Electronics & ICT Academy IIT Roorkee

An Initiative of
Ministry of Electronics & Information Technology (MeitY)
Government of India

A
Faculty Development Program

on

Semiconductor Fabrication & Packaging Technology
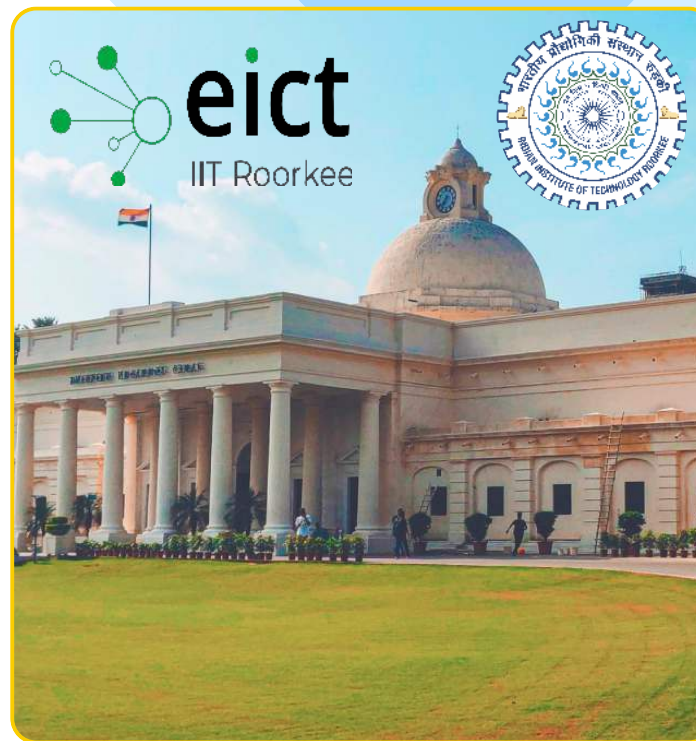
Jan 20 - Jan 25, 2025

First 4 days online
- Last 2 days offline

Register Before: Jan 18, 2025

Experts from IIT Faculty

Hybrid Mode

Venue: E&CE Department IIT Roorkee

Why this course ?

The India Semiconductor Mission (ISM) is dedicated to making India a leader in the semiconductor industry, and expertise in this area will be crucial in shaping India's semiconductor landscape for economic growth and technological advancement. This course aims to provide a fundamental understanding of current technologies and advanced concepts in semiconductors along with exposure to hands-on fabrication. It equips individuals with essential knowledge & skills to contribute to India's goal of becoming a global hub for semiconductor design and manufacturing

Prerequisites

Participants can be Faculty, working professionals, Research Scholars, or Students (passed or appearing UG/PG) of Electronics domain

Objectives of the course

The broad objectives of the course are:
- To provide basic concepts of Integrated Circuit(IC) fabrication.
- To introduce advanced state-of-the-art logic, memory, and packaging technologies
- To introduce semiconductor manufacturing and yield engineering
- To provide hands-on user training on semiconductor fabrication and characterization tools

Focus Areas

VLSI & Semiconductor Technology
- Semiconductor Processing Fundamentals
- Unit Process & Process Integration.
- Advanced Semiconductor Logic, Memory, and Packaging Technologies.

Semiconductor Equipment and Wafer Fab Manufacturing
- Equipment Hardware & System Technologies
- Wafer Fab

Fab Equipment Hands-on Training
- **A basic demo** of – Lithography, Deposition, Etching, and Cleaning

Course Features

- 40 Hours of Lectures, hands-on, and Pedagogy/Industry sessions.
- Lectures from Expert Speakers, Hands-on from industry/Academia experts.
- Access to learning material and video lectures
- Certificate by E&ICT Academy IIT Roorkee

Who Should Register?

Any Interested Faculty/PhD-Scholars UG/PG/ & Industry Persons can register

Registration Fee

Fees: ₹ 250/- Faculty/Research Scholar/ Students
₹ 500/- Industry/Others
Note: Refund will be done in case of course cancellation only, with in 20 working days

- FDP Kits & Refreshment will be provided

How to make Payment

https://eict.iitr.ac.in/instruction-for-payment/

Conference Code: EICTIITR-FDP-H24-01

Registration Link

https://forms.gle/AF54PeonZ2md2FZW8

Scan QR for registration
Register before: Jan 18, 2025

Accommodation

For participants who want to attend this program in offline mode for the last two days i.e. 11-12th Jan 2025, accommodation on a sharing basis will be provided based on the availability of guest rooms on a paid basis.
Accommodation charge:
(INR 672/day/person)
Contact - eict@iitr.ac.in (8112766397) for booking

Follow us on:

Who may benifits

- Academic Faculty and Students(UG/PG)
- Government Officials.
- Working Professionals in the Semiconductor Industry and Startups.
- Reasearch Scientists and Technical Staff.

These certificates can be considered in alignment with other Quality Improvement Programs (QIP) as well as NBA and NAAC for recognition/credit.

Principal Investigator /Course Coordintor

Prof. Sanjeev Manhas
ECE Department, IIT Roorkee

Course Instructors

- Prof. Sanjeev Manhas, IIT Roorkee
- Prof. Arnab Datta, IIT Roorkee
- Prof. Tanmoy Pramanik, IIT Roorkee
- Prof. Brijesh Kumar, IIT Roorkee
- Prof. Pradeep Dixit, IIT Bombay

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