About MNIT

The Institute was established in the year 1963 with the name as Malaviya Regional Engineering College, Jaipur, as a joint venture of the Government of India and the Government of Rajasthan. Subsequently, on June 26, 2002, the college has been given the status of National Institute of Technology and on 15 August 2007, proclaimed as Institute of National Importance through the Act of Parliament. The Institute is fully funded by Ministry of Education (Shiksha Mantralaya), Government of India. More than 12,000 students have already been graduated since its establishment.

About Department

The Department of Chemical Engineering was commenced in the year 1988. The PG programmes of M.Tech. and Ph.D. in Chemical Engineering was started in year 2006 and 2004, respectively. The current sanctioned strength of B.Tech. and M.Tech program is 115 and 25, respectively. The department is well equipped with good undergraduate and research laboratories. The department aims to provide students with a balance of intellectual and practical expertise that enables them to serve the worldwide chemical industry as well as the society as a whole. The curriculum has been designed to meet the programme goals and objectives that lay more stress on learning under the guidance of a vibrant and highly qualified faculty.

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Five Days AICTE Training and Learning Online Faculty Development Programme

On

SYSTEMS ENGINEERING

(1st – 5th February, 2021)

Sponsored by

AICTE, New Delhi under ATAL Academy

ORGANIZED BY

Department of Chemical Engineering
Malaviya National Institute of Technology
Jaipur – 302017

In Association with

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

About The FDP

Steady State Process simulation plays a significant role in the design and operation of Industrial processes. Process simulators, optimizations and modeling techniques, different controllers, etc are valuable and powerful factors which can be used to effectively teach/convey/clarify the fundamental concepts of almost all the courses of most of the engineering streams. They are widely used in process industries for the designing of new plants, de-bottlenecking, optimizing the performance of units, and even in planning for day to day production changes. This FDP is mainly aimed at providing basic to advanced label knowledge on the above mentioned topics as well as rich hands on experience to the participants on the use of popular process simulators currently used in the process industries to solve the problems. The lecture sessions are carefully designed to give the necessary theoretical background of the topics. Each exercise includes problems drawn from almost all the core areas to refresh basics and to understand the practical application of the concepts. Real life examples from industry will be demonstrated as case studies at end of each session followed by assessment quiz and feedback. The participants would get great benefit from the program in his research and further study. The course might be helpful in sparking collaborations among institutions.

Course Objectives

1. Acquiring knowledge of finite difference element method's application in systems engineering.
2. Understanding predictive, model based and multivariable control strategies in systems engineering.
3. Ability to demonstrate artificial intelligence and machine learning based approaches in systems engineering.
4. Gaining knowledge of process simulation and simulators with partitioning and tearing.

Targeted audience

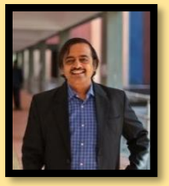
The programme is open to the faculty of AICTE approved Institutions, Research Scholars, PG Scholars, Participants from Government (Bureaucrats/Scientists), Participants from Industry and staff from host Institute.

How to Register

- There is no Registration Fee.
- Registration will be done on First Come First Serve basis.
- Register online using the link below: https://atalacademy.aicte-india.org/signup
- Maximum 200 candidates will be invited to participate in the FDP.
- Last Date of Registration: 25th January, 2021

Resource Persons

Applications of Finite Element Method
Dr. Tanmay Basak,
Professor, Dept. of Chemical Engg.
IIT Madras



AI and ML based Approach in Chemical Engineering
Dr. Ravindra Gudi,
Professor, Dept. of Chemical Engg.
IIT Bombay

Multivariable, Predictive and Model based Control
Dr. A Seshagiri Rao
Associate Professor, Dept. of Chemical Engg.; NIT Warangal

Introduction to Process Simulation and Simulators
Dr. Sarath Babu Anne
Professor, Dept. of Chemical Engg.
NIT Warangal

System Modeling
Dr. Rajesh Kumar
Professor, Dept. of Electrical Engg.
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