

PROGRAM DETAILS

The ECE curriculum allows specialization in VLSI systems, Networking and Communication and Artificial Intelligence and Machine Learning. The VLSI Systems domain encompasses a broad range of topics covering several aspects such as, digital and analog hardware systems, SoC design, FPGA implementations, custom fabricated VLSI circuits, verification and validation, system prototyping, design methodologies around EDA flows, verification and validation and hardware accelerator design for AI applications. Further, it also includes realization of real time embedded systems where both the hardware and the software components are treated agnostically based on end system requirements; embedded implementation of feedback control using variegated sensors.

PLACEMENT STATISTICS*

*off campus and international offers included

Full Time CTC (in Lakhs per annum)

Mtech	iMtech
Highest : 58.5	Highest : 58.5
Average : 29.1	Average : 26.4

Internship Stipend (Thousands per Month)

Mtech	iMtech
Highest : 50	Highest : 85
Average : 41.5	Average : 45

PROGRAM TIMELINE

Internship period

2 months : 15 May - 15 July'23	6 months : 15 Dec'22 - 15 June'23
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10.5 months :
1 Aug'22 - 15 June'23

Number of Students

iMtech (5 Years) : 25
Mtech (2 Years) : 25
Ms (3 Years) : 3

Available for FTE

From July 2023

SPECIALIZATIONS

VLSI Systems

COURSES

Digital CMOS VLSI Design
Analog CMOS VLSI Design
VLSI Architecture
System design with FPGA
Physical Design of ASICs
Processor Architecture
High Level Synthesis
Verification of SoC
ARM architecture
Realtime Operating Systems

Artificial Intelligence & Machine Learning

COURSES

Machine Learning
Automatic Speech Recognition
Natural Language Processing
Visual recognition
Neural Networks and
Reinforcement Learning
Artificial General Intelligence

Networking & Communication

COURSES

Wireless Access Networks
Network Security
Advanced Cyber Security
Internet of Things
Advanced Computer Networks
Mathematical Analysis of Networks

Research

Our students have worked on fundamental research problems along with our Faculty in diversified fields and have showcased their work in renowned conferences and published their work in Journals.

The students are exposed to industry standard research with hands on experience on projects in various research labs:

VLSI Design Lab and Center for Electronics and Embedded Systems (CEEMS) Lab

High Density Electronics System (HIDES) Lab

Machine Intelligence and Robotics Center (MINRO)

Surgical and Assistive Robotics (SARL) Lab

Multimodal Perception Lab

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Emails

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Electronics & Communications Engineering

2023 Graduates