

CHIEF PATRON

Dr. Mrs. Elizabeth Verghese
Chancellor

PATRONS

Dr. Anand Jacob Verghese
Pro Chancellor

Dr. S. Ramachandran
Vice-Chancellor

TECHNICAL ADVISORY COMMITTEE

Dr. G. Ilavazhagan, Director (Research)
Dr. Baby Joseph, Dean (Research)
Dr. D. Mohan, Associate Dean (Research)
Dr. A. Anitha, (Head of Chemical Engineering)

CONVENERS

Mr. G. Vijay Samuel, Asst. Professor (S.G)
Dr. G. Saranya, Asst. Professor (S.G)

Registration

Faculty Members, Research Scholars & PG Students: Rs. 1000/-

The registration form has to be filled and mailed to gsaranya@hindustanuniv.ac.in on/before **31st December 2017**. Fee can be paid in the form of Demand Draft drawn in favour of "Hindustan Institute of Technology and Science" payable at Chennai.

Contact Us

Conveners - Winter Workshop
Department of Chemical Engineering
School of Mechanical Sciences, JB Block
Hindustan Institute of Technology & Science
P.B. No.1, Rajiv Gandhi Salai
Padur, Chennai 603 103
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About HITS

Hindustan Institute of Technology & Science started in the year 1985, was conferred the "University Status" by University Grants Commission (UGC), Government of India in the year 2008. Hindustan University is one of the leading premier universities in India, reputed for its experienced faculty and excellent infrastructure facilities for curricular and extracurricular activities. The institution is driven by the virtuous vision of the Founder Chairman, Late Dr. K.C.G. Verghese "To Make Everyman a Success and No Man a Failure", and is devoted to the excellence in research, teaching and learning. The Institution is endowed with able faculty and research personnel with wide ranging experience in Academia and Industry. Student community comprises of students across India and also International students from more than 28 countries. Hindustan University's intense focus on internationalization has led to a long-standing academic collaborations and MoUs with renowned partner institutions and global organizations. Hindustan believes in benchmarking with the best and ensures that highest standards of quality are implemented across our campuses. The institution has been consistently ranked among the best institutions in the country and aspires to emerge into a global educational institution.

About the Department

The Department of Chemical Engineering under the School Of Mechanical Sciences was established in 2009 and offers Bachelor of Technology Programs in Chemical Engineering and Biotechnology. The department is multi-disciplinary with faculty expertise ranging from Process Engineering, Biotechnology, Polymer Science, Nano Technology and Environmental Engineering. The department has well established laboratories as well as good infrastructure for carrying out research.

CO-PATRONS

Mr. Ashok Verghese
Director

Dr. Aby Sam
Director

Dr. Pon Ramalingam
Registrar

Dr. N. Vasudevan
Dean (Academics)

ORGANISING COMMITTEE

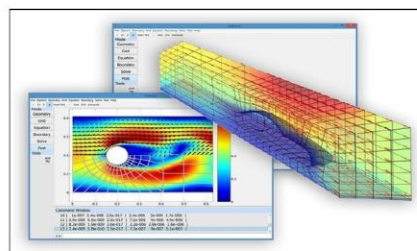
Dr. N. Kavitha, Associate Professor
Dr. D. Jini, Asst. Professor (S.G)
Ms. Melny Lisa Paul, AP
Mr. D. Ashok Kumar, AP
Ms. Durpa Raia, AP



A Winter Workshop
on

Modeling and Simulation for Process Engineers

January 9-10, 2018



Organized by

Department of Chemical Engineering
Hindustan Institute of Technology &
Science (HITS)

About Winter Workshop

The workshop will focus on training the faculty, research scholars & PG students of various institutions working in Chemical, Civil, Mechanical Engineering on the basics of modeling and simulation. Modeling is the process of producing a model; a model is a representation of the construction and working of some system of interest. A model is similar to but simpler than the system it represents. One purpose of a model is to enable the analyst to predict the effect of changes to the system. On the one hand, a model should be a close approximation to the real system and incorporate most of its salient features. On the other hand, it should not be so complex that it is impossible to understand and experiment with it. A good model is a judicious tradeoff between realism and simplicity. Simulation practitioners recommend increasing the complexity of a model iteratively. An important issue in modeling is model validity. Model validation techniques include simulating the model under known input conditions and comparing model output with system output. Simulation is used before an existing system is altered or a new system built, to reduce the chances of failure to meet specifications, to eliminate unforeseen bottlenecks, to prevent under or over-utilization of resources, and to optimize system performance. The outcome of this FDP will be understanding the concept of modeling and application of simulation techniques in research and academics.

Program Schedule:

Day 1:

Mathematical Modeling and Simulation	Prof. S. Pushapavanam , Institute Chair Professor Dept. of Chemical Engineering IIT Madras
Modelling using Mathematica	Mr. Dinesh , Research Scholar Dept. of Chemical Engineering IIT Madras
Application of Computational Fluid Dynamics (CFD) In Chemical Engineering	Dr. S. Balakrishnan , Sr. Research Engineer Saint Gobain Research India Pvt. Ltd.

Day 2:

Matlab® Session -I	Dr. S. Sam David , Research Assistant Professor Dept. of Chemical Engineering SRM Institute of Technology and Science
Matlab® Session-II	Ms. Durga Raja Assistant Professor Dept. of Chemical Engineering HITS, Chennai
Hands on Session on Matlab®	Dr. S. Sam David & Ms. Durga Raja