



**PDPM
IIITDM
Jabalpur**

**FIVE-DAYS
FACULTY DEVELOPMENT PROGRAM
ON**

ADVANCED SEMICONDUCTOR DEVICES

**29 Jan. - 02 Feb. 2024
(Virtual Mode)**

Tentative Schedule



Date	9:30 AM	10:00 AM to 11:30 AM		11:45 AM to 1:15 PM		2:30 PM to 4:00 PM
29.01.2024	Inauguration	Session-1 "Emerging Quantum Materials and Technologies for Development of Semiconductors and MEMS/NEMS Devices" Dr. Aviru Kumar Basu INST, Mohali	B R E A K	Session-2 "III-V Material-Based Devices for Optoelectronic Applications" Dr. Jhuma Saha IIT Gandhinagar	B R E A K	Session-3 "Fabrication and research aspects of the crystalline Si-PV and dye-sensitized solar cells" Dr. Ravi P. Jaiswal IIT BHU, Varanasi
30.01.2024		Session-4 "Mimicking of Biological Behaviour Through CMOS and Beyond CMOS Based Devices" Dr. Kumar P. Pradhan IIITDM, Kancheepuram		Session-5 "Semiconductor physics, fabrication of devices and their characterization" Dr. Sarang Ingole IIT Kanpur		Session-6 "Design and Development of Photonic Nanostructures for Solar Energy Harvesters" Dr. Nikhil Deep Gupta VNIT, Nagpur
31.01.2024		Session-7 "Advances in Machine Learning for Electron Device Automation" Dr. Avirup Dasgupta IIT Roorkee		Session-8 "Attempts at Understanding Incomplete Ionization: TCAD strategies in Tunnel FETs" Dr. Rupam Goswami Tezpur University		Session-9 "Tutorial Session 2" Er. Amit Saini Cadre Design Systems
01.02.2024		Session-10 "Perovskite quantum dots: An emerging material for optoelectronics device application" Dr. Deepak Jarwal PDEU Gandhinagar		Session-11 "Progress and challenges in the development of next-generation solar cells technology" Dr. Basudev Pradhan Central University of Jharkhand		Session-12 "Tutorial Session 2" Er. Anil Kumar Sharma Impulse Technology
02.02.2024		Session-13 "Perovskite Tandem solar cell" Dr. Rahul Pandey Chitkara University, Punjab		Session-14 "Tutorial Session 1" Dr. Sagar Bhattarai IIT Guwahati		Valedictory Function