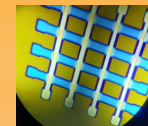
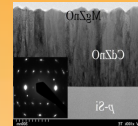
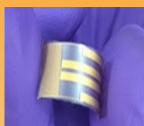




Organized by

**Centre for Advanced Electronics (CAE)
Indian Institute of Technology Indore****February 15-20, 2021****Course Overview**

This faculty development program (FDP) will cover topics in VLSI and nanoelectronics devices and technologies for multidisciplinary applications including computing, communication, medical, defence, space and energy. This FDP is designed to give an exposure to design of experiments, material growth, characterizations and device/system fabrication and system packaging and integration. The vision of the program is to expand knowledge and technology in specialized areas in advanced electronics through research, training, discussions and brainstorming sessions and to inculcate young faculty members, scientists, students and young researchers to become future leaders and innovators. This FDP is in line with various GoI initiatives such as Make in India, Aatmanirbhar Bharat, Skill India, Startup India, Digital India, AMRUT, so on and so forth.

Course Details

Module 1: Advances in VLSI and Nanoelectronics

Module 2: Modeling, material growth, characterization, Cleanroom processing and fabrication of devices, system integration

Module 3: Neuromorphic computation and Silicon brain

Module 4: Advancement in solar cell technology, biomedical applications, and biochemical sensing

Module 5: VLSI circuits and systems for AI and machine learning

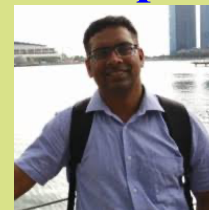
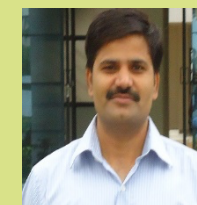
Module 6: Nanoelectronics for energy storage, hybrid electric vehicles, and CMOS Photonics

Module 7: Fundamentals and advances in basics of applications in beyond 5G communications

Module 8: IoT applications of LEDs and Photodiodes

Module 9: On-chip devices for optical fibre communication and optical interconnects

Module 10: Nanofabrication of advanced semiconductor devices for Atmanirbhar Bharat

Eminent Speakers**Prof. Udayan Ganguly**
IIT Bombay**Prof. Nihar Ranjan Mohapatra**
IIT Gandhinagar**Prof. Enakshi Bhattacharya**
IIT Madras**Prof. Madhusudan Singh**
IIT Delhi**Prof. Shree Prakash Tiwari**
IIT Jodhpur**Prof. Mahesh Kumar**
IIT Jodhpur**Prof. Shaibal Mukherjee**
IIT Indore**Prof. Abhinoy Kumar Singh**
IIT Indore**Prof. Vivek Kanhangad**
IIT Indore**Prof. Mukesh Kumar**
IIT Indore**Prof. Ram Bilas Pachori**
IIT Indore**Prof. Vinod Kumar**
IIT Indore**Prof. Vimal Bhatia**
IIT Indore**Prof. Apurba K. Das**
IIT Indore**Prof. Srimanta Pakhira**
IIT Indore

Course Fees

No registration fee for faculty participants from AICTE approved colleges and institutes

Participants from non-AICTE institutes

- Rs. 7,000* (for industry personnel)
- Rs. 5,000* (for faculty / scientist)
- Rs. 2,000* (for student)

*inclusive of service tax

Mode of Payment

For Online Payment

<http://www.iiti.ac.in/page/e-payments>

Bank Transfer

Beneficiary Name: Registrar IIT Indore
Bank Name: Canara bank
Branch: IIT Indore, Khandwa Road, Simrol, Indore
Account number: 1476101027440
IFS Code: CNRB0006223
SWIFT Code/BIC: CNRBINBBISG

Course Registration

- ❖ Number of seats are limited.
- ❖ Online link will be provided for the registered participants prior to the FDP.
- ❖ Certificates will be issued for the registered participants.
- ❖ All relevant queries should be directed through e-mail to: shaibal@iiti.ac.in

Course Coordinator

Dr. Shaibal Mukherjee
Associate Professor,
Centre for Advanced Electronics (CAE),
Indian Institute of Technology Indore,
Madhya Pradesh 453552, India
Website: <http://people.iiti.ac.in/~shaibal/index.php>
Email: shaibal@iiti.ac.in



REGISTRATION PROCESS

Click on the link below for online registration:-

<https://forms.gle/PsqKoDddLzYfWd4F6>

Note

- ✓ Registration in the course should be completed by **February 10, 2021**.
- ✓ Notification of acceptance of registration will be notified via email by **February 13, 2021**.