

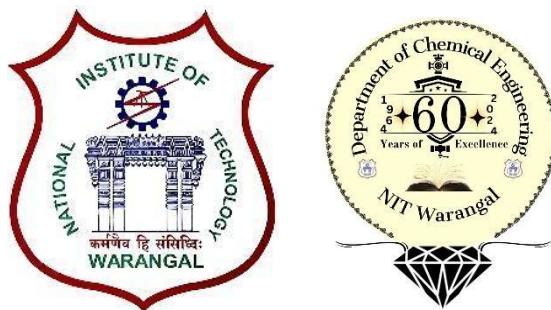
4th International Conference on
**New Frontiers in Chemical, Energy and Environmental
Engineering (INCEE - 2025)**
June 25 - 26, 2025

Conference website

<https://cms.nitw.ac.in/inceee/>



**First Call for
Registration and Participation**



Organized by

Department of Chemical Engineering

National Institute of Technology

Warangal – 506 004, Telangana State

India

- **Overview of the Conference**

This conference is the fourth in the series of International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE). The first edition of INCEEE was conducted during 20-21, March 2015, the second edition of INCEEE was conducted during 15-16, February 2019 and the third edition of INCEEE was conducted during 24-25, November 2023.

The conference invites researchers, academics, and industry professionals to explore cutting-edge advancements and innovative solutions addressing the pressing global challenges of sustainability, energy security, and environmental stewardship. The thematic areas of the conference encompass virtually all contemporary research frontiers within the realm of Chemical Engineering, including sustainable process design, renewable energy technologies, environmental remediation, and circular economy principles. INCEEE - 2025 provides a unique opportunity to engage with leading experts, showcase ground-breaking research, and contribute to shaping the future of chemical, energy, and environmental engineering. Almost all the latest research areas in Chemical Engineering have been included in the thematic areas of the conference.

In this context, the fourth edition of INCEEE-2025 is planned to provide a platform for comprehensive dissemination of knowledge and exchange of ideas in related fields among the academicians, scientists and industry people.

- **Thematic Areas**

INCEEE-2025 welcomes research papers on the following topics but not limited to:

Advanced Separations	Molecular Simulations
AI and Machine Learning	Nanotechnology
Biotechnology and Biochemical Engineering	Petroleum Refinery and Petrochemicals
Carbon Capture Sequestration & Utilization	Polymer & Polymer Composites
Circular Economy and Waste Management	Process Intensification
Computational Fluid Dynamics	Process Modeling, Simulation & Optimization
Environmental Pollution Control	Reaction Engineering and Catalysis
Food & Pharmaceutical Engineering	Renewable Energy Resources
Fuel Cells, Batteries and Supercapacitors	Smart Materials
Green Technology	Sustainable Engineering
Hydrogen Energy Generation and Storage	Transport Processes
Industrial Safety	Wastewater Treatment
Instrumentation and Process Control	

- **Call for abstracts**

Authors should submit an abstract of their original, unpublished work in not exceeding 300 words excluding figures and tables. The abstract format can be downloaded from the conference website: <https://cms.nitw.ac.in/inceee/>

The abstract must be submitted using the Google form in the link given below.
<https://forms.gle/WQqiscwm6Ldxbhrk9>

- **Important Dates:**

Abstract submission (Deadline):	15 th April 2025
Notification of Acceptance :	18 th April 2025
Full paper submission:	5 th June 2025
Early bird Registration:	20 th April 2025
Registration Deadline:	30 th May 2025
Conference date:	June 25 - 26, 2025

- **Proceedings**

All the abstracts accepted after peer review from registered participants will be published in the conference proceedings with ISBN number. Selected papers presented at INCEEE 2025 will be published in **Chemical Engineering and Technology**, **ChemSusChem**, **Journal of chemical technology and biotechnology**, **ChemEngg(MDPI)**, International journal of energy and environmental engineering as special issues after peer review process. The conference secretariat is trying to get permission from some more journals. The title of the journals will be indicated in the conference website as and when they are approved.

Best Oral paper and Poster Awards will be presented to the selected author(s) of full papers presented at the conference.

