About PDPM IIITDM Jabalpur

PDPM IIITDM Jabalpur was established in 2005 with a focus on education and research in IT-enabled Design and Manufacturing. Since its inception, PDPM IIITDM Jabalpur has been playing a vital role in producing quality human resources for contribution in India's mission of inclusive and sustainable growth. The Institute offers undergraduate, postgraduate and PhD programmes in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Design and PhD programmes in Mathematics, Physics and Literature. Under IIIT Act, the Institute has been declared an Institute of National Importance in January 2015.

About Department

The discipline of **Electronics and Communication Engineering (ECE)** has a perfect combination of teaching and research activities in the field of Electronics and Communication. Since its inception, the main objective of the discipline has been to impart quality education, hands-on training and research in the frontier areas of Electronics and Communication Engineering with a broad focus on IT-enabled design and manufacturing. The research and teaching expertise of the faculty members of the discipline covers the broad domain of applied and fundamental aspects of Electronics and Communication Engineering. Interdisciplinary research between the research groups of the discipline and with other disciplines and institutes is also in practice. The broad areas of research and academic activities in the discipline are Microwave and Communication Engineering, Signal and Image Processing, Micro & Nano Electronics and Power and Control. The Department has a current faculty strength of 17.

About the FDP

The main objective of FDP is to plan and help impart quality technical education in the country and to support technical institutions in fostering research, innovation, and entrepreneurship through training in various emerging and science fields. The main objective of this FDP is to provide in-depth exposure to Photovoltaics and to raise awareness about the most recent developments in Semiconductor devices within the research group.

The goal is to generate resources that contribute to the advancement of solar energy applications. This helps to avoid the loss of time and energy. The FDP will help the participants identify the problems and find solutions for the fundamental photovoltaic aspects to minimize the research gap existing in this domain.

Program Objectives

- to provide an in-depth understanding of advanced semiconductor materials and innovative device concepts.
- to provide tutorial in the simulation of advanced materials and devices.

Who can participate?

The Faculty Members, Research Scholars, PG Scholars, UG Students, participants from the Government, Industry (Bureaucrats/Technicians/ Participants from Industry, etc.) / School Teachers and staff of host institutions.

Topics to be Covered

- Nanoscience and Nanotechnology
- Modelling of Semiconductor devices
- Simulation and Modeling of Microelectronic Devices
- Quantum Dots for Optoelectronic and Biomedical applications
- FET-based Biosensors and Machine Learning
- Photonics and Nanofabrication
- New-generation Solar Cells
- Fabrication of Solar Cells
- Perovskite Quantum Dots
- Tandem Solar Cells

Tutorial Sessions on
Semiconductor Device Simulation

Guidelines

- Eligible participants will be selected based on first come first serve basis and will be intimated by e-mail only.
- A Digital Certificate will be issued to the registered participants.

Important Dates

Last Date for Receipt of Registration Form	27.01.2024
Information of selection	27.01.2024
FDP Date	29.01.2024 to 02.02.2024

Organizing Committee

Chief Patron

Prof. Bhartendu Kumar Singh
Director, PDPM IIITDM Jabalpur

Advisory Committee

Prof. P.N. Kondekar
Professor, Dept. of ECE & Dean P&D

Prof. Dinesh Kumar V.
Professor, Dept. of ECE & Dean RSPC

Prof. Prabin Kumar Padhy
Professor, Dept. of ECE

Dr. Matadeen Bansal
Assistant Prof. & HoD, Dept. of ECE

Dr. Mukesh Kumar Roy
Assistant Prof., Dept. of NS & FIC Student Affairs

Coordinator

Dr. Dip Prakash Samajdar
Assistant Professor, Dept. of ECE

Co-coordinator

Dr. Koushik Dutta
Assistant Professor, Dept. of ECE

Student Coordinators

Neelesh Jain, Sadhna Singh, Srishti, Gagan Kumar, Babban Kumar Ravidas, Rituraj Jain, Omkar Rajendra Lunge

Registration Details

The registration fee (non-refundable) for various participants for attending FDP is given below:

Registration Type	Fee IEEE Member	Fee IEEE Non-Member
Students/Research Scholars	INR 400	INR 500
Faculty Members	INR 800	INR 1000
Scientis from R&D Organization/ Industry Person	INR 1200	INR 1500

SPEAKERS


Dr. Basudev Pradhan
Central University, Jharkhand


Dr. Sarang Ingole
IIT Kanpur


Dr. Avirup Dasgupta
IIT Roorkee


Dr. Jhuma Saha
IIT Gandhinagar


Dr. Ravi P. Jaiswal
IIT BHU, Varanasi


Dr. Nikhil Deep Gupta
VNIT Nagpur


Dr. Kumar Prasannajit Pradhan
IIITDM Kanchipuram


Dr. Aviru Kumar Basu
INST, Mohali


Dr. Rahul Pandey
Chitkara University, Punjab


Dr. Rupam Goswami
Tezpur University, Assam


Dr. Deepak Jarwal
PDEU, Gandhinagar


Dr. Sagar Bhattarai
IIT Guwahati


Er. Anil Kumar Sharma
Impulse Technology


Er. Amit Saini
Cadre Design Systems

Registration Form

Participants are requested to register and make payment compulsorily at the following link:

https://forms.gle/uUVs2rR4iPzFf3Nk6

For Further Enquiries contact :

ieeentc@iiitdmj.ac.in

Mob. : 9424983777, 9575227201

FIVE DAYS
FACULTY DEVELOPMENT PROGRAM
ON
ADVANCED SEMICONDUCTOR DEVICES
(Virtual Mode)

29 January - 02 February 2024

Organized By

Department of Electronics and Communication Engineering
PDPM Indian Institute of Information Technology, Design and Manufacturing
Jabalpur-482005, MP, India

Sponsored by

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