



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 19-21, 2022, IIT Bombay Programme Schedule

Wednesday (January 19, 2022)	
	Prof. Saurabh Lodha, PI, INUP-i2i, IITB (Compere)
0930 - 0940	Welcome address by Prof. Subhasis Chaudhuri - Director, IIT Bombay
0940 - 1000	Address by Guest of Honor Dr. R. Chidambaram - Former Principal Scientific Advisor, Govt. of India
1000 - 1020	Inaugural Address by Chief Guest Shri. Ajay Prakash Sawhney, Secy. MeitY, Govt. of India
1020 - 1025	Inauguration of INUP-i2i common web portal by Chief Guest Shri. Ajay Prakash Sawhney, Secy. MeitY, Govt. of India
1025 - 1035	Introduction to INUP-i2i portal by Prof. Dipankar Bandyopadhyay, PI, INUP-i2i, IIT Guwahati
1035 - 1050	Address by MeitY official in charge of INUP-i2i
1050 - 1105	Address by Prof. J. Vasi, IIT Bombay, founding PI, INUP IITB
1105 - 1120	Introduction to INUP-i2i at IITB by Prof. Ashwin Tulapurkar, PI, INUP-i2i, IITB
1120 - 1125	Vote of Thanks by Prof. Swaroop Ganguly, PI, INUP-i2i, IITB
<b>Theme 1: Logic &amp; Memory Devices</b>	
1130 – 1215	Of Neurons and Synapses: RRAM based Neuromorphic Engineering Prof. Udayan Ganguly
1215 – 1300	Memory Technology to Mimic Biological Neuron Prof. Sandip Mondal
1300 – 1400	Lunch Break
<b>Theme 2: MEMS &amp; Microfluidics</b>	
1400 – 1445	Microfluidic devices for healthcare applications Prof. Debjani Paul
1445 – 1530	Role of MEMS in Fuel Cell Technology Prof. Richard Pinto
<b>Theme 3: Compound Semiconductor Devices</b>	
1530 – 1615	Fabrication of GaN transistors Prof. Dipankar Saha
1615 – 1700	III-Nitride semiconductors: Growth to Devices Prof. Apurba Laha
1700 – 1745	ISTEM Dr. Sanjeev Kumar Shrivastava

1745 – 1630	Poster presentation (participants)	
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<b>Thursday (January 20, 2022)</b>		
	<b>Theme 4: Sensors</b>	
0930 – 1015	CMOS compatible NEMS/MEMS for power gating and power management applications	Prof. Maryam Shojaei
1015 – 1100	Functionalization of microfabricated surfaces	Prof. Soumyo Mukherji
1100 – 1145	Porosity tailored hard nanocarbons: from science to applications	Prof. C. Subramaniam
1145 – 1230	Introduction to Microsystems Packaging	Prof. Pradeep Dixit
1230 - 1330	Lunch Break	
	<b>Theme 5: Organic Electronics</b>	
1400 – 1445	Organic and Perovskite Optoelectronic Device Research @ IITBNF	Prof. Dinesh Kabra
1445 – 1530	Flexible and Printed Electronics	Prof. Dipti Gupta
	<b>Theme 6: 2D Materials &amp; Devices</b>	
1530 – 1615	Few-layer TMDs for high performance photodetection	Prof. Saurabh Lodha
1615 - 1700	Controlling epitaxial growth of layered transition metal dichalcogenides	Prof. Tanushree H. Choudhury
1700 - 1830	Poster presentation (participants)	

<b>Friday (January 21, 2022)</b>		
	<b>Theme 7: Photovoltaics</b>	
0930 – 1015	Crystalline silicon solar cell research at NCPRE	Prof. Anil Kottantharayil
1015 – 1100	Recombination Processes in Semiconductors	Prof. B.M. Arora
1100 – 1130	What can we learn from optical absorption experiments?	Prof. K.L. Narasimhan
	<b>Theme 8: Spintronics</b>	
1130 – 1215	Spin-based devices and phenomena	Prof. Ashwin Tulapurkar
1215 - 1300	The NEGF technique for nanoscale device simulation	Prof. Bhaskaran M
	Lunch Break	
	<b>Theme 9: Quantum Computation and Electronics</b>	
1400 – 1445	Materials and Nanoelectronic Devices for Semiconductor Spin Quantum Computing	Prof. Suddhasatta Mahapatra
1445 - 1530	Diamond based quantum technologies	Prof. Kasturi Saha
1530 – 1615	An Overview of IITBNF Research Infrastructure	Dr. Deepti Rukade
1615 – 1700	How to avail IITBNF Facilities through INUP-i2i?	Dr. K. Nageswari
1700 – 1730	MCQ Test	
1730 – 1830	Poster presentation (participants)	