

MSc Applied Physics with Specialization in VLSI Design

Semester 1	C	Semester 2	C	Semester 3	C	Semester 4	C
Digital Access for Community Empowerment (DACE)	3	Verilog programming and Deep Learning lab	3	Elective 1 (ARM courses/Swayam/MOOC etc)	9	Special Topics in Electronics (ARM courses/Swayam/MOOC etc)	5
Digital Experience Laboratory (DEL)	3	CMOS Digital VLSI circuit design	5	Group Project	12	Capstone Project	20
Design Thinking and Innovation (DTI)	4	Mixed Signal VLSI physical design lab	3	Mini-project	4		
Basic electronic devices and circuits	5	AI Hardware and Embedded IoT lab	3				
Sensors and transducers for IOT	5	CMOS integrated Operational amplifiers	3				
Graphene and 2D Materials	5	Analog Circuits for Integrated Sensors	3				
Programing in Python	5	Individual project	5				
Credit	25		25		25		25