International Conference on Sustainable Solutions for Infrastructure Development (ICSSID-2025)

Organised by:

Government Engineering College, Kozhikode

Established in 1999, GECK is one of the nine premier Government Engineering Colleges under the Directorate of Technical Education, Government of Kerala. It offers six B.Tech programs and four PG programs, with five UG programs accredited by the National Board of Accreditation (NBA).

Civil Engineering Department

Founded in 2006, the department offers UG and PG programs with 17 faculty and 290+ students, actively contributing to academic and consultancy excellence.

About the Conference

ICSSID-2025 is a dedicated edition under the broader YUKTHI conference series, focusing specifically on sustainable infrastructure development.

Scope of the Conference

YUKTHI 2025 serves as a platform for academicians, researchers, and industry professionals to share cutting-edge developments and sustainable practices in infrastructure. The conference promotes green technologies to address engineering and societal challenges.

Advisory Committee

1. Prof Krishna R Reddy, University of Illinois Chicago
2. Dr. M. V. L. R. Anjaneyulu, Professor, NIT Calicut
3. Dr Pranavesh P., Research Scientist – Flood Risk, The Water Institute, Louisiana 70802, United States of America
4. Dr. George. K. Varghese, Associate Professor in Civil Engineering, NIT Calicut.

Hybrid mode
Organized by
Department of Civil Engineering
Government Engineering College
Kozhikode, Kerala, India

Under the Aegis of

YUKTHI 2025

International Conference on Emerging Trends in Engineering

December 3rd to 5th, 2025

Venue: GEC Kozhikode, Kerala, India

Website: https://www.geckkd.ac.in/ICSSID-2025.php

Why Attend?"

•Benefits for researchers and industry delegates.
•Networking, publication, exposure to global trends, etc.

Themes:

Authors are invited to submit original research in the following areas:

1. **Sustainable Materials and Green Construction Technologies**
   - Eco-friendly and low-carbon construction materials
   - Recycled and alternative materials in infrastructure
   - Innovative green engineering practices for construction
   - Circular economy in material use and building systems
2. **Resilient Structural and Earthquake-Resistant Design**
   - Sustainable structural systems with optimized material usage
   - Earthquake-resilient infrastructure for disaster-prone regions
   - Lifecycle design of bridges and large infrastructure
   - Structural health monitoring for long-term sustainability
3. **Geotechnical Engineering for Sustainable Ground Solutions**
   - Environmentally conscious soil stabilization and foundation systems
   - Ground improvement techniques for enhanced resource efficiency
   - Geotechnical responses to climate and environmental risks
4. **Water and Environmental Systems for Sustainable Development**
   - Integrated water resource management
   - Sustainable urban drainage and flood mitigation
   - Decentralized wastewater treatment and reuse
   - Pollution control and environmental impact minimization
5. **Sustainable and Smart Transportation Infrastructure**
   - Low-emission transport systems and green mobility
   - Public transit systems, non-motorized transport, and improved last-mile connectivity
   - Smart traffic management for reduced congestion and fuel use
   - Resilient and climate-adaptive road infrastructure
6. **Digital Transformation and Smart Civil Infrastructure**
   - AI, ML, and IoT for predictive maintenance and resource optimization
   - Building Information Modelling (BIM) for sustainable lifecycle design
   - Digital twins and automation in sustainable infrastructure development
   - Simulation and modeling tools for optimizing energy and resource use
7. **Geoinformatics and Remote Sensing for Sustainability**
   - GIS and remote sensing for land use, urban planning, and disaster response
   - Smart city development through geospatial intelligence
   - Monitoring environmental and infrastructure performance via satellite data
8. **Sustainable Construction Management and Governance**
   - Sustainable project delivery, lean construction, and resource planning
   - Green procurement and life-cycle costing
   - Policy frameworks, PPPs, and regulatory support for sustainable infrastructure
   - Risk management and resilience planning in infrastructure projects.

Full paper as per the conference guidelines may be submitted to www.geckkd.ac.in/ICSSID-2025.php

Important Dates:

- Submission Opens: June 1, 2025
- Submission Deadline: September 10, 2025
- Notification of Acceptance: October 25, 2025
- Camera-Ready Submission: November 15, 2025
- Registration Deadline: November 1, 2025

Publication

All accepted papers will be published in a Conference proceedings Book with an ISBN.

Authors of selected papers have an opportunity to publish their manuscript in the Journal of Environmental Nanotechnology (Scopus-indexed) at an exclusive publication fee of Rs 10,000/-. For more details visit: https://www.nanoient.org/journals/index.php/jent/journal-info.

Registration

- Paper presentation (Indian) ₹ 2000
- Participation only (Indian) ₹ 1000
- Paper presentation (Foreign) $ 75
- Participation only (Foreign) $ 40

Mode of payment: Online

Bank name: SBI, Westhill Branch

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Organising Committee

Patron: Dr. Jayaprakash P., Director

Chairman: Dr. Jasmin E A, Principal

General Chair: Dr Gladwin Jos K T

Keynote Speakers

1. Pranavesh P., Research Scientist, The Water Institute Centre for Coastal and Deltaic Solutions, Louisiana 70802, US.
2. Dr. George. K. Varghese, Associate Professor in Civil Engineering, NIT Calicut.
3. Dr. Darshana O, Assistant Professor in Civil Engineering, National Institute of Technology Tiruchirappalli.

Department Conference Coordinators

- Dr Ansu V,
- Prof Christena Neethu Priya C Alex
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