



Ministry of Electronics &
Information Technology,
Government of India



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



TCAD – Circuit Simulation Workshop

August 1-5, 2022 IIT Bombay

Programme Schedule Virtual Mode (Microsoft Team)

Monday (August 1, 2022)				
Time		Title	Instructor/Speaker	Organization
IST	PST			
4:00pm – 5:00pm	3:30am – 4:30am	Semiconductor Device Physics Recap	Swaroop Ganguly	Professor, IITB
5:15pm – 6:15pm	4:45am – 5:45am	Semiconductor Process Tech Recap	Saurabh Lodha	Professor, IITB
		Inaugural Session		
8:45pm – 8:50pm	8:15am – 8:20am	Welcome Address by Prof. S. Sudarshan, Deputy Director (AIA) & Prof. Siddhartha Ghosh, Dean (EO), IIT Bombay		
8:50pm – 9:00pm	8:20am – 8:30am	Inaugural Address by Dr Jaideep Kumar Mishra, Additional Secretary, Ministry of Electronics and Information Technology (MeitY)		
9:00pm – 9:05pm	8:30am – 8:35am	Address by Smt. Sunita Verma, Group Coordinator (R&D E & IT), Ministry of Electronics & Information Technology (MeitY)		
9:05pm – 9:10pm	8:35am – 8:40am	Address by Raja Subramaniam, VP, Applications Engineering, Synopsys		
9:10pm – 9:15pm	8:40am – 8:45am	Address by Aveek Sarkar, VP, Engineering, Synopsys		
9:30pm – 10:30pm	9:00am – 10:00am	TCAD Introduction	Ricardo Borges	Synopsys
10:30pm – 11:00pm	10:00am – 10:30am	28nm Node Overview	Ricardo Borges	Synopsys
Tuesday (August 2, 2022)				
9:30pm – 10:15pm	9:00am – 9:45am	Process Simulation	Arup Saha	Synopsys
10:30pm – 11:15pm	10:00am – 10:45am	Device Simulation	Sameer Shah	Synopsys
Wednesday (August 3, 2022)				
9:30pm – 10:15pm	9:00am – 9:45am	Compact Model Extraction	Vinay Kumar	Synopsys
10:30pm – 11:15pm	10:00am – 10:45am	Ring Oscillator (RO) Intro	Ricardo Borges	Synopsys
2:00pm – 3:30pm	1:30am – 3:00am	Sentaurus Workbench + Sentaurus Visual + Process Simulation Lab	Sameer Shah & Arup Saha	Synopsys
4:00pm – 5:30pm	3:30am – 5:00am	Process Lab (contd.) + Device Simulation Lab	Arup Saha & Sameer Shah	Synopsys
Thursday (August 4, 2022)				
9:30pm – 10:15pm	9:00am – 9:45am	RO Simulation	Sahaja Thallman	Synopsys
10:30pm – 11:15pm	10:00am – 10:45am	Advanced Topics	Shela Aboud	Synopsys
2:00pm – 3:30pm	1:30am – 3:00am	Compact Model Lab	Vinay Kumar	Synopsys
Friday (August 5, 2022)				
11:00am – 12:30pm	10:30pm – 12:00am (+1)	RO Simulation Lab	Sahaja Thallman	Synopsys