

4. MTech (Microelectronics & VLSI)

Semester 1		
Course No.	Course Title	Credits
EE5181	Semiconductor Device Modeling	3
EE5182	VLSI Technology	3
EE5183	Analog IC Design	3
EE5184	Introduction to VLSI Design	2
EE5185	System Design Lab*	2
SSxxxx	English Communication (Soft Skills)	1
	Total	14
Semester 2		
EE5186	Digital IC Design	2
EE5187	Digital IC Design Lab	1
EE5188	Analog IC Design Lab	1
EExxxx	Department Electives	9
SS 5901	EE Industrial Lecture (Soft Skills)	1
	Total	14
Semester 3		
EE6901	MTech Thesis Stage-1	12
	Total	12
Semester 4		
EE6902	MTech Thesis Stage-2	12
	Total	12
	Total Credits	52

List of Electives

EE6120	Nanoelectronics: Principles & Devices	3
EE6150	Nanophotonics and Metamaterials	3
EE5199	Introduction to MEMS	2

EE7117	More than Moore Electronics	2
EE6170	Mesoscopic Device Electronics	3
EE5155	Semiconductor Optoelectronics	2
EE5152	Fundamental of RF Microelectronics	1
EE5153	Design of CMOS RFIC	1
EE5154	Implementation of RFIC CMOS modules	1

Summary:

Course Type	Credits
Department Electives	9
Department Core	13
Soft skills	2
Thesis	24
Labs	4
Total	52