

EC M.Tech Curriculum						
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
<b>Semester-I</b>						
EC501	Core Course-I	3	0	0	3	
	<b>Embedded Systems &amp; Architectures</b>					
EC503	Core Course-II	3	0	0	3	
	<b>Digital VLSI Circuits</b>					
MA701	Core Course-III (Math course)	3	0	0	3	
	<b>Advanced Engineering Mathematics</b>					
EC5XX	Elective Course-I	3	0	0	3	
EC5XX	Elective Course-II	3	0	0	3	
EC553	Core course Lab	0	0	2	1	
	<b>Digital VLSI Circuits Lab</b>					
EC5XX	Elective course Lab	0	0	2	1	
	<b>Elective Course lab</b>					
EC555	Computing Lab <b>Programming Lab</b>	0	0	2	1	
EC505	Seminar & Technical report writing	0	0	2	1	
		15	0	8		
		23			19	
<b>List of Elective Courses for 1st Semester</b>						
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
EC511	Physics of Semiconductor	3	0	0	3	
EC513	VLSI Signal Processing	3	0	0	3	
EC515	Mixed Signal Design	3	0	0	3	
EC517	Device Fabrication & characterization Technology	3	0	0	3	
EC519	CAD for VLSI design	3	0	0	3	
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
<b>Semester-II</b>						
EC502	Core Course-IV	3	0	0	3	
	<b>Analog System Design</b>					
EC504	Core Course-V	3	0	0	3	
	<b>Digital Arithmetic Circuits</b>					
EC5XX	Elective Course -III	3	0	0	3	
EC5XX	Elective Course -IV	3	0	0	3	
EC55X	Core course Lab	0	0	2	1	
	<b>Core Course lab</b>					
EC5XX	Elective course Lab	0	0	2	1	
	<b>Elective Course lab-I</b>					

EC556	Computing Lab <b>Design and simulation Lab</b>	0	0	2	1	
EC506	Seminar & Technical report writing	0	0	2	1	
EC508	Review work for project	0	0	4	2	
		12	0	12		
		24			18	
Non Credit Compulsory Course: Internship/Mini Project						
<b>List of Elective Courses for 2nd Semester</b>						
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
EC510	Memory Technologies & Testing	3	0	0	3	
EC512	Nanoelectronics	3	0	0	3	
EC514	Introduction to MEMS and Microsystems	3	0	0	3	
EC516	VLSI Physical Design Automation	3	0	0	3	
EC518	Low Power VLSI Design	3	0	0	3	
EC520	RF-IC Design	3	0	0	3	
EC522	SoC Design	3	0	0	3	
EC524	Cloud computing & Architectures	3	0	0	3	
EC526	Real time operating systems	3	0	0	3	
EC528	Reconfigurable Computing	3	0	0	3	
EC530	VLSI Verification and Testing	3	0	0	3	
<b>Semester-III</b>						
EC603	Technical Report and presentation on mini project/internship work	0	0	4	2	
EC601	Project-I	0	0	22	11	
		0	0	26	13	
		26			13	
<b>Semester-IV</b>						
EC602	Project-II	0	0	28	14	
		0	0	28	14	
		28			14	