



International Conference on PROCESS ENGINEERING AND SUSTAINABLE TECHNOLOGY - STEP 2025

3-5 DECEMBER 2025
(HYBRID MODE)

Organized by

Department of Chemical Engineering
Government Engineering College Kozhikode, Kerala, India

Under the aegis of

YUKTHI- 2025

International Conference on Emerging Trends in Engineering

Important Dates

Opening of submission: June 1, 2025

Deadline of submission: August 25, 2025

Notification of Acceptance: October 15, 2025

Date of registration: November 1, 2025

Camera Ready paper: November 15, 2025

SCOPE OF THE CONFERENCE

This conference serves as a platform for researchers, academicians and industrial experts to discuss advancements in sustainable process engineering, green technologies and environmental solutions. It fosters collaboration, encourages innovation, and promotes cutting-edge research to address global challenges in chemical engineering and sustainability.

WHY TO ATTEND?

- Gain insights into the latest advancements in process engineering, sustainability, and innovation.
- Connect with leading researchers, industry professionals and academicians fostering collaborations.
- Access publication opportunities.

CONTACT US

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www.geckkd.ac.in/STEP-2025.php



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ABOUT THE INSTITUTION

Government Engineering College Kozhikode (GECK), established in 1999 under the Directorate of Technical Education Kerala, is a premier engineering institution affiliated with APJ Abdul Kalam Technological University Kerala. Institution offers six B.Tech and four M.Tech programs, with NBA accreditation for five B.Tech and two M.Tech specializations, ensuring academic excellence and quality education.

VISION

A hub of technological brilliance having international acceptance which fosters professionals and innovators with social responsibility.

MISSION

- Create an ambience for academic brilliance to address the technological challenges.
- Encourage scientific and innovative research towards the progress of the nation.
- Promote social responsibility and professional ethics through value education.

ABOUT THE DEPARTMENT

Established in 1999, the Department of Chemical Engineering at GECK offers NBA-accredited programs: B.Tech in Chemical Engineering and M.Tech in Computer-Aided Process Design. With a state-of-the-art research laboratory equipped with instruments like GC-MS, TGA, HPLC, AAS, UV-Vis spectrophotometry, FTIR etc., the department fosters excellence in scientific research and innovation.

VISION

An internationally renowned centre of excellence that moulds professionally competent and socially committed Chemical Engineers.

MISSION

Provide a high-quality education that builds solid foundation in both theoretical and practical aspects of Chemical Engineering in tune with needs of industry and society and to enhance knowledge through research.



REGISTRATION FEE

| Participant Type | Fees |
|--|--------|
| Academicians/ Research Scholars/ Students/Industrial delegates | ₹ 2000 |
| Participation only | ₹ 1000 |
| Foreign Delegates | \$ 75 |
| Foreign Delegates (Participation only) | \$ 40 |

MODE OF PAYMENT: Online

Name of the Bank: State Bank of India
Branch: Westhill Branch
Account Name: International Conference Yukthi
Account Number: 41410980486
IFSC: SBIN0070857
Purpose: Yukthi 2025

CALL FOR PAPERS

Authors are invited to submit original research papers on topics including, but not limited to:

Chemical & Process Engineering

- Innovations in Reaction Engineering
- Development of Novel Catalysts
- Separation Processes
- Process Intensification
- Innovations in Process Design

Materials in Engineering

- Development of Advanced Materials for Sustainable Applications
- Nanotechnology
- Advancements in Polymers-Recent Technologies, Rheology etc
- Colloids and Suspensions
- Composites

Food, Pharmaceutical and Biological Process Engineering

- Bioprocess Engineering
- Biomaterials, Regenerative Engineering and Drug Delivery
- Post-harvest Handling & Storage of Agricultural Products
- Optimization of Food, Pharmaceutical and Bioprocesses
- Data Science and Digital Agriculture
- Advancements in Food Processing Engineering

Sustainable Energy & Environmental Solutions

- Waste Management
- Pollution Control Techniques
- Eco-friendly Industrial Practices
- Renewable Energy Technologies
- Process Integration
- Carbon Capture, Utilization and Storage
- Energy-efficient Technologies in Process Industries

Process Control, Modeling and Simulation

- Process Control Strategies
- Automated Control
- Application of AI & ML in Process Engineering
- Data Analytics in Process Optimization
- Computational Fluid Dynamics

Chemical Process Safety

- Process Safety Management
- Process Safety Technology – New Developments and Cutting-edge Solutions
- Innovative/Novel Approaches to Hazard Identification and Risk Assessment/Management
- Fire Safety Evaluations
- Digitalization and Data Analytics in Safety

ORGANIZING COMMITTEE

Patron

Dr. Jayaprakash P
Director of Technical Education (In-Charge)

Chairperson

Dr. E A Jasmin
Principal,
Government Engineering College Kozhikode

General Chair

Dr. Gladwin Jos K T
Assistant Professor in AE & I Engineering

Coordinators

Dr. Beula C
Associate Professor in Chemical Engineering

Dr. Sindhu N
Assistant Professor in Chemical Engineering

Prof. Nayana V T
Assistant Professor in Chemical Engineering

PAPER SUBMISSION

Information on preparation and submission of the full paper is available in the conference website

www.geckkd.ac.in/STEP-2025.php

The link for paper submission:

 [https://cmt3.research.microsoft.com/User/Login?
ReturnUrl=%2FSTEP2025](https://cmt3.research.microsoft.com/User/Login?ReturnUrl=%2FSTEP2025)

PUBLICATION

All accepted papers after peer review will be published in a Conference Proceedings Book with an ISBN.

