



INUP i2i

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



COMSOL

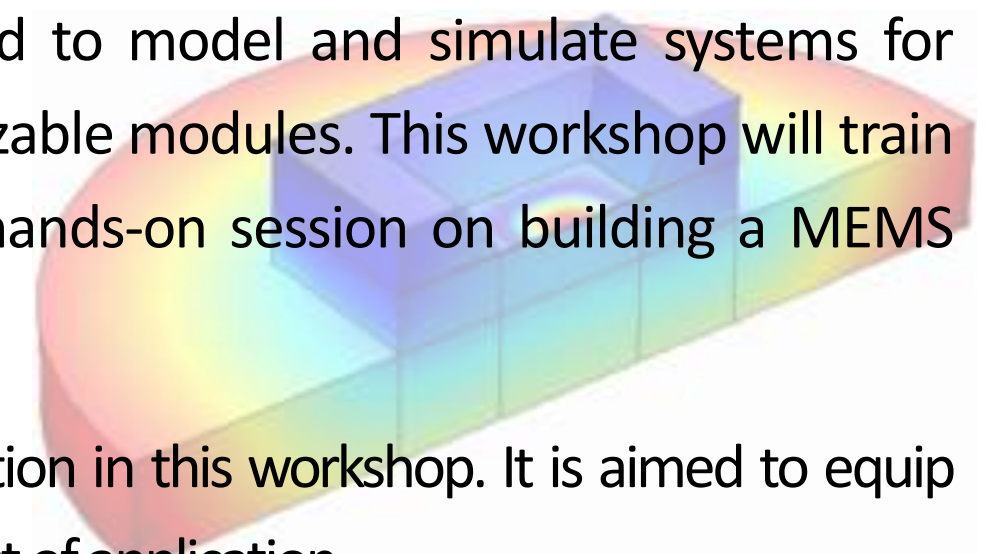


Workshop: MEMS Simulations with COMSOL Multiphysics

Centre for Nano Science and Engineering (CeNSE), IISc is delighted to announce an online workshop, “MEMS Simulations with COMSOL Multiphysics”, from 6th to 7th Oct 2022, in partnership with COMSOL, under the MeitY, Govt. of India initiative, the Indian Nanoelectronics Users' Programme (INUP). INUP was started in 2008 by IITB and IISc, with support from the Ministry of Electronics & Information Technology, in order to nurture the semiconductor and nanoelectronics ecosystem in India through broad-based training. Today, it is run by a network of six leading institutes across the country, under the name INUP-i2i.

The widespread applications of semiconductor technology can only be realized with intensive analytical and modelling studies to optimize various parameters and tune the functionality to obtain the desired attributes. COMSOL Multiphysics is a cross-platform finite element analysis (FEA) solver and multiphysics simulation software. It can be used to model and simulate systems for electrical, mechanical, fluid, acoustics, and chemical applications with versatile and customizable modules. This workshop will train participants in the basics of FEA simulation using COMSOL Multiphysics, and include a hands-on session on building a MEMS sensor in COMSOL.

Online applications are invited from interested researchers in academia and industry for participation in this workshop. It is aimed to equip participants to extend their learnings from workshop to build models and simulations of their interest of application.



Workshop Outline

- **Session 1:** Basics of Modeling in COMSOL Multiphysics
- **Session 2:** Best practices for COMSOL simulations with case study from the Structural Mechanics Module
- **Session 3:** Multiphysics simulation of piezoelectric devices
- **Session 4:** Multiphysics simulation of capacitive sensing applications

Registered participants will receive a meeting link prior to the workshop, as well as a 14-day trial license of COMSOL Multiphysics for the hands-on session.

Important Dates

Registration Deadline: 15th Sep, 2022
Registration Confirmation: 20th Sep, 2022
Workshop Dates: 6th Oct & 7th Oct, 2022

Limited Seats!!

Use link below or scan QR for registration

<https://forms.gle/kydaAYV8FCHbwFzm8>



Organising Committee

- Prof. Saurabh Arun Chandorkar
- Prof. Akshay Naik
- Deepali Shewale

