



International Conference  
on  
**Sustainable Development in Chemical and Environmental Engineering  
(SDCEE-2024)**  
February 22-24, 2024

**ti**  
**THAPAR INSTITUTE**  
OF ENGINEERING & TECHNOLOGY  
(Deemed to be University)

*Organized By*

**Department of Chemical Engineering**  
**Thapar Institute of Engineering and Technology**  
**Patiala, Punjab 147004, INDIA**

*Aligned with India's National Missions*



**WASTE TO WEALTH**  
Swachh Bharat Unnat Bharat



# THE CONFERENCE

The International Conference on “Sustainable Development in Chemical and Environmental Engineering” (SDCEE-2024) holds significant relevance in promoting sustainable practices, facilitating knowledge exchange, fostering collaborations, and outreach activities. It focuses on various areas of Chemical Engineering, including Materials, Energy, Environment, Sustainable Processing, Green Technologies, etc. It emphasizes sustainable development and encourages multidisciplinary approaches to tackle field challenges. The conference offers networking opportunities, research dissemination, and publication prospects in Journals of international repute. Overall, the conference will play a crucial role in driving innovation and sustainability in chemical and environmental engineering, making it an important event for researchers and industry professionals. The conference will be held in a **Hybrid mode**, incorporating both *virtual* and *in-person* participation.

## CONFERENCE TOPICS

The conference theme is encapsulated in the following subject areas, with an openness to explore additional related topics:

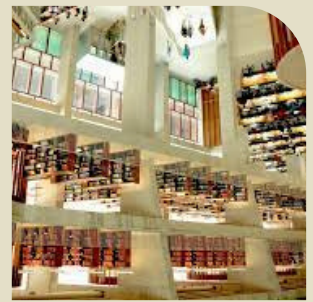
- *Chemical & Process Engineering*
- *Sustainable Environmental Solutions*
- *Advancements in Energy Engineering*
- *Materials in Engineering*
- *Modeling and Simulation of Processes*
- *Bioprocessing and Food Engineering*
- *Applied Radiation Technology*
- *AI, Machine Learning, and Data Analytics in Process Design/Optimization*

## KEY DATES

<b>Last Date for Abstract submission</b>	<b>Nov. 20, 2023</b>
<b>Notification of Acceptance</b>	<b>Oct. 01, 2023 - Dec. 31, 2023</b>
<b>Early Bird Registration</b>	<b>Oct. 01, 2023 - Dec. 15, 2023</b>
<b>Full Paper (Selected) submission</b>	<b>Oct. 15, 2023 - Jan. 15, 2024</b>
<b>Conference Date</b>	<b>February 22-24, 2024</b>

The participant has to register for the conference through the following link:  
<https://sdcee2024.thapar.edu>

# ABOUT



## THE INSTITUTE

Thapar Institute of Engineering and Technology (TIET), formerly Thapar University, is a deemed-to-be-university, in Patiala, INDIA. It was founded in 1956 by Mr. Karam Chand Thapar. Thapar Institute of Engineering and Technology (TIET) is one of India's oldest and finest educational institutions, which provides a steady source of highly skilled talent to the nation and overseas. Founded in 1956 with a campus spread across sprawling 250 acres, the institute in Patiala has been a pioneer in engineering education, research, and innovation. Our community involves ingenious minds solvers eager to make the world a better place to live in with their innovative techniques and discoveries. Rated amongst the country's top-ranked innovation-driven private universities and technical institutes, TIET has been accredited with an A+ grade by the National Assessment and Accreditation Council (NAAC). Currently, the institute is ranked 20th in the country by NIRF. Our alumni have stood out in various fields, such as business and industry, administrative and regulatory services, research and education, and social and human rights organizations. The institute is awarded a prestigious PURSE Grant of 2023.

