IMPORTANT GUIDELINES

Faculty members of AICTE approved institutions, Research scholars, PG scholars, Participants from Industry and staff of host institutions are eligible to apply for the FDP.

IMPORTANT DATES:

Last date for registration	3rd Jan 2026
Date of intimation	4th Jan 2026
Spot registrations	5th Jan 2026

EVENT DETAILS

All the sessions will be conducted offline. There will be Inaugural ceremony, 10 Technical sessions, test/quiz and a Valedictory.

REGISTRATION: ₹300 for Non-CBIT staff (pay via QR code); Free for CBIT staff.

Registration form:
https://forms.gle/KmzQdJfdgqi1zm1P8

CHIEF PATRON

Sri N. Subash

President, CBIT

PATRON

Prof. C. V. Narasimhulu

Principal, CBIT

CONVENER

Prof. M. Mukunda Vani

HoD, Chemical Engineering

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Dr. P. Madhuri, Asst. Professor

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ONE WEEK NATIONAL FACULTY DEVELOPMENT PROGRAMME

ON

Smart and Sustainable Engineering Practices Using Artificial Intelligence for SDG Attainment

5th to 9th January 2026

Organized by

Department of Chemical Engineering and Indian Institute of Chemical Engineers, Hyderabad Regional Centre

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

www.cbit.ac.in

ABOUT CBIT

Established in 1979, Chaitanya Bharathi Institute of Technology (CBIT) is the premier engineering institute in Telangana and Andhra Pradesh. Founded by visionaries from diverse fields, including engineering, medical, legal, and management, CBIT aims to provide top-quality engineering and management education, addressing the nation's need for skilled engineers and management professionals.

Over four decades, CBIT has become a coveted destination for students aspiring to excel in engineering and management, educators seeking fulfilling careers, and corporations searching for well-rounded engineers. The institute's rigorous academic standards, industry-aligned teaching methods, research projects, and consultancy practices have solidified its identity in technical education, earning it the top rank among private engineering colleges in the Telugu-speaking states. CBIT's commitment to holistic education is evident through its diverse academic, practical, co-curricular, and extra-curricular programs, fostering multi-skilled personalities and future leaders. With state-of-the-art facilities, including labs, libraries, sports amenities, and a serene 50-acre campus, CBIT continues its relentless pursuit of academic excellence nationally and internationally, making it a leader and innovator in engineering higher education.

ABOUT 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. With advanced laboratories and MoUs with leading industries, the department undertakes funded projects from organizations like Sun Pharma, MSN Laboratories, and IIChE. Faculty and students actively pursue multidisciplinary research with publications in reputed journals.

ABOUT THE FDP

This FDP provides a focused platform for faculty and researchers to explore the role of Artificial Intelligence in enabling smart and sustainable engineering aligned with the UN SDGs. It emphasizes AI-driven process design, energy and resource optimization, advanced materials, and environmental engineering through expert lectures and interactive sessions, with contributions from six eminent experts from CSIR–IICT, IITs, BITS, international academia, and the University of Cambridge.

Objectives: To equip participants with AI tools and techniques for developing sustainable engineering solutions aligned with the UN SDGs.

Outcome: Participants will gain the ability to apply AI/ML and optimization methods to real-world engineering problems and enhance research and teaching practices.

Topics Covered:

AI fundamentals; ANN-based process modelling; ML for SDGs; optimization in sustainable engineering; AI-enabled hydrogen production; and physics-informed AI/ML for hydrogen storage systems.

RESOURCE PERSONS

Dr. Ch. Venkateshwarlu, IICT

Prof. Kishalay Mitra, IITH

Mr. Serish Gandikota, University of Cambridge

Prof. Arnab Dutta, BITS Hyd

Dr. Reddi Kamesh, IICT

Dr. Ravi Gujjula, ICFAI group

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