- **Registration:**

For registration, please pay the requisite registration fee (as per the details given below), and fill the online form available in the conference website under registration tab or the link given below. At least one author should register per paper.

Registration Link: <https://forms.gle/ZPG4m3pfmPtYCoE99>

Category	Early bird registration		Regular registration	
	Indian (INR)	Others* & (USD)	Indian (INR)	Others* (USD)
Academia and R&D centers	5000	150	5500	200
Industry delegates	8000	250	9000	300
PG & Research Scholars	2500	50	3000	75
Accompanying /Non-presenting Persons	1500	50	2000	75

*Foreign participants will be permitted to present their papers through online mode, upon request.

Conference registration fee includes kit, proceedings and admission to all technical sessions, lunch, conference dinner, tea/coffee and snacks. Accommodation will also be provided to the participants on a complementary basis.

Registration fee may be remitted through On-line / NEFT to the following Bank Account. Or the payment can be made through the QR code available below.

Speakers



Prof. Ajay K. Dalai
Professor,
Chemical and Biological Engineering
Department,
University of Saskatchewan.



Prof. Sarma V. Pisupati
Professor of Energy, Mineral
Engineering and Chemical
Engineering,



Prof. Chandra Shekhar Sharma
Chemical Engineering Department,
IIT Hyderabad, India



Prof. Venkatesh Meda
Chemical and Biological
Engineering, College of
Engineering, University of
Saskatchewan, Canada.



Prof. Joongjai Panpranot
Dept of Chemical Engineering,
Chulalongkorn University,
Thailand.



Prof. Tanmay Basak
Department of Chemical
Engineering,
IIT Madras, India.

• Technical Advisory Committee:

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Prof. Giridhar Madras, IIT Hyderabad	Dr. M V Reddy, Inst. of Res. Hydro-Québec, CA
Prof. Chandra Shekhar Sharma, IIT Hyderabad	

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National Institute of Technology, Warangal

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Prof. S. Vidyasagar
Head of Chemical Engineering Department

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● About the Institute and Warangal

The National Institute of Technology (NIT), Warangal is the first in the chain of 31 NITs, Institutes of National Importance established by Act of Parliament. Late Pandit Jawaharlal Nehru laid the foundation stone for this institute on October 10, 1959. The institute is well-known for its R&D, Industrial Consultancy, Continuing Education and Training programs. The institute celebrated its Diamond Jubilee during 2018.

Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 165 km from Hyderabad airport. Warangal is well connected by rail and road. National Institute of Technology, Warangal campus is 2 km away from Kazipet railway station and 12 km away from Warangal railway station.

- **About the Department**

The Department of Chemical Engineering was established in the year 1964 and celebrated its Golden Jubilee in the year 2014. The Department offers B.Tech in Chemical Engineering, M.Tech in Chemical Engineering, Systems and Control Engineering and Ph.D programs. Currently, the Department has 23 faculty members with expertise in diverse research areas. The Department has good research facilities for both experimental as well as simulation-based research. Reaching its Diamond Jubilee marks a remarkable milestone for the Department. To commemorate this 60th anniversary, a series of special events will be organized to honor its legacy and foster collaboration. Highlights include the Diamond Jubilee International Conference (INCEEE 2025), a platform for global thought leaders to address emerging challenges; a Diamond Jubilee Lecture Series featuring insights from renowned industry and academic experts; a Student Conference to showcase innovative research by budding scholars; and an Alumni Meet to reconnect graduates and celebrate shared achievements. Together, these initiatives aim to create a vibrant, inclusive celebration of the Department's enduring impact over six decades.

