



Ministry of Electronics &  
Information Technology,  
Government of India



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



## INUP-i2i FAMILIARIZATION WORKSHOP ON NANOFABRICATION TECHNOLOGIES, January 23-25, 2023, IIT Bombay Programme Schedule

Monday (January 23, 2023)		
0930 - 0945	Welcome address by Prof. Ashwin Tulapurkar	
	<b>Theme 1: Sensors</b>	
1000 - 1100	Quantum Tunneling based Electronic Nose and Tongue Sensors	Prof. Swaroop Ganguly
1100 - 1115	Tea Break	
1115 - 1245	Photolithography	Prof. Anil Kottantharayil
1245 - 1400	Lunch Break	
	<b>Theme 2: Logic &amp; Memory Devices</b>	
1400 - 1500	Transient memory and learning in correlated oxide neuromorphic devices	Prof. Sandip Mondal
	<b>Theme 3: HEMT Devices</b>	
1500 - 1600	High Electron Mobility Transistors	Prof. Dipankar Saha
1600 - 1615	Tea Break	
	<b>Theme 4: Quantum Computation and Electronics</b>	
1615 - 1700	Diamond based quantum technologies	Prof. Kasturi Saha
1700 - 1930	Poster presentation (participants)	

Tuesday (January 24, 2023)		
	<b>Theme 5: 2D Materials &amp; Devices</b>	
0930 - 1030	Few-layer TMDs for high performance photodetection	Prof. Saurabh Lodha
	<b>Theme 6: Nanoscale Device Modeling</b>	
1030 - 1130	The NEGF technique for nanoscale device simulation	Prof. Bhaskaran M
1130 - 1145	Tea Break	
1145 - 1245	An Overview of IITBNF Research Infrastructure	Dr. Deepti Rukade
1245 - 1400	Lunch Break	
1400 - 1500	Reactive Ion (Plasma dry) Etching–RIE for Micro and Nanoscale device processing - An overview	Dr. Bikash Dev Choudhury
1500 - 1600	Leaky Integrate and Fire Neurons in a Liquid State Machine for Neuromorphic Computing	Dr. Ajay K. Singh

1600 - 1615	Tea Break	
1615 - 1715	An Overview of INUP-i2i & How to avail IITBNF Facilities through INUP-i2i?	Dr. K. Nageswari
1715 – 1930	Poster presentation (participants)	

<b>Wednesday (January 25, 2023)</b>		
	<b>Theme 7: Compound Semiconductor Devices</b>	
0930 – 1030	III-Nitride Nano-optoelectronics: Exploring the Unexplored Potentials of Quantum Nature of III-Nitride semiconductors	Prof. Apurba Laha
1030 – 1130	Defects in Silicon	Prof. B.M. Arora
1130 - 1145	Tea Break	
	<b>Theme 8: Photovoltaics</b>	
1145 - 1245	Crystalline Silicon Solar Cell Research at NCPRE	Prof. Anil Kottantharayil
1245 - 1400	Lunch Break	
	<b>Theme 9: Organic Electronics</b>	
1400 - 1500	Organic and Perovskite Optoelectronic Device Research @ IITBNF	Prof. Dinesh Kabra
	<b>Theme 10: Spintronics</b>	
1500 – 1600	Spin-based devices and phenomena	Prof. Ashwin Tulapurkar
1600 - 1615	Tea Break	
1615 – 1715	MCQ Test	
1715 – 1900	Poster presentation (participants)	