5-days Online FACULTY DEVELOPMENT PROGRAM (FDP)
ON
Simulation as a Pedagogical Aid in Chemical Engineering (SPACE)

October 13th to 17th 2025

Organized by

Department of Chemical Engineering

National Institute of Technology Warangal

in association with

CENTRE FOR TRAINING AND LEARNING, NIT WARANGAL

(Established under the PMMMNMTT Scheme, Ministry of Education, Govt. of India)

Preamble:

The Centre for Training and Learning (CTL) has been established at NIT Warangal with grants from the Ministry of Education, through its scheme *"Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)".* Under this Scheme, a separate building has been built exclusively for the CTL activities, with the state-of-art training facilities that include a studio for production and uploading of video and e-lectures on various subjects of higher education, training halls to train the faculty in various theme areas of Science and Technology, humanities and social sciences, linguistics and communication skills, pedagogy and cognition evaluation, etc. among others. One of the important objectives of the Centre is to conduct training programmes for the aspiring, newly inducted and in-service faculty in science, engineering, social sciences disciplines in higher education. Other activities of the CTL include preparation of print and e-learning materials, offering on-line courses, curriculum design, carrying out research in educational technology and pedagogy and integrating with ICT into teaching-learning process. The CTL has special programmes of training for the marginalized and women-faculty.

About FDP:

Steady State Process simulation plays a significant role in the design & operation of a chemical process. Process simulator is a powerful tool, which can be used to effectively teach/clarify the fundamental concepts of almost all the core courses in chemical engineering. This FDP is mainly aimed at providing rich hands on experience to the participants on the use of process simulation software such as aspenONE in addressing Chemical Engineering problems encountered in almost all core courses. The lecture sessions are carefully designed to give the necessary theoretical background. The laboratory exercises include problems drawn from almost all the core areas.

The FDP will be conducted online from 6.00 to 10.00 pm every day for 5 days. All the participants need to have a laptop/desktop with good internet connectivity.

Major Course Contents:

- Introduction to Process Simulation and Simulators;
- Degrees of Freedom;
- Property models;
- Partitioning & Tearing;

Practical sessions include:

- Thermodynamic property estimations
- Simulation of simple units
- Design Specification and Sensitivity Tools
- Heat Exchanger, Reactor & Distillation Column Design
- Material and Energy Balances
- Optimization.

Faculty conducting this program:

The programme will be conducted by the faculty members from NIT Warangal.

Registration Fee Particulars:

Faculty	**Rs.1180/-**
Students / Research Scholars	**Rs. 590/-**
Industry Participants	**Rs.2360/-**

Registration fees includes GST. Participants need to pay the registration fees online using thefollowing details

Online Transfer Details

Account Name: **HEAD, CTL NITW**
Account No: **40376545007**
IFSC: **SBIN0020149**
Bank and Branch: **SBI, NIT(REC) Warangal**

How to apply:

Participants are required to fill the details using the following link: https://forms.gle/FcrimCC5Hx1pNEQT7

Selection Criteria:

Selection will be done based on first-come-first-serve to a minimum number of 50 (fifty) Faculty/industry participants. Additionally, students/PhD scholars are allowed to participate. The list of selected participants will be intimated through e-mail. In case the candidate is not selected, the registration amount will be refunded. Candidates will be issued certificates on successful completion of the course.

Important dates:

Last date (Application)	6th October 2025
Selection List by E- mail	10th October 2025

About NIT Warangal:

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate and 31 post-graduate programs besides doctoral programs. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state-of-the-art library, seminar halls, guest houses and research laboratories.

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APPLICATION FORM

1. Name :
2. Designation :
3. Institution :
4. Email :
5. Mobile No :
6. Payment Details
   Reference No:
   Amount:
   Bank:
   Date:
7. Address for Correspondence:
8. Educational Qualification:
9. Subjects taught so far:
10. No. of refresher courses/workshops attended:
11. Experience (in years):
12. Teaching: Research: Industry:

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator in case, I am unable to attend the course.

Date:
Place: **Signature of the Applicant**

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. .....is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on **"Simulation as a Pedagogical Aid in Chemical Engineering (SPACE)"**, sponsored by the Centre for Training and Learning (CTL) during 13th to 17th October, 2025 at NIT Warangal.

Signature of Head of Institution (with seal)

All the delegates are requested to upload the scanned copies of filled-in Application form along with payment receipt as a single PDF file using the following link.

Link: https://forms.gle/FcrimCC5Hx1pNEQT7

For more details about CTL of NIT Warangal, please visit:
https://nitw.ac.in/ctlcenter

For more details about the FDP, please contact the Coordinators: Prof. A. Sarath Babu and Dr. Praveen Kumar Bommineni

or

Prof. M. Sailaja Kumari
Professor of EE and Head, CTL
Phone: 0870 2462685
Email: ctl_hod@nitw.ac.in

Coordinators

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