	MEC VE 202	Advanced Embedded System Design
3	MEC VE 203	VLSI System Design
4	MEC VE 204	Real Time Operating Systems
5	MEC VE 205	Elective – III
6	MEC VE 206	Elective – IV

Elective – III (MEC VE 205)		Elective – IV (MEC VE 206)	
MEC VE 205 - 1	DSP System Design	MEC VE 206 - 1	Analog & Mixed VLSI circuits
MEC VE 205 - 2	MEMS & Micro system technology	MEC VE 206 - 2	Testing of VLSI
MEC VE 205 - 3	VLSI Signal Processing	MEC VE 206 - 3	CAD for VLSI
MEC VE 205 - 4	Hardware/Software Co Design	MEC VE 206 - 4	Reconfigurable computing

M.TECH THIRD SEMESTER

Sl. No.	Course No.	Subject
1	MEC VE 301	Industrial Training or Industrial Training and Mini Project
2	MEC VE 302	Master's Thesis Phase - I

M.TECH FOURTH SEMESTER

Sl. No.	Course No.	Subject
1	MEC VE 401	Master's Thesis
2	MEC VE 402	Master's Comprehensive Viva