

5-Day Hands-on Training Program on “Modelling of Fluid Flow and Heat Transfer using COMSOL Multiphysics” (ONLINE)

Schedule : 8th Dec - 12th Dec, 2025

Time	Day 1	Day 2	Day 3	Day 4	Day 5
15:00 - 16:30	Introduction to fluid flow and heat transfer modelling	Microscale flows and bio-particle separation	Mixing fluids in microchannel flows	Droplet generation and manipulation	Heat transfer
16:30 - 17:00	1-1 Discussion				

Details of the course:

- **Dates:** 8th Dec to 12th Dec, 2025
- **Number of participants:** 50 (based on a first come, first basis)
- **Registration fees:** Rs. 553/-
- **Medium of instruction:** Online
- **Last date of registration:** 5th Dec, 2025
- **Registration:** Applicants are requested to pay the registration fee using, [Link](#) ("Educational institutes<Filter by State-choose-Tamilnadu<search-iiitdm<select IIITDM - EDUCATIONAL EVENTS<select payment category-Modelling of fluid flow")
- Fill the google form with payment proof, [Form](#)

Who Can Apply?:

Students (UG/PG)/PhD Scholars, Faculty/R&D Organizations, Industry Participants

Instructors:



Dr. Karthick S



Dr. Kishor Kumar Gajrani

Assistant Professor,
Department of Mechanical Engineering,
IIITDM Kancheepuram

Highlights of the course:

- e-Certificate on the successful completion of the course.
- Live hands-on and troubleshooting
- 1-1 discussion with the instructor

Dr. Karthick S is a researcher and educator in fluid mechanics, heat transfer, and microscale acoustofluidics. His work develops theoretical frameworks from the Navier–Stokes equations to study nonlinear acoustic forces, droplet stability, and migration. His research has been published in leading journals, including Physics of Fluids and the Journal of Fluid Mechanics.

Dr. Kishor Kumar Gajrani is an Assistant Professor in the Department of Mechanical Engineering at the IIITDM, Kancheepuram, India. He leads the Subtractive and Additive Manufacturing (SAM) lab at IIITDM Kancheepuram. His research interests include sustainable machining processes, Micromachining and Microfabrication, Additive Manufacturing, Surface engineering, and Tribology.

For any queries, please write to karthick@iiitdm.ac.in