Program Schedule INCEEE 2025

25th – 26th June, 2025

Organized by

National Institute of Technology, Warangal - 506 004, Telangana, India

Day 01: 25th June 2025, Wednesday

Time (IST)	Event	Venue
08.00-09.30	Registration	ALC
09.30-10.30	Inaugural Function	ALC
10.30-11.00	High Tea	ALC
11.00-11.45	Plenary Speaker – 01 Prof. Ajay K. Dalai University of Saskatchewan, Canada Comprehensive investigation of Hydrogen generation from agricultural residues by Supercritical Water Gasification Process	ALC
11.45-12.30	Plenary Speaker - 02 Prof. Sarma V Pisupati, CCM, Penn State University Greener Critical Mineral Extraction from Secondary Sources for a Circular Economy	ALC
12.30-13.30	Lunch	
13.30-14.00	Keynote Speaker - 01 Prof. Chandra Shekhar Sharma Department of Chemical Engineering, Indian Institute of Technology, Hyderabad Uncovering the Potential of Candle Soot Nanocarbon for Energy Storage Applications	Bose Hall
13.30-14.00	Keynote Speaker - 02 Dr. Venkatesh Meda Chemical and Biological Engineering, College of Engineering, University of Saskatchewan, Canada Post-harvest interventions and emerging food/bio-processing for improved quality and safety – R & D snapshot	Homibhabha Hall

	OS 1-P1 Venue: Bose Hall Theme: Energy and Fuel Cell Session Chair: Dr.Srikanth Divi, Dr. Murali Mohan Seepana	OS 1-P2 Venue: Homibhabha Hall Theme: Advanced Pollution Control Session Chair: Prof. Joongjai Panpranot, Prof. Hari Prasad Reddy	OS 1-P3 Venue: Raman Hall Theme: Life Sciences and Biotechnology Session Chair: Prof. Nageshwar Rao Peela, Dr. Ashish Prabu	OS1-P4 Venue: Ramanujan Hall Theme: Chemical Engineering Session Chair: Prof.Biswajit Saha, Prof. P V Suresh	OS1-P5 Venue: Chandrashekhar Hall Theme: Water Treatment Session Chair: Dr. Mahasweta Laskar Dr. Ramya Araga
14.00- 16.30	INCEE2025114	INCEE2025056	INCEE2025052	INCEE202504	INCEE202529
	INCEE2025115	INCEE2025232	INCEE2025053	INCEE202502	INCEE202526
	INCEE2025127	INCEE2025060	INCEE2025055	INCEE202522	INCEE202529
	INCEE2025128	INCEE2025301	INCEE2025289	INCEE202511	INCEE202529
	INCEE2025130	INCEE2025227	INCEE2025045	INCEE202515	INCEE202522
	INCEE2025136	INCEE2025235	INCEE2025303	INCEE202516	INCEE202521
	INCEE2025318	INCEE2025245	INCEE2025304	INCEE202521	INCEE202522
		INCEE2025300			INCEE202530
16.30- 16.45	Tea break				

Time	OS2-P1 Venue: Homibhabha Hall Theme: Modeling and Simulation Session Chair: Dr.Anoop Kishore Vatti, Dr. Praveen	OS2-P2 Venue: Bose Hall Theme: Chemical Technology Session Chair: Dr.Tapas Palai, Dr. Ch Anil	OS2-P3 Venue: Raman Hall Theme: Biotechnology Session Chair: Dr.Thyagesh Chandran, Dr. Shyam Preugu	OS2-P4 Venue: Ramanujan Hall Theme: Sustainable Engineering Session Chair: Prof. Shirish Sonawane, Prof.S Srinath	OS2-P5 Venue: Chandrashekhar Hall Theme: Polymer and Composites Session Chair: Dr. Surya K Ghosh, Dr.Raghu Raja Pandian
16.45-18.00	INCEE2025003	INCEE2025103	INCEE2025246	INCEE202505	INCEE202510
	INCEE2025184	INCEE2025292	INCEE2025288	INCEE2025313	INCEE2025157
	INCEE2025166	INCEE2025124	INCEE2025077	INCEE2025125	INCEE2025158
	INCEE2025167	INCEE2025181	INCEE2025048	INCEE2025274	INCEE2025153
	INCEE2025185	INCEE2025305	INCEE2025066	INCEE2025076	INCEE2025154
	INCEE2025294	INCEE2025105	INCEE2025316	INCEE2025068	INCEE2025155
20.00 - 22.00	Dinner				Chemical Engineering

Day 02: 26th June 2025, Wednesday

Time (IST)	Event	Venue
10.00-10.30	Keynote Speaker - 03 Prof. Tanmay Basak Professor Department of Chemical Engineering, Indian Institute of Technology Madras Sustainable Routes on Microwave Assisted Endothermic Reaction: UG Labs-Industrial-Mathematical Basis	Bose Hall
	Keynote Speaker - 04	