## THE DEPARTMENT

The DST-FIST sponsored Department of Chemical Engineering at TIET offers a comprehensive and dynamic education in chemical engineering, preparing students for diverse opportunities in the field. The department's focus on research, innovation, and theory equips students with the necessary knowledge and skills to develop economical and sustainable solutions for utilizing materials and energy for the benefit of humanity. The Department's faculty is extensively engaged in research, demonstrating a commendable record of around 350 influential publications in journals indexed by the Science Citation Index (SCI) over the past decade. Furthermore, the Department has obtained substantial financial support from governmental entities for a range of research endeavors, amounting to approximately Rs. 600 Lakhs since 2015. Additionally, an infrastructure DST-FIST grant of approximately Rs. 190 lakhs has also been awarded to the Department.

## THE ROYAL CITY PATIALA

Patiala is a city in south-eastern Punjab, north-western India. It is the state's fourth-largest city. Patiala is the erstwhile princely state of Punjab, which is situated in the Malwa region. It is a judicious synthesis of a brilliant spectrum of Rajput, Mughal, and Punjabi cultures and a fine blend of modernity and tradition. It is well connected to Delhi, Ambala, and Chandigarh by rail and road. It is around 280 Km from *IGI Airport Delhi* and 60Km from *Chandigarh Airport*. **Shimla**, **Dharamshala**, **Manali**, and **Amritsar** are nearby cities of attraction.



## ORGANIZING COMMITTEE

**Prof. Bonamali Pal**, Chemistry & Biochemistry, TIET Patiala  
**Prof. B. K. Chudasama**, Physics & Material Science, TIET, Patiala  
**Prof. B. C. Mohanty**, Physics & Material Science, TIET, Patiala  
**Prof. Amit Dhir**, Energy & Environment, TIET, Patiala  
**Prof. Dwarikanath Ratha**, Civil Engineering, TIET, Patiala  
**Prof. S. S. Mallick**, Mechanical Engineering, TIET, Patiala  
**Dr. Anoop Verma**, Energy & Environment, TIET, Patiala  
**Dr. Sapna Sharma**, Mathematics, TIET, Patiala  
**Dr. Sharad Saxena**, Computer Science & Eng, TIET, Patiala  
**Dr. D. Choudhury**, Chemistry & Biochemistry, TIET Patiala  
**Dr. Shilpi Verma**, Energy & Environment, TIET, Patiala  
**Dr. Bunushree Behera**, Biotechnology, TIET, Patiala  
**Dr. Jyotsana Mehta**, Biotechnology, TIET, Patiala

## ADVISORY COMMITTEE

**Prof. Shang Dai**, University of Leeds, UK  
**Prof. Animesh Jha**, University of Leeds, UK  
**Prof. Ali Hassanpour**, University of Leeds, UK  
**Prof. Mika Sillanpaa**, Aarhus University, Denmark  
**Prof. Roop Mahajan**, Virginia Tech, USA  
**Prof S.N. Upadhyay** (Rtd.) , IIT(BHU), Varanasi, INDIA  
**Prof. Anil Verma**, IIT Delhi, INDIA  
**Prof. V.C. Srivastava**, IIT Roorkee, INDIA  
**Prof. Amit Dhiman**, IIT Roorkee, INDIA  
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**Dr. Prasun Roy**, Scientist-F, CFEES, DRDO, Delhi, INDIA  
**Dr. H.J. Pant**, Head, IRAD, BARC, Mumbai, INDIA  
**Prof. Manoj K.C. Ramteke**, IIT Delhi, INDIA  
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**Prof. G. M. Joshi**, ICT, Mumbai (Marathwada Jalna Campus), INDIA  
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**Prof. Gopinath Halder**, NIT Durgapur, INDIA  
**Dr. Raj Kumar Arya**, Dr. B.R. Ambedkar, NIT Jalandhar, INDIA  
**Dr. Arvind Kumar Gautam**, NIT Hamirpur, INDIA  
**Dr. S. Kumar**, Dy. Director, SSN Inst. of Bioenergy, Kapurthala, INDIA  
**Dr. Sunil Dhole**, CEOs, Chemdist Group of Companies, INDIA  
**Dr. Sandip Patil**, Director, E-Spin Nanotech , Kanpur, INDIA  
**Dr. Ammu Prhashanna**, Principal Scientist, Mondelez Int., NY, USA  
**Dr. Ram Chandar**, Director , Huwel Lifesciences , Hyderabad, INDIA