Authors of selected papers have an opportunity to publish their manuscript in Journal of Environmental nanotechnology (Indexed in Scopus) at an exclusive publication fee of ₹ 10000/-.

For More details visit:

[https://www.nanoient.org/journals/index.php/jent/
journal-info](https://www.nanoient.org/journals/index.php/jent/journal-info)

VENUE



Department of Chemical Engineering, Government Engineering College Kozhikode, Kerala, India

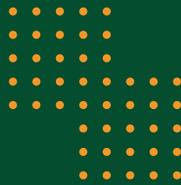
KEYNOTE SPEAKERS

Hear from the renowned experts, the cutting-edge research and insights shaping the future of process engineering and sustainable technology



Er. SHIJU A S
SR HSE SITE ENGINEER, ADNOC, UAE

TOPIC: Process Safety Technology - New Developments and Cutting-edge Solutions



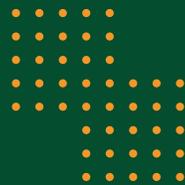
DR. NISHANTH G CHEMMANGATTUVALAPPIL
PROFESSOR, SUNWAY UNIVERSITY, MALAYSIA

TOPIC: A computer-aided molecular design-based approach for the recovery of value-added chemicals from bio-crude oil



DR. V SIVASUBRAMANIAN
PROFESSOR, NIT CALICUT.

TOPIC: Synthesis and Characterization of Magnetically Modified Biosorbent for Sequestration of Dyes from Aqueous Solution



DR. ALFIYA P V, SCIENTIST,
ICAR- INDIAN INSTITUTE OF SPICES RESEARCH, KOZHIKODE

TOPIC: Advancements in Food Processing Engineering

ADVISORY COMMITTEE



DR. NISHANTH G CHEMMANGATTUVALAPPIL
SUNWAY UNIVERSITY MALAYSIA



DR. SUCHITHRA THANGALAZHY GOPAKUMAR
UNIVERSITY OF NOTTINGHAM MALAYSIA



DR. SREENIVAS JAYANTI
IIT MADRAS



DR. SELVARAJU NARAYANASAMY
IIT GUWAHATI



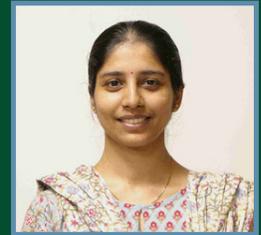
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DR. VAISHAKH NAIR
NITK SURATHKAL



ER. SHIJU A S
ADNOC, UAE



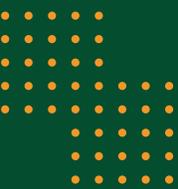
ER. ALEXIE JOSEPH
IOCL



ER. ELDHOSE P KAUMA
SYNTHITE INDUSTRIES LTD.



ER. AYYAPPAN S DEV
BPCL



GLIMPSES OF PREVIOUS EDITIONS

STEP 2023- HYBRID MODE



STEP 2021- ONLINE MODE



Yukthi 2021
24th to 26th September 2021
GOVERNMENT ENGINEERING COLLEGE KOZHIKODE

YUKTHI 2021
International Conference on Emerging Trends in Engineering





YUKTHI 2021
Government Engineering College Kozhikode
International Conference on Emerging Trends in Engineering
24th to 26th September 2021

Keynote Session
on
Green Technologies and Process Intensification in the Production of Biofuels from Biomass

24th September 2021
07:00-8:00 PM
meet.google.com/tvm-rsmq-qok



Dr. Héctor A. Ruiz,
Professor, Autonomous University of Coahuila, Mexico

Yukthi 2021
Govt. Engineering College Kozhikode, Kerala - India
International Conference on Emerging Trends in Engineering
24th to 26th September

Keynote Session
On
"Aviation biofuels - Routes and Challenges"

24th Sep 2021 02:30 PM - 03:30 PM



Dr. Suchitra T G
Associate Professor, University of Nottingham, Malaysia

Keynote Address

STEP 2021
International Conference on Process Engineering and Sustainable Technologies
Department of Chemical Engineering





YUKTHI 2021
Government Engineering College Kozhikode
International Conference on Emerging Trends in Engineering
24th to 26th September 2021

Keynote Session
on
The fascinating science of ultra-thin films: from spontaneous instability to stable coatings

25th September 2021
01:30-2:30 PM
meet.google.com/tvm-rsmq-qok



Dr. Rabibrata Mukherjee,
Professor, IIT Kharagpur

