

Who should attend?

- Engineering and Science Students and Graduates
- Faculty Members and Research Scholars
- Industry Professionals
- Sustainability Engineers and Consultants

Core Competencies

- Carbon Capture: Design and operation of reactors for carbon capture using amine solvents
- Carbon Mineralization: Pathways for CO₂ capture using alkali solvent for industrial utilization.
- Advanced Hydrogen Production & storage: Green hydrogen generation through Electrolysis and MOF-based catalytic systems
- Biomass & Bioenergy: Thermochemical conversion via Pyrolysis
- Utilizing gas hydrates in bulk and porous media for environmental remediation and long-term carbon storage.
- Enhanced oil Recovery and Geological CO₂ storage

Expert Profile

- Prof. Jitendra Sangwai, Dept of Chem Engg, IIT Madras
- Dr. Ullas Krishnan J N, Senior Manager, Dalmia Cement Bharath Ltd.
- Mr. Adil Moideen, Deputy Manager ESG and Operation excellence, Peekay Steel Castings Private Ltd.

Registration Details

Last date of registration: 23 March 2026

- Registration Link:
<https://forms.gle/wzpbQJn6nT3mhon56>
- UPI ID for payment: wdidt.226@sbi

Registration Fee:

- Students—1000 INR
- Faculty — 1800 INR
- Industry— 3500 INR

IChE members eligible for 25% off!!!

Contact Information:

Chairperson, Centre for Sustainable Technologies,
NIT Calicut, Email: chair.cst@nitc.ac.in
Mobile: +91 8138829477

3-Day Workshop on

Workforce Development for Industrial Decarbonisation Technologies

25-27 March 2026

Venue: CHED Seminar Hall

Organised by



CENTRE FOR
SUSTAINABLE
TECHNOLOGIES



About the workshop

As India pursues a 45% reduction in GDP emissions intensity by 2030 and Net Zero by 2070, the industrial landscape is undergoing a massive transformation. The Union Budget 2026's ₹20,000 crore allocation for Carbon Capture and Utilization guarantees a surge in green jobs across the steel, cement, refinery sectors and other process industries.

This workshop bridges the gap between core engineering curricula and transformative technologies such as Carbon Capture, Utilization and Sequestration, Green Hydrogen, and Biomass fuels. By blending theoretical foundations with practical insights into design and operation, we empower students and engineers to lead India's sustainable industrial transition and secure high-impact roles in the evolving global workforce.

The Centre for Sustainable Technologies (CST) at NIT Calicut is a multidisciplinary hub dedicated to engineering and advancing the innovations essential for a global transition toward a sustainable future.