## KEYNOTE SPEAKERS

**Prof. Jhuma Sadhukhan**, University of Surrey, UK  
**Prof. Animesh Jha**, University of Leeds, UK  
**Prof. Fulvia Chiampo**, Politecnico di Torino | polito, Italy  
**Prof. Anil Verma**, IIT Delhi, INDIA  
**Prof. Manojkumar C Ramteke**, IIT Delhi, INDIA  
**Prof. Amit Dhiman**, IIT Roorkee, INDIA  
**Prof. Kishalay Mitra**, IIT Hyderabad, INDIA  
**Prof. Chinmay Ghoroi**, IIT Gandhinagar, INDIA  
**Prof. Rajesh Upadhyay**, IIT-BHU, INDIA  
**Prof. Girish M. Joshi**, ICT Mumbai Marathwada Campus Jalna, INDIA  
**Dr. Bhanu Pratap Singh**, CSIR-NPL, New Delhi, INDIA  
**Dr. Prasun Roy**, Scientist-F, CFEES, DRDO, Delhi, INDIA  
**Dr. H.J. Pant**, Head, IRAD, BARC, Mumbai, INDIA  
**Dr. S. Kumar**, Dy. Director, SSN Inst. of Bioenergy, Kapurthala, INDIA  
**Dr. Sandip Patil**, Director, E-Spin Nanotech, Kanpur, INDIA  
**Dr. Ammu Prhashanna**, Principal Scientist, Mondelez Int., NY, USA  
**Dr. Ram Chandar**, Director, Huwel Lifesciences, Hyderabad, INDIA

## CORE COMMITTEE

### CHIEF PATRON

**Prof. Padmakumar Nair**  
Director, TIET, Patiala

### PATRON

**Prof. Ajay Batish**  
Deputy Director, TIET, Patiala

### CHAIRPERSON

**Prof. Rajeev Mehta**  
Head, Department of Chemical Engineering  
Coordinator, TIET- Virginia Tech Center of Excellence in Emerging Materials

### CONVENER

**Dr. Avinash Chandra**  
Department of Chemical Engineering

### ORGANIZING SECRETARIES

**Dr. Sanghamitra Barman**  
**Dr. Jai Prakash Kushwaha**  
**Dr. Neetu Singh**  
Department of Chemical Engineering

### JOINT SECRETARIES

**Dr. Vivek Pawar**  
**Dr. Himali Horo**  
Department of Chemical Engineering  
Thapar Institute of Engineering and Technology, Patiala, INDIA

# REGISTRATION

The participant has to register for the conference through the following link:

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## REGISTRATION FEE\*

Faculty/Academicians (Indian)	₹ 5000
Research Scholars/Students	₹ 3000
Industrial participants	₹ 7000
Foreign Delegates	US\$ 350
Listener/ Accompanying Person	₹ 2000

*\*Registration fee includes registration kit, lunch, conference/ gala dinner and tea during the conference sessions.*

## PAYMENT DETAILS

Name of Beneficiary	Thapar Institute of Engineering and Technology
Account number	676010011622
Type of A/c	Saving
Bank Name	Kotak Mahindra Bank Ltd.
IFSC Code	KKBK0000263
Swift Code	KKBKINBB
Bank Address	Kotak Mahindra Bank Ltd. Leela Bhawan, Patiala, Punjab, India

## CALL FOR PAPERS

Abstracts are invited for both Oral and Poster Presentations. For more details, please visit

<https://sdcee2024.thapar.edu>

## CONFERENCE PUBLICATIONS

All accepted abstracts will be included in the conference proceedings. Furthermore, selected papers will be published in the *SCI/SCIE/Scopus* indexed journals such as **The Canadian Journal of Chemical Engineering (IF 2.1)** and **Chemical and Biochemical Engineering Quarterly (IF 1.5)**.

## CONTACT

*For any inquiries, please contact us at*

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**Dr. Vivek Pawar**

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