Online Short Term Course (e-STC)
On

"Carbon Capture, Utilization and Storage for Sustainable Development (CCUSSD-2026)"

January 02-06, 2026

An Initiative of

National Institute of Technology Hamirpur

Hamirpur, Himachal Pradesh, India

Organized by

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About the Institute

National Institute of Technology Hamirpur, (HP) is one of the thirty one NITs of the country, established in 1986 as Regional Engineering College, as a joint and cooperative enterprise of the Govt. of India and Govt. of Himachal Pradesh. The goals of the institute as embodied in the logo are truly remarkable in their scope of vision. The college provides Undergraduate, Postgraduate and Doctorate Education in Engineering, Sciences & Humanities; fostering the spirit of national integration among the students, a close interaction with industry and a strong emphasis on research, both basic andapplied.

About Department

The Department of Chemical Engineering was established in the year 2013, with a mission to impart high quality engineering education and to mould the students to meet the ever growing demand of technical manpower in the area of Chemical Engineering. The department offers four years B. Tech program in Chemical Engineering, M.Tech. Program in Chemical Engineering (started from July, 2020), and Ph.D. program. The department has a strong core curriculum complemented by electives in the important emerging areas of Chemical Engineering. The department comprises of eleven different laboratories for the undergraduates catering to the needs of the curriculum. In addition, analytical instruments, computer facilities and research laboratories for the postgraduates and doctoral resources are already in place. All the faculties are highly qualified and well dedicated to teaching and research in various fields of chemical engineering as well as in different interdisciplinary areas of engineering.

Objectives and Scope

The Online Short Term Course (e-STC) on Carbon Capture Utilization and Storage for Sustainable Development (CCUSSD-2026) imparts a thorough grasp of CCUS principles, technologies, and applications for curbing GHG emissions. It empowers professionals, researchers, and policymakers to engage adeptly in CCUS relevant projects. This e-STC on Carbon Capture Utilization and Storage for Sustainable Development (CCUSSD-2026) provides participants with a comprehensive understanding of the principles, technologies, and applications of CCUS in mitigating greenhouse gas (GHG) emissions and addressing climate change. By converting CO_2 into useful chemicals will lead to value addition to waste materials. Furthermore, this e-STC course aims to equip professionals, researchers, and policymakers with the knowledge and skills necessary to effectively engage in CCUS technologies and initiatives. Overall, this e-STC will be very beneficial to all the participants including students and researchers and industrialists from both the science and engineering streams as the CCUS technologies helps in addressing global climate change and achieving net-zero emissions.

The e-STC will also cover the basics and advanced research aspects of the emerging areas as follows;

- Combustion, and CO_2 from different sources
- Post-combustion capture
- Capture by Oxy-fuel Combustion
- Pre-combustion capture
- Carbon Dioxide Utilization
- Carbon negative technologies
- Geological Carbon Storage
- CO_2 pollution and waste disposal
- Novel Materials for CO_2 Capture
- CO_2 Utilization in Products
- CO_2 Storage and Energy Production
- CO_2 Transport and Storage Infrastructure
- Emerging Relevant Areas of CCUS

Targeted Participants

Faculty from science/engineering institutes, universities, research scholars, UG/PG/PhD students, and other educational institutes and employees of the industries.

Number of Participants

Number of participants is limited for this webinar. Application will be accepted on ***first- cum-first serve basis***.

Resource Persons

The course will be taught by the faculty members and scientists of IITs/NITs/CFTIs/Industry/etc. Experts from other reputed academic institutions will be invited to share their latest research findings with the participantson Carbon Capture Utilization and Storage (CCUS).

Certificate

e-Certificate will be issued to the participants having attendance ≥ 75% and after submitting the feedback form on successful completion of this online short-term course (e-STC).

Registration Fee (Non-Refundable) Details

Participants	Amount (in Rs.)
Participants from Academia/R&D Labs	500
Students (UG/PG/PhD)	200
Participants from Industries	1000
Participants from NIT Hamirpur	Nil

Registration is compulsory for all the delegates. Participants should have 75% attendance.

How to apply

The interested candidates must deposit the registration fee through SBI collect with the following procedure;

- ✓ Go to SBI collect and choose Himachal Pradesh as state of Institution and type of institution as educational institute
- ✓ Choose NIT Hamirpur from the Name of the institutions and Select payment category as **"WORKSHOP FDP STC CONFERENCE"**
- ✓ Generate the payment slip and attached it with the registration form available at the following link;

Registration Link:

https://forms.gle/vtaEWJxLuSmu8idv6

Application in the prescribed format via above link must reach to the coordinators on or before **December 31, 2025.**