

MTech (Microelectronics & VLSI): 2 Year (August 2025 Onwards)			
Sem I			
Course No.	Course Title	Credits	Remarks
EE5110	Semiconductor Devices and Modeling	3	EE5181 changed to existing EE5110
EE5182	VLSI Technology	3	
EE5183	Analog IC Design	3	
EE5193	CMOS Digital Design	3	Replacing EE5184: Intro to VLSI design
LA5180	Communication Skills: Advanced	1	Course code changed from SSxxxx
EE5996	Industrial Lecture Series	1	Course code changed from SS5901
	Total credits	14	
Sem II			
Course No.	Course Title	Credits	
EE5172	Digital IC Design	2	Course code changed from EE5186
EE5271	Digital IC Design Lab	1	Course code changed from EE5187
EE5151	Analog IC Design Lab	1	Course code changed from EE5188
EExxxx	Department Electives	10	Increased to 10 credits from 9 credits
	Total credits	14	
Sem III			
Course No.	Course Title	Credits	
EE6015	MTech Thesis Stage-1	12	Course code changed from EE6901
	Total credits	12	
Sem IV			
Course No.	Course Title	Credits	
EE6025	MTech Thesis Stage-2	12	Course code changed from EE6902
	Total credits	12	
List of elective courses (more courses can be added)			
Course No.	Course Title	Credits	
EE5192	Integrated circuits for wireless communication	3	
EE6130	Computational Nanoelectronics	3	
EE6120	Nanoelectronics: Devices and Principles	3	
EE5520	Neuromorphic devices for AI/ML	3	
EE6440	Extreme Environment Physical Electronics	3	
EE5500	CMOS image sensor	2	
Summary:			
	Course Type	Credits	
	Department Core (Theory)	14	
	Department Core (Lab)	2	
	Department Electives	10	
	Soft Skills	2	
	Thesis	24	
	Total credits	52	