	<p style="text-align: center;">Prof. Joongjai Panpranot Department of Chemical Engineering, Chulalongkorn University, Thailand Room-temperature generation of CQDs under MEA-CO₂ electrochemical system</p>	Homibhabha Hall
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10.30-10.45	Tea Break				
Time	OS3-P1 Venue: Homi Bhabha Hall Theme: Energy storage devices Session Chair: Sai Venkata Pramod Kumar, Dr. Rajesh Khanna Gaddam	OS3-P2 Venue: Bose Hall Theme: Environment Engineering Session Chair: Dr. Biswajit Saha, Prof. Annad Kishore Kola	OS3-P3 Venue: Raman Hall Theme: Materials Session Chair: Dr. Venkateshwar Rao Dugyala, Dr. Leela Manohar A	OS3-P4 Venue: Ramanujan Hall Theme: AI & ML Chair: Dr. Anoop Kishore Vatti Session Chair: Dr. Sweta Lal, Dr. Soumya Lipas Rath	OS3-P5 Online https://meet.google.com/qvt-cpih-drk Session Chair: Dr. Raj Kumar Verma, Dr. Mohit Trivedi
10.45-11.10	INVITED SPEAKER 1 Dr. Sai Venkata Pramod Kumar, CSIR- NAL Zn-Ni Plating as safer Alternative to cadmium Plating for corrosion protection	INVITED SPEAKER 2 Dr. Biswajit Saha, IIT Gandhinagar A miniaturised biosensors for real time detection of bacteria in aqueous environments	INVITED SPEAKER 3 Dr. Venkateshwar Rao Dugyala, IISER Bhoal Interfacial Engineering of Nanoparticles and Nanoflakes via Bridged Microreactors	INVITED SPEAKER 4 Dr. Sweta Lal, IISER Bhoal Experimental and Modeling Investigations in Direct Methanol/ Ethanol Fuel Cells (DMFCs/ DEFCs)	INCEE2025079 INCEE2025062 INCEE2025067
11.10-13.00	INCEE2025111	INCEE2025082	INCEE2025211	INCEE2025018	INCEE2025267
	INCEE2025207	INCEE2025086	INCEE2025213	INCEE2025024	INCEE2025070
	INCEE2025117	INCEE2025089	INCEE2025137	INCEE2025273	INCEE2025071
	INCEE2025121	INCEE2025091	INCEE2025321	INCEE2025297	INCEE2025215
	INCEE2025276	INCEE2025319	INCEE2025325	INCEE2025208	INCEE2025216
		INCEE2025268			INCEE2025099

📍 **Venues Include:** Ambedkar Learning Centre (ALC), Bose Hall, Homi Bhabha Hall, Raman Hall, Ramanujan Hall, Chandrashekhar Hall, Google Meet (online sessions)

❖ **Contact:**

Coordinators,
INCEEE-2025
Department of Chemical Engineering,
NIT Warangal, Telangana, India
E-mail: inceee2025@gmail.com
Phone: +91-870246-2627, 2611, 2647, 2622

● **General Enquiries:**

Ms. Priyanka Jagnade: 9552313143

Mr.. A Ajay Raj: 9676953112

- **Registration & Help Desk:**

Ms. Anumandla JyothiPriya: 9966835995

Mrs. L. Jyothi: 9848152916

Mrs. Vaishnavi Srinivasagopal: 9944104531

- **Hospitality & Accommodation:**

Mr. Vikas Sharma: 8551091873

Ms. Yamuna Devi: 6382423608

Mr. Sankalp Tripathi: 7318374140

Mr. Lagudu Hemanth Rejesh: 9398808437

- **Food**

Breakfast, Lunch and dinner:

For all participants, breakfast, lunch (Day1,2) and dinner (Day 1) will be arranged in the seminar hall premises at NIT Warangal and dinner will be arranged in the department of chemical engineering,NITW. Participants are requested to carry the workshop ID card/coupons to the dining area.

Complementary coffee, tea and snacks will be served during the conference hours. Additionally, you can also find coffee shops near the main building for tea, coffee, ice cream and snacks.

