

Indian Nanoelectronics Users' Programme - Idea to Innovation (INUP-i2i)
18th User Awareness Workshop on Device Fabrication and Characterization
Indian Institute of Technology Delhi
12th – 13th December, 2024
(Virtual Mode)



Workshop Coordinators: Prof. Neeraj Khare & Prof. Prashant Mishra

Day 1 (12th December 2024, Thursday)

10:00 – 10:45	Inauguration	
10:00 – 10:10	Prof. Neeraj Khare (Department of Physics, IITD)	Introduction to INUP-i2i Program
10:10 – 10:25	Dr. Sunita Verma (Scientist G, MeitY)	Address to Participants
10:25 – 10:45	Prof. Prashant Mishra (Biochemical Engineering and Biotechnology, IITD)	Introduction about the Workshop
10:45 – 11:30	Prof. Bhaskar Mitra (Electrical Engineering, IITD)	Clean Room
11:30 – 13:00	Prof. Sujeet Chaudhary (Department of Physics, IIT Delhi)	Vacuum Techniques
Lunch Break		
14:00 – 15:00	Prof. P.K. Muduli (Department of Physics, IIT Delhi)	Sputtering
15:00 – 15:30	Prof. Samaresh Das (CARE, IIT Delhi)	ALD
15:30 – 16:00	Prof. Neeraj Khare (Department of Physics, IITD)	E-Beam Deposition
16:00 – 17:00	Prof. Dhiman Mallick (Electrical Engineering, IITD)	Reactive Ion Etching

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Day 2 (13th December 2024, Friday)

10:00 – 10:45	Prof. Prashant Mishra (Biochemical Engineering and Biotechnology, IITD)	Fourier-Transform Infrared Spectroscopy (FTIR)
10:45 – 11:30	Prof. Sunil Kumar (Department of Physics, IITD)	Photoluminescence (PL)/RAMAN Spectroscopy
11:30 – 12:15	Prof. Neeraj Khare (Department of Physics, IITD)	X-Ray Diffraction (XRD) / Scanning Electron Microscope (SEM)
12:15 – 13:00	Prof. Ankur Goswami (Materials Science and Engineering, IITD)	Atomic Force Microscope (AFM)
Lunch Break		
14:00 – 14:45	Prof. Anuj Dhawan (Electrical Engineering, IITD)	Spectroscopic Ellipsometry for characterization of nanoscale thin films
MCQ Based Quiz, Feedback and Concluding Remark		
14:45 – 15:00	MCQ Based Quiz/Feedback	
15:00 – 15:30	Concluding Remark	