



SUMMER INTERNSHIP - 2026

Four week hands-on program offered by the Centre of Artificial Intelligence and Integrated Circuits (CAIIC) at Osmania University, bridging academic theory with industry grade design and FPGA Implementation

PROGRAM OVERVIEW & CURRICULUM

- Fundamentals of Digital Design
- Introduction to EDA Tools (AMD Vivado/Cadence/Synopsys)
- Verilog HDL Programming
- FPGA Design Flow using Spartan 7
- AMD SoC Design Flow - AI & ML on FPGA (Kria KV260)
- RTL to GDS Flow basic circuits to complex protocols

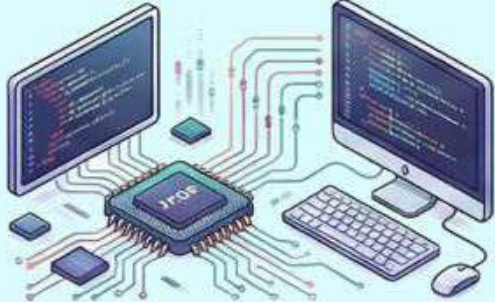
ELIGIBILITY



Target Participants
BE/BTech II and III Year Students of ECE, EEE, BME, CSE (allied branches)

Schedule & Venue
11th May to 5th June 2026
10:00AM to 05:00PM at CAIIC, Room 302, ECE Dept. UCE(A), OU

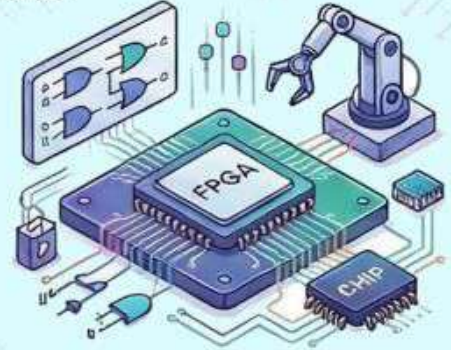
Takeaways



Hands-On FPGA Design Flow
Gain proficiency in writing, simulating, and debugging Verilog HDL code on FPGA platforms.



Industry-Standard Tool Training
Learn to use professional EDA tools including Cadence, Synopsys, and AMD Vivado.



From Fundamentals to Projects
Curriculum covers basic modeling styles, test bench writing, and final mini-projects or case studies.

Scan to Register



Mini Projects on FPGA Implementation will be carried out in this internship. Certificates will be issued upon completion of the internship.

Enrollment Fees

UCE(A), OU Students	Other Students
₹ 1000	₹ 2500

****Limited Seats only, acceptance based on "First come First serve"**

Our Research Portfolio:

- Indigenous Full Custom ADPLL IC in SCL 180nm launched
- Galileo Waveform Generation Toolbox resleased in MATLAB 2025a
- Road distress detection using Deep Learning on Edge SoC
- Smart video surveillance using Edge SoC
- Realtime GNSS software receiver on SoC
- Polar CODEC for Satellite Navigation System
- Memory Controller for multi-core processors in SoC
- Video and Lidar data streaming using KR260 with custom built OS

Chief Patron:
Sr. Prof. Kumar Molugaram
Hon'ble Vice Chancellor, OU

Patron:
Prof. P. Chandra Sekhar
Principal, UCE(A), OU.

Convener:
Prof. P. Naveen Kumar
Head, Dept. of ECE, UCE(A), OU

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