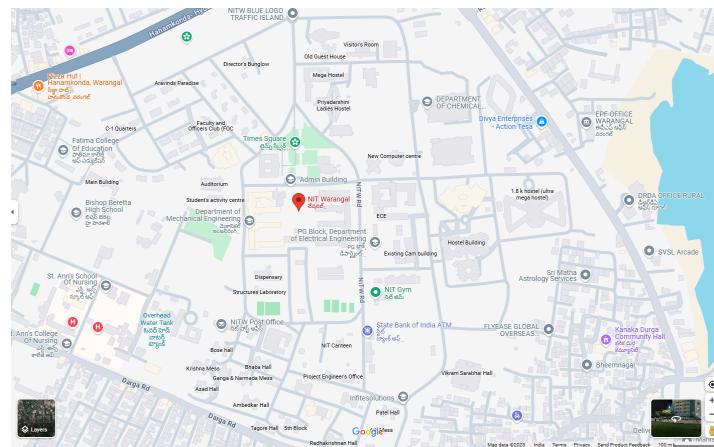
- **Useful Information**

Money: There is one ATM machine at SBI branch situated near the main gate and another inside the campus near the cricket ground.

- **Security Services:**

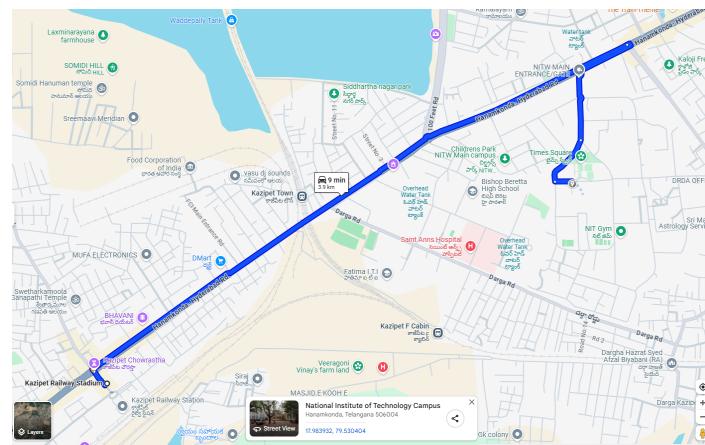
NIT Warangal is a very safe and secure place. NIT Warangal has its own security service round the clock.

