

## MSc Electronics with Specilisation in Intelligent Systems and Imaging

Course Name	Credits	Course level
Digital Access for Community Empowerment (DACE)	3	300
Digital Experience Laboratory (DEL)	3	300
Design Thinking and Innovation (DTI)	4	300
Basic electronic devices and circuits	5	100
Foundations of Signal Analysis	5	300
Electronics for Edge AI	5	300
Signal Decomposition and Recovery	3	200
Sparse Signals and Compressed Sensing	5	300
Audio & Biomedical Signal Processing Lab	3	200
Digital Filter Design Lab	3	200
Image Modeling and Compression	3	300
Image Modeling and Compression lab	3	200
Elective 1	9	500
Intelligent Sys Design - Group Project	12	300
Mini-project	4	400
Special Topics in Intelligent Systems and Imaging	5	300
Capstone Project - Intelligent Sys	20	400

## MSc Electronics with Specilisation in IoT and Robotics

Course Name	Credits	Course level
Digital Access for Community Empowerment (DACE)	3	300
Digital Experience Laboratory (DEL)	3	300
Design Thinking and Innovation (DTI)	4	300
Basic electronic devices and circuits	5	100
Sensors and transducers for IOT	5	200
Linear circuit theory	5	200
MEMS and Robotics	3	200
Sensor characterization techniques	5	300
Sensor manufacturing business	3	200
IoT standards and requirements	3	200
Operational amplifiers and IoT Applications	3	300
Analog Circuits for Integrated Sensors	3	200
Elective 1	9	500
IoT and Robotics - Group Project	12	300
Mini-project	4	400

Special Topics in IoT and Robotics	5	300
Capstone Project - robotics	20	400

## **MSc Electronics with Specilisation in VLSI Design and Artificial Intelligence**

Course Name	Credits	Course level
Digital Access for Community Empowerment (DACE)	3	300
Digital Experience Laboratory (DEL)	3	300
Design Thinking and Innovation (DTI)	4	300
Basic electronic devices and circuits	5	100
Sensors and transducers for IOT	5	200
Linear circuit theory	5	200
Verilog programing and Deep Learning lab	3	200
VLSI physical design of Neural Processors	5	300
Mixed Signal VLSI physical design lab	3	200
AI Hardware and Embedded IoT lab	3	200
CMOS integrated Operational amplifiers	3	300
Analog Circuits for Integrated Sensors	3	200
Elective 1	9	500
AI hardware - Group Project	12	300
Mini-project	4	400
Special Topics in VLSI Design and AI	5	300
Capstone Project - chip design	20	400

The MSc program in Electronics is suitable for any BSc/B.Tech/MBBS/BCA graduates, who would like to build a further career in electronics.

You will be trained on advanced technologies in electronics, with presumption of no previous knowledge in electronics. By the end of the program, you will have sufficient skills to join a highly rewarding career in electronics industry or you will be prepared to take up a research higher degree in India or abroad.

Students can avail the work while your learn, and paid internship opportunities in the university, after you secure admission to the program.