



ONE WEEK NATIONAL LEVEL WORKSHOP ON ASPEN PLUS AND MATLAB FOR CHEMICAL AND PROCESS INDUSTRIES

26th to 31st October 2026



CHIEF PATRON

Sri. N. Subash, President, CBIT

PATRON

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HOD, Chemical Engineering

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Dr. S. Anil Kumar, Assistant Professor

Dr. Snigdha Saha, Assistant Professor



Organized by

Department of Chemical Engineering
Chaitanya Bharathi Institute of Technology(A)
Hyderabad, 500075, Telangana

www.cbit.ac.in

REGISTRATION

Participants must pay ₹300 (CBIT participants) and ₹400 (non-CBIT participants) via the QR code below and register using the link provided.

Registration link:

<https://forms.gle/qswEksFSoyfFriAj8>



RESOURCE PERSONS



Prof. A. Sarath Babu
Chemical Engineering, NIT
Warangal



Prof. B. Praveen Kumar
Chemical Engineering, NIT
Warangal



Prof. T. Sunil Kumar
Chemical Engineering, IIT
Tirupathi

TARGETED PARTICIPANTS:

Students, faculty members, and industry professionals from Chemical Engineering and allied engineering branches are eligible to participate in this course. Enrollment is limited to 50 participants.

MODE OF CONDUCT: offline mode

CERTIFICATION:

Certificates will be issued to participants who attend all the sessions of the program.



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ABOUT CBIT

Chaitanya Bharathi Institute of Technology (CBIT), established in 1979, is a premier engineering institute in Telangana and Andhra Pradesh. Founded by eminent visionaries from diverse fields, CBIT is committed to providing quality engineering and management education. The institute offers 12 UG and 10 PG programs and has produced more than 25,000 graduates serving across India and abroad. CBIT is accredited by NAAC with an A++ Grade, with various programs accredited by NBA–AICTE, and has been UGC autonomous since 2013–14. The institute provides a student-centric academic environment supported by experienced faculty, modern laboratories, libraries, sports facilities, and a serene 50-acre campus. Through academics, research, projects, industry interaction, and extracurricular activities, CBIT continues to develop skilled professionals and contribute to engineering education and innovation.

ABOUT THE DEPARTMENT

Established in 1995, our institute's Department of Chemical Engineering has become a prestigious choice for aspiring chemical engineers. Initially enrolling 40 students, the program expanded to accommodate 60 students by 1997. Accredited by the NBA since 2004 and consistently reaccredited in 2008, 2012, and 2017, the department achieved Tier I accreditation in 2025. Our graduates pursue diverse career paths, including placements in multinational companies, academia, research, higher studies in India and abroad, and entrepreneurship. The department ensures holistic development through co-curricular activities, seminars, industrial visits, and workshops. Collaborations with the Biotechnology, Chemistry, Mathematics, and Physics departments under the Centre of Life Sciences Research umbrella promote interdisciplinary research. Additionally, our energetic staffs actively engage in institute-level initiatives, fostering a vibrant academic environment.

ABOUT THE WORKSHOP

The objective of a one-week workshop on Aspen Plus and MATLAB bridges core chemical engineering theory with modern industrial practice. Training equips engineers to simulate steady-state flowsheets, solve complex differential equations, optimize plant yields, and design advanced process control systems virtually before physical implementation. The course is designed for students, faculty, and industry professionals in R&D and Plant Operators. It structures learning into three phases: Foundations, Applied Engineering, and Advanced Design. This workshop will also cover real-world case studies and practical exercises, ensuring students learn to apply their knowledge effectively. By mastering this tool, participants will be well-equipped for process design, plant operations, and optimization roles in leading industries. The knowledge gained from this training will be particularly beneficial for those looking to work in energy management, sustainability, and industrial operations. By participating in this program, students will gain a competitive edge in the job market with skills that align with modern industry needs.

CONTACT US

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Last Date for Registration: 19th October 2026

WORKSHOP SCHEDULE

Day 1:

Solving Material and Energy balances governed by a linear/nonlinear set of equations; time-dependent lumped-parameter models governed by ODEs.

Day 2:

Spatio-Temporal Processes like transient heat conduction in single/dual phases modeled by PDEs and few other applications of MATLAB solver modules/ inbuilt functions.

Day 3:

Introduction to Aspen Plus, Thermodynamic property methods.

Day 4:

Modeling and setting up equipment: Pumps, Valves & Heat Exchangers.

Day 5:

Simulating stoichiometric and kinetic reactors, flash drums, and absorption or distillation columns.

Day 6:

Sensitivity Analysis for one case study.

GENERAL INFORMATION

Participants will have access to the on-campus canteen facility during the workshop.