

**Two Weeks
Faculty Development Programme
(Hybrid Mode)
on**

**Bridging Materials, Energy and Environment for
Sustainable Development Goals
(BEEMS- 2025)
(Dec. 8- Dec. 19. 2025)**



ORGANIZED JOINTLY BY

**Department of Chemical Engineering
AND
Department of Electronics & Communication
Engineering**

**Sant Longowal Institute of Engineering & Technology
(Deemed to be University under MoE, Govt. of India)
Longowal, Distt. Sangrur-148106 Punjab (India).
Website: www.sliet.ac.in**

Patron : Prof. Mani Kant Paswan, Director
Co-Patron : Prof. A.S. Shahi Dean (Academics)

Conveners : Prof. H.R.Ghatak (HOD, CHE)
Prof. Ajay Pal Singh (HOD, ECE)

Coordinators: Dr. Subita Bhagat (CHE)
Dr. Alka Singla (ECE)

INSTITUTE

Sant Longowal Institute of Engineering & Technology (SLIET), Deemed to be University, has been established and funded by MOE (formerly MHRD), Government of India in 1991. To provide technical education in emerging areas of Engineering and Technology. The institute caters to the technical manpower requirements at various levels by adopting a concept of a modular system in imparting professional education with an emphasis on practical training in the industry. The study programmes include various courses at Integrated Certificate and Diploma, Degree, M.Tech & Ph.D levels in 11 departments of Engineering, Science and Technology. The Institute has come up beautifully in a sprawling green area of 451 acres, with many topographically featured picturesque landscape and presents spectacle of harmony and natural beauty, embedded with all the amenities required for a complete township.

LOCATION AND WEATHER

The Institute is located at Longowal village and is connected by road with Sangrur (18 km), Sunam (18 km), Barnala (30 km), Patiala (80 km), Ludhiana (90 km) and Chandigarh (150 km). The nearest railway stations are Sangrur (18 km), Sunam (18 km), Barnala (30 km) and Diari (35 km). The nearest airport is at Chandigarh. The temperature in the month of December is 7°C to 15°C

DEPARTMENT OF CHE & ECE

• The departments have all core labs of Chemical Engineering and Electronics & Communication Engineering at ICD, UG & PG level. All labs are upgraded to fully functional for multi-usage purposes. Well equipped research labs cater to the needs of full time and part time research scholars. Fully functional labs in the fields of Chemical Engineering & allied technologies are serving the special need of industries in terms of consultancies and special interests of students to undertake projects & research work.

- Integrated Certificate-Diploma Program
- B.E. (Chemical Engineering and Electronics & Communication Engineering)
- M.Tech. (Chemical Engineering and Electronics & Communication Engineering)
- Ph.D. Programme

ABOUT THE FACULTY DEVELOPMENT PROGRAMME

Administrative and financial approval for two weeks Faculty Development Programme on "Bridging Materials, Energy and Environment for Sustainable Development Goals "in the hybrid mode under GIA from 08/12/2025 to 19/12/2025 is proposed to be organize by the department of Chemical Engineering and Electronics & Communication Engineering. This FDP shall be fruitful to the faculty members from AICTE-approved institutions, practicing engineers, research-scholars, under-graduates, post-graduates students and industry persons from government departments and Industries to update and brush up their technical skills. A tentative list of Technical Experts/Resource Persons for sharing their knowledge and research experience with the participants for this FDP is attached. This Faculty Development Programme on "Bridging Materials, Energy and Environment for Sustainable Development Goals (BMEE)" aims to provide insights into sustainable materials, renewable energy, and environmental conservation. It will bring together experts and participants to explore innovative approaches, interdisciplinary research, and practical strategies aligned with the UN Sustainable Development Goals.

COURSE CONTENTS

- Introduction to Sustainable Development Goals.
- Advanced and eco-friendly materials for sustainability.
- Renewable energy technologies.
- Energy storage systems and efficiency strategies.
- Environmental pollution and control technologies.
- Waste management and circular economy.
- Climate change mitigation and adaptation.
- Green manufacturing and sustainable industrial practices.
- Life cycle assessment and sustainability metrics.
- Government policies and global initiatives.
- Industry-academia collaboration and case studies.

RESOURCE PERSONS

Renowned experts and researchers from premier Institutions and industries will deliver expert lectures. Faculty with expertise in energy, environment, sustainable materials and allied fields will also be involved in this FDP.

ELIGIBILITY:

This interdisciplinary course is open for participants from Faculty & staff members, Research Scholars from Institutes/ Universities, Industry personals and under graduate students.

HOW TO APPLY

Interested participants should compulsorily register for the FDP through following link on or before the last date : Nov. 30, 2025.

Registration is required for participating in this course. Applicants can fill registration form at <https://forms.gle/bvxn37hyqkiUWsB19>

ABOUT FDP

The Faculty Development Programme (FDP) on Bridging Materials, Energy and Environment for Sustainable Development Goals (BMEE) is designed to provide a holistic understanding of the interconnection between materials, energy, and environment in the context of sustainable development. The programme focuses on enhancing the knowledge base of faculty members, research scholars, and professionals through expert lectures, discussions, and hands-on insights from leading academicians and industry practitioners.

By bringing together experts and participants from diverse backgrounds, this FDP seeks to strengthen academic-industry linkages and inspire innovative ideas that contribute towards building a greener and sustainable future and harnessing the capabilities of sustainable materials to solve real-world challenges. Case studies will illustrate successful sustainable materials projects and initiatives. Participants will learn about policy frameworks and incentives that promote the adoption of sustainable materials. The course will also address environmental challenges such as climate change, pollution, and resource management. Explore sustainable and renewable energy solutions for future needs. The importance of community involvement and stakeholder engagement in fostering an interdisciplinary approach to research and teaching aligned with the UN Sustainable Development Goals. Participants will have the opportunity to explore the importance of materials innovation for eco-friendly technologies.

MODE OF CONDUCTION

The training program will be conducted in hybrid mode. The soft copy of study material, PPT's will be shared with the participants. Certificates will be given to the participants.

REGISTRATION FEE :

Faculty/ staff: Rs. 250(exempted for SLIET employees)
Research Scholars, Post graduate (PG) & Under graduate (UG) students: Nil
Industry person : Rs.1000



IMPORTANT DATES

Last date for registration: Nov. 30, 2025
Notification of selection: Dec. 4, 2025

ADDRESS FOR CORRESPONDENCE

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