



MOSart Labs

Art of VLSI

Online Certification in

Advanced VLSI Chip Design

Program (AVCDP)

Your Gateway to Semiconductor World

06 Months Industry Ready Program

Real chip design projects

Certification by MOSart Labs (Chip Design Company)

Internship included (Live IP/industry project)

Hands-on training with industry-standard tools

Get trained by **India's leading chip design experts**

**amul
OSRAM**

MICRON

**SAMSUNG
ELECTRONICS**



About Advanced VLSI Chip Design Program

The semiconductor industry in India is growing rapidly, creating a strong demand for skilled VLSI engineers. MOSart Labs – founded by industry leaders with 25+ years of chip design experience – offers a Certification Program designed to make ECE/EEE students job-ready for high-growth semiconductor roles.

This 10-month certification program, combined with a 4-month industry internship, gives students the exact technical, practical, and project-based exposure required in real semiconductor companies.

This program gives you a real competitive advantage by combining industry recognition, practical project work, and expert mentorship to ensure you gain job-ready skills, stand out to employers, and accelerate your career in IC design.



1.2M jobs by 2027

Massive demand for skilled IC designers worldwide.



₹6L – 18L Annually

High salary potential right from the start of your career.



₹4.2T Market by 2025

Huge opportunity in market with a 45% CAGR growth rate.



Industry-Endorsed Certification

Recognized by an active chip design company, not just a training institute.



Integrated Internship

4-month internship with real project experience and certification.



Hands-on Project Work

End-to-end chip design projects that mirror real industry challenges.



What you will Learn

Foundation Module

- CMOS basics
- KCL/KVL, resistive networks
- MOS characteristics
- SPICE simulations
- Introduction to IC design flow

Analog IC Design

- Current mirrors
- Differential amplifiers
- Op-amps
- Reference circuits
- Biasing
- Analog layout basics
- Noise, mismatch & device behavior

Digital IC Design

- Logic design
- Verilog HDL
- Combinational & sequential circuits
- RTL to GDS flow
- Timing analysis
- Standard cell design
- Digital layout concepts

Projects & Internship

- Mini design project
- Full-cycle design project
- Industry IP design internship
- Simulation - Schematic - Layout - Verification
- Technical documentation & project defense

OUR FACULTY



Rajesh Gupta

27 Years Experience
Ex- Country Head
Micron & ams OSRAM



Dr. Krishna Kanth

23 Years Experience
Ex-Director
ams OSRAM



Madhusudan Sampath

24 Years Experience
Ex-Director
Samsung India

Program Outcomes

By the end of this program, you won't just know the theory you'll have industry-grade project experience that proves your skills.

Become a Job-Ready VLSI Engineer

Step into industry roles like Analog/digital design engineers to create and invent novel semiconductor products.

Master the Complete IC Design Flow

Gain end-to-end understanding of specification, architecture, schematic, simulation, layout, and verification.

Build a Strong Industry Portfolio

Graduate with internship experience, mini & major projects, and a complete capstone defense to showcase your skills.

Industry Internship Experience

Gain real-world exposure by working on a live IP/design project that strengthens your technical skills and industry readiness.

Master Industry-Standard Tools

Get hands-on experience with real EDA tools used in top semiconductor companies.



Fee Structure

₹99,000/- + GST

Scholarship Available for Selected students

[Click Here to Enroll](#)