

Tentative Schedule

Next Generation Semiconductor Devices and Materials

February 03 to 08, 2025 (Hybrid Mode)

Date	Day	9:30-11.30 AM	11:30 AM-1:30 PM		2:30 PM-6:30 PM	
February 03, 2025	Monday	9.30-10.00 AM Inauguration	PM, Lecture (L) 1: "Quantum dot heterostructures for optoelectronic devices" Dr. Jhuma Saha, IIT Gandhinagar	Lunch	Tutorial (T) 1: "Theoretical simulation of optoelectronic Devices using nextnano software" Dr. Jhuma Saha, IIT Gandhinagar	Tutorial (T) 1: "Theoretical simulation of optoelectronic Devices using nextnano software" Dr. Jhuma Saha, IIT Gandhinagar
February 04, 2025	Tuesday	L-2: "2-D materials for Nano-electronics and Energy storage devices" Dr. Neeraj Jaiswal, PDPM IIITDM Jabalpur	T-2: "DFT Computation using Quantum Espresso" Dr. Indranil Mal, IIT Delhi		T-2: "DFT Computation using Quantum Espresso" Dr. Indranil Mal, IIT Delhi	T-2: "DFT Computation using Quantum Espresso" Dr. Indranil Mal, IIT Delhi
February 05, 2025	Wednesday	L-3: "Modeling and Design of Semiconductor devices" Dr. Avirup Dasgupta, IIT Roorkee	L-4: "New- Generation Solar Cells" Dr. D.P. Samajdar, PDPM IIITDM Jabalpur		T-3: "Simulation and Modelling of VLSI-Nanoscale Devices" Dr. Vibhuti Chauhan, MANIT Bhopal	T-3: "Simulation and Modelling of VLSI-Nanoscale Devices" Dr. Vibhuti Chauhan, MANIT Bhopal
February 06, 2025	Thursday	L-4: "Nanoscale FinFETs for Low Power Applications" Dr. D.P. Samajdar, PDPM IIITDM Jabalpur	T-4: "Simulation of Solar Cells using SCAPS-1D" Dr. Rahul Pandey, Chitkara University		T-4: "Simulation of Solar Cells using SCAPS-1D" Dr. Rahul Pandey, Chitkara University	T-3: "Simulation and Modelling of VLSI-Nanoscale Devices" Dr. Vibhuti Chauhan, MANIT Bhopal
February 07, 2025	Friday	L-5: "Micro and Nano device fabrications" Prof. Mahesh Kumar, IIT Jodhpur	L-6: " Novel Memory Circuit & IP Design" Dr. Vishal Sharma, Intel		L- 7, "Power Modelling and Efficiency and Reliability in next-gen products" Mr. Pooja Kumawat, NVIDIA	
February 08, 2025	Saturday	9:30 AM-12:30 AM, L-8: "MEMS/NEMS based sensor for various applications" Dr. Aviru Kumar Basu, INST Mohali			2:30 PM- 3:30 PM (Quiz)	Valedictory