

INUP-i2i 2022

Indian Nanoelectronics User's Program- Idea to Innovation

NRF, Indian Institute of Technology Delhi, New Delhi

08 – 09 February, 2022



DAY 1 (08th February 2022/Tuesday)

10:00 - 10:45	Inauguration	
10:00 – 10:05	Prof. J. P. Singh (IITD)	Welcome Address
10:05 – 10:25	Prof. Neeraj Khare (Coordinator, NRF, IITD)	Introduction to Nanoscale Research Facility
10:25 – 10:30	Dr. Sangeeta Semwal (Scientist, Meity)	Introduction to INUP-i2i Program
10:30 – 10:35	Prof. Ramgopal Rao (Director, IITD)	Address to Participants
10:35 – 10:45	Prof. Prashant Mishra (IITD)	About the present workshop
Synthesis and Fabrication Technique		
11:00 – 11:45	Prof. Bhaskar Mitra	Thermal and Electron Beam Evaporation in NRF

11:45 – 12:30	Prof. Vamsi Komarala	Thin Film Deposition by Plasma Techniques: Sputtering and Chemical Vapor Deposition
Lunch		
Photolithography/Clean Room		
14:00 – 14:45	Prof. Bhasker Mitra	Clean Room
14:45 – 15:30	Prof. Samaresh Das	Lithography: Micro and Nano sensors development
Materials morphology/electrical measurements		
15:30 – 16:15	Prof. Rajendra Singh	Electrical studies on nanomaterials and nanoscale devices
16:15-17:00	Prof. J.P. Singh	Scanning Probe Microscopy- eyes of nanotechnology
END OF DAY 1		

DAY 2 (09th February 2022/Wednesday)

Spectroscopy

10:00 – 10:45	Prof. J.P. Singh	Optical characterizations: photoluminescence & Raman spectroscopy
10:45 – 11:30	Prof. Anuj Dhawan	Spectroscopic Ellipsometry for characterization of nanoscale thin films
11:30 – 12:15	Prof. Prashant Mishra	FTIR as a tool for characterization of sensing elements of chemo-/bio-sensors
Materials structure		
12:15 – 13:00	Prof. Neeraj Khare	XRD/SEM
Lunch		
14:30 – 15:15	Prof. Prashant Mishra	Availing NRF Facility through INUP-i2i
15:20-16:00	MCQ Based Quiz	