



Ministry of Electronics &  
Information Technology,  
Government of India



Indian Nanoelectronics Users' Programme – Idea to Innovation  
A project of MeitY, Govt. of India



**INUP- i2i Hands-on Training Workshop on Fabrication and Characterization of  
2D MoS<sub>2</sub> Transistor  
October 09-18, 2023, IIT Bombay**

**Programme Schedule**

<b>Monday (October 9, 2023)</b> <b>Venue: Conference Room, 4th Floor, VMCC</b>		
08:30 - 09:20 AM	<b>Registration</b>	
09:30 - 09:35 AM	Welcome address	
09:35 - 10:45 AM	Overview of INUP-i2i	Dr. K. Nageswari
10:45 - 11:15 AM	Tea Break	
11:15AM - 12:30 PM	Overview of IITBNF infrastructure	Dr. Deepti Rukade
12:30 - 01:00 PM	Process flow	Dr. Poulomi Chakrabarty
01:00 - 02:00 PM	Lunch Break	
02:00 - 07:00 PM	Lab tour	
<b>Tuesday (October 10, 2023)</b> <b>Venue: Conference Room, 4th Floor, VMCC</b>		
09:30 - 10:30 AM	2D Devices: Research, Fabrication and Characterization overviews	Prof. Saurabh Lodha
10:30 - 11:00 AM	Tea Break	
11:00 AM -12Noon	Thin Film Deposition	Mr. Soumyadip Chatterjee
12 Noon - 01:00 PM	Mask file designing using Clewin Software	Mr. Shubham Patil
01:00 - 02:00 PM	Lunch Break	
02:00 - 07:00 PM	Lab session	
<b>Wednesday (October 11, 2023)</b> <b>Venue: Conference Room, 4th Floor, VMCC</b>		
09:30 - 10:30 AM	Electrical characterization of devices	Mr. Paritosh Meihar
10:30 - 11:00 AM	Tea Break	
11 AM - 1:00 PM	Lithography	Prof. Anil Kottantharayil
01:00 - 02:00 PM	Lunch Break	
02:00 - 07:00 PM	Lab session	
<b>Thursday (October 12, 2023)</b> <b>Venue: Conference Room, 4th Floor, VMCC</b>		
09:30 - 10:30 AM	Low Temperature Alumina as a Passivation Layer on GFETs	Mr. Nama Preamsai

10:30 - 11:00 AM	Tea Break	
11:00 AM -12 Noon	Plasma Doping System - Principle and working	Mr. Rowtu Srinu
12 Noon - 01:00 PM	Overview of Deep Reactive Ion Etching	Dr. Bikash Dev Choudhury
01:00 - 02:00 PM	Lunch Break	
02:00 - 07:00 PM	Lab session	
<b>Friday (October 13, 2023)</b>		
<b>Venue: Conference Room, 4th Floor, VMCC</b>		
09:30 - 10:15 AM	Density Functional Theory	Mr. Shashank Inge
10:15 - 11:00 AM	Photoluminescence Spectroscopy	Mr. Soumyadip Chatterjee
11:00 - 11:30 AM	Tea Break	
11:30 AM - 12:15 PM	2D materials based optoelectronic devices	Dr. Poulomi Chakrabarty
12:15 PM - 1:00 PM	Presentation by participants	
01:00 - 02:00 PM	Lunch Break	
02:00 - 07:00 PM	Lab session	
<b>Monday (October 16, 2023)</b>		
<b>Venue: Conference Room, 4th Floor, VMCC</b>		
09:30 - 11:00 AM	Metrology: Semiconductor Materials and Devices	Prof. Apurba Laha
11:00 - 11:30 AM	Etching & Lift off	Mr. Nama Premsai
11:00 AM - 12 Noon	Tea Break	
12 Noon - 1:00 PM	Atomic Layer Deposition	Ms. Anjum Ahmed
01:00 - 02:00 PM	Lunch Break	
02:00 - 07:00 PM	Lab session	
<b>Tuesday (October 17, 2023)</b>		
<b>Venue: Conference Room, 4th Floor, VMCC</b>		
09:30 - 10:30 AM	Pulsed Laser Deposition	Dr. Aditya Narayan Pandey
10:30 - 11:00 AM	Tea Break	
11:00 AM - 01:00 PM	Presentation by participants	
01:00 - 02:00 PM	Lunch Break	
02:00 - 07:00 PM	Lab session	
<b>Wednesday (October 18, 2023)</b>		
<b>Venue: Conference Room, 4th Floor, VMCC</b>		
09:30 -10:15 AM	MCQ Test	
10:15 - 10:45 AM	Tea Break	
10:45 AM- 12 Noon	Presentation by participants	
12 Noon - 12:30 PM	Feedback session and closing remarks	