Online Workshop on Mathematical Modeling and MATLAB Applications

(24th Aug. – 25th Aug., 2020)

Sponsored by

TEQIP-III (*Twinning activity*)
SLIET Longowal & NIT Uttarakhand

Organized by

Department of Mathematics
SLIET Longowal – 148106 (Punjab)
&
NIT Uttarakhand, Srinagar Garhwal, Uttarakhand – 246174

PROSPECTIVE PARTICIPANTS

This workshop is open for participants from Industries, PSUs, Academic Institutions Faculties, Ph.D. Research Scholars and Undergraduate, Post-graduate students. There is no registration fee for the workshop.

CHIEF PATRON

Prof. Shailendra Jain, Director, SLIET
Prof. Shyam Lal Soni, Director, NITUK

PATRONS

Prof. A.S. Arora, Dean Academic, SLIET
Dr. G.S. Brar, Dean Academic, NITUK

CONVENORS

Prof. Sushma Gupta, SLIET Longowal
Dr. Nitin Sharma, NIT Uttarakhand

COORDINATORS

Prof. V.K. Kukreja, SLIET Longowal
Dr. Kuldeep Sharma, NIT Uttarakhand

CONTACT PERSON

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PARTICIPATION

The registration can be done using the link:

https://forms.gle/jNWSx1HVZDM9sWKYA

Mode of Workshop: Online

Platform: Google Meet

Time: 10:00 AM onwards (Daily)

E-Certificates will be issued to participants after successful completion of the course.

COURSE OBJECTIVES

The workshop shall provide a glimpse of basic Mathematical Modeling and its applications in the interdisciplinary areas of science and engineering like chemical engineering, bio-mathematics & fluid dynamics. The participants will also be enlightened by application of MATLAB in fuzzy logic along with the basics of finite element method and its implementation using MATLAB programming.

TOPICS TO BE COVERED

The major topics to be covered in short term course are:

- Application of MATLAB Toolboxes: Fuzzy Decision Making.
- Mathematical Modeling in Chemical Engineering.
- Mathematical Modeling and its Applications in Biology.
- Mathematical Modeling of Pumping Flows in Physiological Systems.
- Mathematical Modeling for Epidemic Diseases.
- Introduction to Finite Element Method with MATLAB Programming etc.