



इलेक्ट्रॉनिकी एवं  
सूचना प्रौद्योगिकी मंत्रालय  
MINISTRY OF  
ELECTRONICS AND  
INFORMATION TECHNOLOGY

# INUP i2i

Indian Nanoelectronics Users' Programme - Idea to Innovation  
(Project funded by MeitY, Govt. of India)



## Hands-on Training on Thin Film based Field-Effect Transistor (FET)

Date: 9<sup>th</sup> -13<sup>th</sup> July, 2024



### Objective of Workshop:

This hands-on training workshop offers a comprehensive introduction and practical experience on Thin Film based Field-Effect Transistor (FET). It caters to beginners or individuals with limited formal training in the field, while also serving as a valuable review for those with some prior knowledge. The course covers different aspects of Semiconductor Device Fabrication such as thin film deposition, lithography, wet & dry etching, and electrical characterization of the devices. Participants will also gain practical skills of working in the clean room environment.

### Registration Deadline

4<sup>th</sup> July, 2024

### Training Outline:

Overview of different thin film deposition techniques

- ▶ E-beam Evaporation
- ▶ Thermal Evaporation
- ▶ Lithography
- ▶ Wet and Dry Etching
- ▶ Electrical Characterization of Device

### Workshop Coordinators

Prof. Neeraj Khare  
Physics, IIT Delhi

Prof. Prashant Mishra  
DBEB, IIT Delhi

Prof. Samaresh Das  
CARE, IIT Delhi

Prof. Bhaskar Mitra  
EE, IIT Delhi

### Facilities at IIT Delhi

<https://inup.iitd.ac.in/Characterisation.html>  
<https://inup.iitd.ac.in/fabrication.html>

For Registration



### Contact US

Indian Institute of Technology Delhi  
Hauz Khas, New Delhi - 110016  
011 2659 6457  
Email-id: [inup@admin.iitd.ac.in](mailto:inup@admin.iitd.ac.in)