- **Location:**

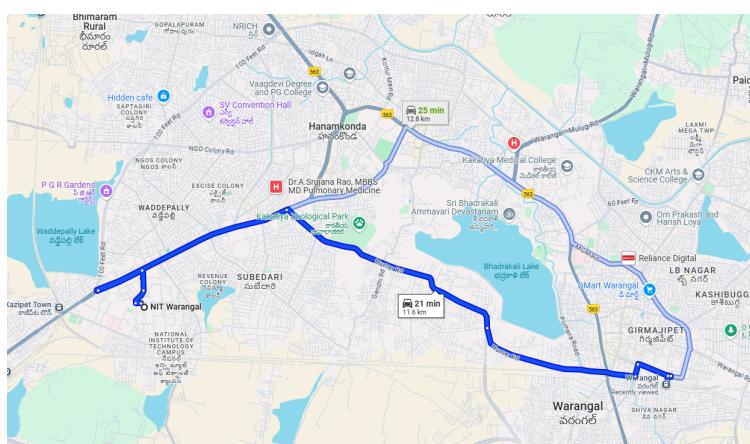


- **How to reach:**

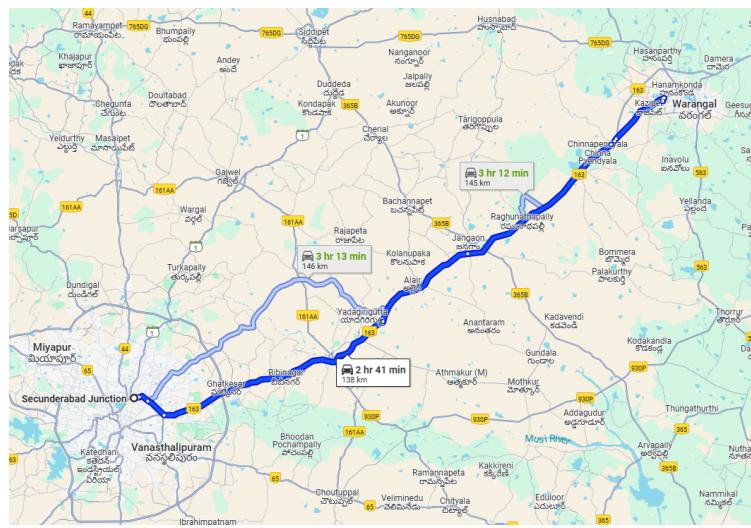
From Kazipet railway station: Kazipet railway station is the nearest railway station to NIT Warangal (2.8 km; Public transport is available).



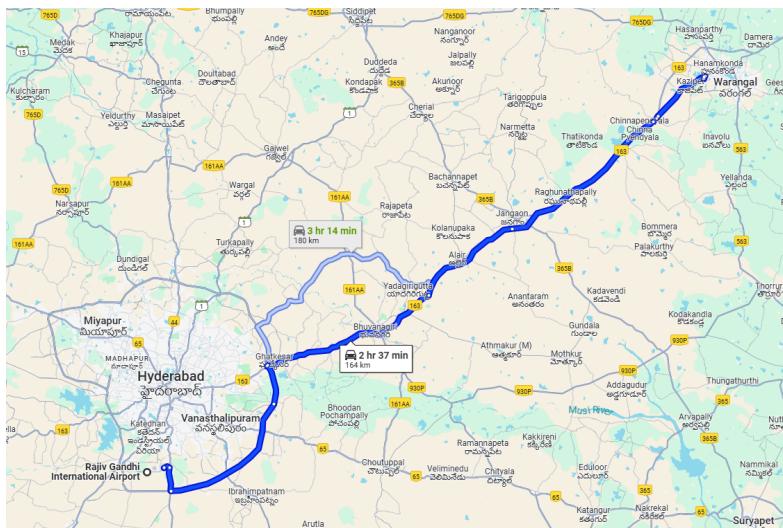
From Warangal railway station: Warangal railway station is the nearest railway station to NIT Warangal (~10 km; Public transport is available also OLA, Rapido cab service available).



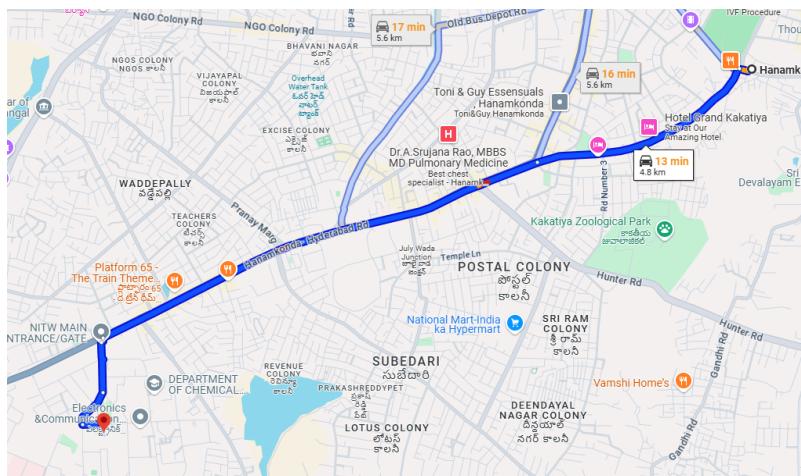
From Secundrabad railway station: Secundrabad railway station to NIT Warangal (~138.0 Km; Public transport is available also private cab service available).



From Rajiv Gandhi International Airport: Rajiv Gandhi International Airport is the nearest Airport to NIT Warangal (~164.2 Km; Public transport is also available OLA, Rapido and private cab service available).



From Hanamkonda Bus station: Hanamkonda Bus station is the nearest bus station to NIT Warangal (~ 4.8 Km; Public transport is also available OLA, Rapido cab service available).



From Warangal Bus station: Warangal Bus station to NIT Warangal (~ 10 Km; Public transport is also available OLA, Rapido cab service available).

