



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)

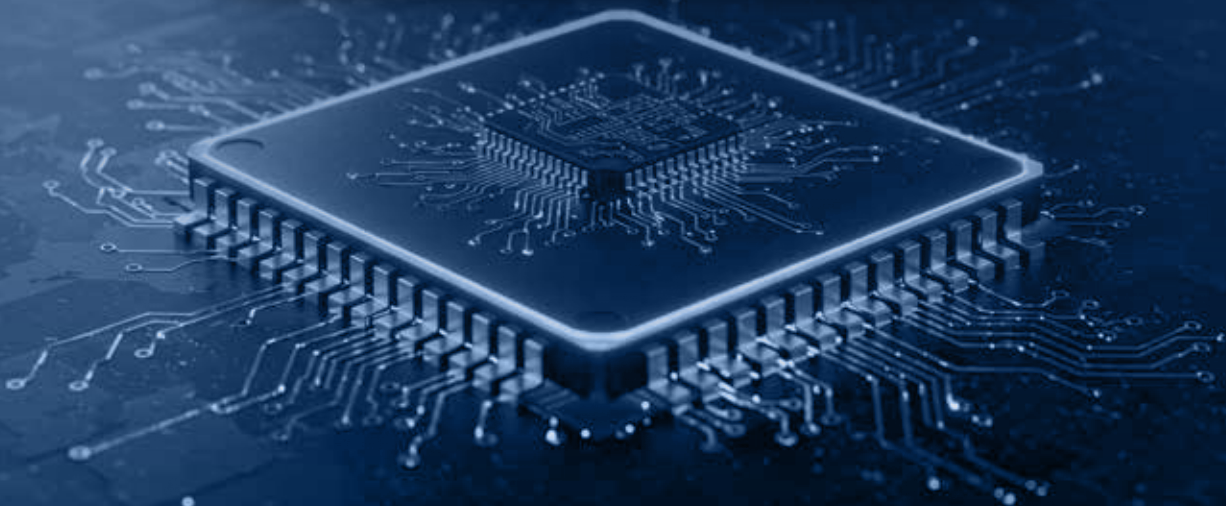
Hands-on training with industry-standard tools

Get trained by India's leading chip design experts

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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



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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.

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Fee Structure

₹99,000 /- + GST

Scholarship Available for Selected students

Click Here to **Enroll**