CONTACT

Director
Directorate of Continuing Education (DCE)
BUET, Dhaka-1000

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About DCE

DCE established in **1995 at BUET**, a platform for decentralized and adaptive learning to bridge the gap between Professionals and Academicians, promotes pedagogical development with a combined experience of Academicians and Professionals and offers distance training opportunities. So far, **202** short courses/training workshops have been offered to serve more than **10,500** professionals.

Short Course Outcomes

At the end of this course, participants are expected to

- Improved ability to solve complex engineering problems.
- Proficiency in using COMSOL Multiphysics software for simulations.
- Understanding of how COMSOL Multiphysics software applies to various engineering disciplines.
- Hands-on experience with engineering analysis and simulation.
- Preparedness for participation in research projects involving COMSOL Multiphysics.
- Development of critical thinking and analytical skills.
- Ability to apply COMSOL Multiphysics to real-world projects and challenges.

RESOURCE PERSON

Professor Dr. Sumon Saha
Department of Mechanical Engineering, BUET.

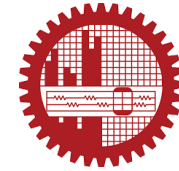## DURATION

1, 8 December 2023 (2 days)

LANGUAGE

English and Bangla

CERTIFICATE

A certificate of attendance will be provided.

Short Course On

COMSOL Multiphysics Simulation of Thermofluidic Problems (Basic Level)

1, 8 December 2023

BUET, Dhaka

Organized by

Directorate of Continuing Education (DCE)
Bangladesh University of Engineering and Technology
Dhaka-1000

For registration and Details Please Scan
https://forms.office.com/r/xdygciYnqf?origin=lprLink

Finite Element Method (FEM) is a cornerstone of modern engineering practice, enabling the simulation and analysis of complex systems across diverse fields, from structural mechanics to fluid dynamics and heat transfer. This hands-on training in COMSOL Multiphysics simulation is essential for acquiring the necessary skills and knowledge to effectively utilize FEM for modeling, simulation, and design optimization. This course will empower one to tackle real-world engineering challenges with confidence, fostering problem-solving abilities and a deep understanding of mathematical principles applied in practice. Moreover, proficiency in COMSOL Multiphysics software aligns with industry demands, enhancing our graduates' employability and research and collaboration opportunities within the engineering and scientific communities. By offering this course, we ensure our participants are well-prepared for the interdisciplinary, simulation-driven landscape of 21st-century engineering.

Join the official short course on COMSOL Multiphysics Simulation of Thermofluidic Problems (Basic Level), presented by DCE, BUET. Don't miss this invaluable learning opportunity. Register now!

WHO SHOULD ATTEND?

This short course is suitable for:

- Undergraduate and Postgraduate Students
- Engineering Enthusiasts
- Aspiring Researchers, Young Faculties
- Professionals Seeking Skill Enhancement
- Mathematician, Cross-Disciplinary Learners
- Anyone Interested in Engineering Simulation

PROGRAM OVERVIEW

Contents of the Short Course are:

- Introduction to Computational Heat Transfer
- Mathematical Modeling & Dimensional Analysis
- Introduction to COMSOL Multiphysics and Solving Benchmark Problem
- Training on Validation, Visualization and Post Processing
- Common Natural, Forced and Mixed Convection Problems inside Cavities
- COMSOL Multiphysics Simulation of Forced Convection Inside a Vented Cavity
- COMSOL Multiphysics Simulation of Mixed Convection Inside a Lid-Driven Cavity
- COMSOL Multiphysics Simulation of Natural Convection Inside an Irregular Cavity

VENUE

Directorate of Continuing Education (DCE), 3rd Floor, Institute Building, BUET, Polashi, Dhaka-1000. (**Near Dr. M A Rashid Student Hall, BUET and BUET Gymnasium**)

REGISTRATION FEE

For **Professionals** BDT **6,000/-** per Person (Tk. Six Thousand Only)
For **Full time Students** BDT **5,000/-** per Person (Tk. Five Thousand Only)
Fee includes printed lecture instructions, workshop kits, comprehensive materials, refreshments, certificates, etc.

PAYMENT

Registration Fee is to be paid in advance payable through Pay Order/Demand Draft (DD) in favor of **Director, BRTC, BUET.** or electronically deposited at - Savings **Account No. 4404034173888**,
Account Name: Director, Directorate of Continuing Education (DCE) Sonali Bank Ltd., BUET Branch, Dhaka.