ABOUT THE COURSE

This workshop will focus on the efficient application of simulation techniques and hybrid approaches for the optimization of engineering processes. The goal of this workshop is to exchange ideas, experiences, and research results among practitioners and researchers in the field of modelling and simulation.

- ➢ Characterize engineering systems in terms of their essential elements, purpose, parameters, constraints, performance requirements, sub-systems, interconnections and environmental context.
- ➢ Engineering problem modelling and solving through the relationship between theoretical, mathematical, and computational modelling for predicting and optimizing performance and objective.
- ➢ Develop solutions and extract results from the information generated in the context of the engineering domain to assist engineering decision making.
- ➢ Interpret the model and apply the results to resolve critical issues in a real world environment.
- ➢ Develop different models to suit special characteristics of the system being modelled.

TOPICS TO BE COVERED

- ✓ Variety of engineering system modelling and simulation methods
- ✓ Numerical and computer based solution techniques utilized in industrial and engineering environments.
- ✓ Techniques for finding solutions to these systems include: graphical, algebraic, numerical, state space, simulation and computational processes.
- ✓ Case studies in industry and engineering applications are used to illustrate the techniques and modelling concepts.

FACULTY

The course faculty includes resource persons from IITs, NITT, experts from various reputed institutions and Industries.

ELIGIBILITY:

Faculty, Scholars and Practitioners from Mechanical, Production, Instrumentation, Electrical and Computer science.

REGISTRATION:

Faculty and scholars from Academic Institutions : Rs 1000
Participants from Industries : Rs 2000
The course registration fee must be paid by DD in favour of "The Director, NIT, Tiruchirappalli-620015" and payable at SBI, NIT, Tiruchirappalli.

BOARDING AND LODGING:

Limited Boarding and lodging will be provided in the Institute on payment basis

Maximum No of participants: 30

IMPORTANT DATES:
Last date for receiving application : **20-03-2017**
Intimation of Acceptance : **21-03-2017** (By e-mail)

ABOUT THE INSTITUTE
National Institute of Technology Tiruchirappalli is a premier institute of national importance by act of parliament, governed by MHRD Government of India.

VENUE
SRM HOTEL Private Ltd.
Race Course Road, Khajamalai, Tiruchirappalli - 23

REGISTRATION FORM

Workshop on

Modeling and Simulation of Engineering Systems

23-24 March 2018

1. Name   :
2. Qualification   :
3. Designation   :
4. Department   :
5. Official Address :

Phone   :   Email   :

6. Accommodation required: Yes [   ]   No [   ]

7.   Details of DD

      Amount: DD No.:
      Date:
      Bank name & Place:

8. Signature of the Participant

DECLARATION BY THE APPLICANT

The above mentioned information is true to the best of my knowledge and belief. I agree to abide by the rules and regulations governing the AICTE-MHRD Programme. I shall attend the course for the entire duration.

Place:

ADDRESS FOR CORRESPONDENCE
Dr. S. Kumanan
Professor
Department of Production Engineering
National Institute of Technology Tiruchirappalli   620015

Telephone No. 0431-2503507/2503362   Mobile No.: 9443745705
Email: kumanan@nitt.edu / nsk@nitt.edu

NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI – 620 015

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Organised by

NIT Tiruchirappalli

Co-ordinators

Dr. S. Kumanan
Department of Production Engineering

Dr. N. Sivakumaran
Department of Instrumentation and Control Engineering