



M.Tech in VLSI Design

Department of Electronics & Telecommunication Engineering

Admissions 2026 Open

MeitY Sponsored EDA Tools

AICTE GATE Stipend

2-Yr Full-Time Program

C2S Programme



Architecting the Future of Silicon · Your Gateway to the Semiconductor Industry

CORE & ELECTIVE COURSES (PCC + PEC)

PCC — Program Core Courses

- Digital IC Design
- RTL Simulation and Synthesis
- Analog IC Design
- Verification using SV and UVM
- VLSI Physical Design
- RF Circuit Design

PEC — Program Specific Electives

- Next Gen Computer Arch / ML & SoC Arch / Memory Technologies
- VLSI Testing / VLSI Arch for Signal Processing
- Hardware-Software Co-design
- Mixed Signal Circuit Design
- Advanced VLSI Design
- Nano-electronic Material & Devices
- Hardware Security
- Device Modeling

LAB FACILITIES & EQUIPMENT

EDA & Design Tools

- Cadence Design Suite (full suite)
- Synopsys Design Tools
- Siemens / Mentor Graphics Tools
- Ansys Tools
- Intel Quartus Prime Software
- Xilinx Vivado Design Suite

FPGA & SoC Development Kits

- Intel FPGA Max-10 Development Kit
- Xilinx Spartan 3E / Virtex 5 Boards
- Xilinx Kintex KC705 / Artix 7 Boards
- Zynq Zedboard (Zynq-7000 SoC)
- Pynq Boards (Python-programmable Zynq)

Process Design Kits (PDKs)

- SCL 180 nm PDK
- TSMC 7 nm / 65 nm PDKs
- GlobalFoundries 12 nm / 65 nm PDKs
- UMC 2 nm / 40 nm / 110 nm PDKs
- SKY 130nm PDK

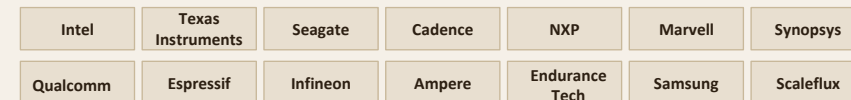
INDUSTRY CONNECTIONS & PLACEMENTS

Co-teaching by Industry Experts — Veterans from Cadence, Synopsys, Marvell, Qualcomm & Intel deliver real-world chip design modules

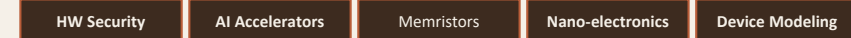
6–12 Months Industry Internships — Mandatory internship in Summer at Cadence, Intel, TI, NXP, Seagate, Marvell, Qualcomm & more
In House projects mentored by Industry

MeitY Sponsored · C2S Programme partner — advanced VLSI EDA tools and multi-node Process Design Kits

OUR RECRUITERS:



RESEARCH AREAS:



COEP CAMPUS:



Admission process starts 15th April 2026 — for more details visit www.coeptech.ac.in

Apply & Contact pgadmission@coeptech.ac.in

Deadline: 16 May 2026

AICTE GATE Stipend Available

APPLY NOW