

**MTech Electronics Engineering with Specilisation in AI Hardware/VLSI/Agri-Food  
Electronics/Sensors/Applied Materials/IoT and Robotics/Biomedical  
Electronics/Unconventional computing/Signal Processing Hardware**

Semester 1	C	Semester 2	C	Semester 3	C	Semester 4	C
Digital Access for Community Empowerment (DACE)	3	Mini-Project and Internship	6	Research Topics in Electronics Engineering (ARM courses/ Swayam/MOOC etc)	20	Master Thesis	30
Digital Experience Laboratory (DEL)	4	Digital Chip Design and Verification with Hardware Programming	5				
Design Thinking And Innovation (DTI)	3	Sparse signals and Compressed Sensing	5				
Non-linear Circuit Theory	5	Program Electives	-				
Electronics for Edge AI	5						
Sensors for Drones and Robotics	5						
Credits	25		25*		20		30

**MTech Electronics Engineering with Specilisation in Quantum  
Technology/Semiconductor Manufacturing Technology**

Semester 1	C	Semester 2	C	Semester 3	C	Semester 4	C
Digital Access for Community Empowerment (DACE)	3	Digital System Design using Verilog	3	Research Topics in Electronics Engineering (ARM courses/Swayam/MOOC etc)	20	Master Thesis	30
Digital Experience Laboratory (DEL)	4	CMOS Digital VLSI circuit design	3				
Design Thinking And Innovation (DTI)	3	Digital VLSI Physical Design	5				
Graphene and 2D Materials	3	Analog VLSI Physical Design	5				
Cleanroom design	3	UVM and System Verilog	3				
Semiconductor Physics	3	CMOS integrated operational amplifiers	3				
Experimental Methods	3	Device Technology Lab	3				
Modelling Materials	3						
	25		25		20		30