About the Conference

The International Conference on "Recent Advances, Sustainability and Process Intensification in Chemical Engineering" brings together researchers, academicians, industry experts, and young professionals from across the globe. The conference highlights emerging innovations and transformative developments in chemical engineering. Focus areas include sustainable processes, green technologies, and process intensification. Recent advances in energy efficiency, advanced materials, catalysis, and separation technologies will be featured. Emerging solutions in renewable energy, hydrogen, carbon management, and waste valorization will be explored. The conference will promote circular economy, digitalization, AI, and sustainable manufacturing. Keynote lectures, technical sessions, and poster presentations will facilitate knowledge exchange. The event will foster industry–academia collaboration, interdisciplinary research, and innovation. It aims to inspire sustainable technologies for a cleaner, efficient, and resilient future.

About Indian Water Works Association (IWWA)

IWWA was founded in 1968 with headquarters in Mumbai. It is a voluntary body of professionals concerned and connected with water supply for municipal, industrial, agricultural uses and treatment and disposal of wastewater. IWWA focuses basically on the entire Water Cycle" encompassing the environmental, social, institutional, and financing issues. IWWA has 36 Centres spread across the country and is very active in conducting different activities in the areas of Water Supply and Wasterwater Treatment and Disposal. IWWA has a membership of more than over 14000 professionals spread all over the country and abroad.

About MNIT, Jaipur

The Institute was established in 1963 as Malaviya Regional Engineering College Jaipur by the Government of India and the Government of Rajasthan. Subsequently, on 26 June 2002, the college was given the status of National Institute of Technology. On 15 August 2007, it was recognized as the Institute of National Importance through an Act of Parliament. The Institute is fully funded by the Ministry of Education (Shiksha Mantralaya), Government of India.

Tracks & Theme Areas

Track-1:Modelling and Simulation

- Multiscale Modelling and Digital Twins for Chemical Processes
- Molecular Modelling, Computational Fluid Dynamics and Process Simulation
- Data-Driven Modelling, Machine Learning and AI in Chemical Engineering
- Process Optimization, Control and Predictive Analytics

Track-2:Sustainable Chemical Engineering

- Green Chemistry and Sustainable Process Design
- Bio-Based Chemicals, Renewable Feedstocks and Biorefineries
- Circular Economy and Waste-to-Value Processes
- Sustainable Materials, Solvents and Manufacturing Technologies

Track-3:Process Integration & Intensification

- Heat and Mass Integration for Energy-Efficient Processes
- Process Intensification Technologies and Compact Reactors
- Reactive Distillation and Integrated Reaction–Separation Systems
- Micro-reactors for Continuous Synthesis and Intensification

Track-4:Water and wastewater Management

- Advanced Water and Wastewater Treatment Technologies
- Membrane Distillation and Emerging Separation Technologies
- Water Reuse, Recycling and Zero/Minimal Liquid Discharge
- Resource Recovery from Municipal and Industrial Wastewater
- Emerging Contaminants, Water Quality and Sustainable Water Management

Track-5:Catalysis and Bioprocess Engineering

- Heterogeneous, Homogeneous and Nanostructured Catalysis
- Bioreactors and Advanced Bioprocess Design
- Catalysts and Bioprocesses for Sustainable Chemical Production
- Reaction Kinetics, Mechanistic Studies and Catalyst Development

Track-6:Carbon Capture and Storage

- Direct Air Capture and Emerging CO_2 Removal Technologies
- Carbon Capture Using Advanced Solvents, Membranes and Adsorbents
- CO_2 Utilization, Conversion and Carbon-to-Value Technologies
- Carbon Storage, Transport, Monitoring and Life-Cycle Assessment

Track-7:Environment Management for Urban Planning and Development

- Sustainable Urban Development and Environmental Planning
- Urban Air Quality, Emissions and Pollution Control
- Solid Waste Management and Circular Urban Systems
- Climate-Resilient Cities, Environmental Risk and Disaster Management

Track-8:Particle Technology

- Granulation, Agglomeration and Powder Processing
- Fluidization, Multiphase Flow and Particle–Fluid Interactions
- Nanoparticles and Advanced Materials for Defense Applications
- Particle Technology in Pharmaceuticals, Food, and Environmental Applications
- Nano-enabled filters for Personnel Protection Equipments.

International Conference on

Recent Advances, Sustainability and Process Intensification in Chemical Engineering (RASPIC-2027)

CHEMICAL ENGINEERING CONFERENCE

February 11-12, 2027

Jointly Organized by

NIT Jaipur, NIT Calicut, NIT Allahabad, NIT Surat, NIT Nagpur

In Association with

AMRUT Centre of Urban Planning for Capacity Building, MNIT Jaipur

And

Indian Water Works Association (IWWA)

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Resource Persons
The lectures will be delivered by faculty members from IITs/NITs, and reputed Institutions.

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Important Dates
- Call for paper in form of extended abstract: **10 December 2026**
- Intimation for acceptance of abstract: **15 December 2026**
- Last date for registration: **15 January 2027**

Registration Fee (including GST):

Participants Details	Early Bird	After Due Date
Industry Personal	₹5,900.00	₹7,080.00
Academia and R&D Organization	₹4,720.00	₹5,900.00
Delegate (non-authors)	₹3,540.00	
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* The selected papers will be published in Scopus Indexed/UGC approved Journal. The Article Publication Charges will be extra as Rs. 3100/- (including GST)

Mode of Payment
All the payments should be made in favor of Registrar (Sponsored Research) MNIT Account No.:676801700388, IFSC CODE: ICIC0006768 (ICICI BANK, MNIT).
Note: At least one author **must register** for final acceptance

Accommodation
Kindly refer the conference website for hotels nearby to MNIT Jaipur.
https://sites.google.com/view/nece-2027-annual-conference

Submission of Papers
Paper submitted shall be original in nature and relevant to the conference. An abstract (max. words 150) to be submitted with a title, contributing authors, presenting author, and affiliation, email address of the corresponding author (10 points times new roman).
- **Best oral/paper presentation for UG student will be awarded.**
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