First Information Brochure

The Institution of Engineers (India)

A Century of Service to the Nation

All India Seminar

on

Next-Generation Architecture - Integrating Sustainability, Building Intelligence, and Climate-Responsive Design

29 - 30 January 2027

Organized by

The Institution of Engineers (India)

Coimbatore Local Centre

Under the aegis of

Architectural Engineering Division Board, IEI

in association with

Department of Civil Engineering

Coimbatore Institute of Technology (CIT)

Coimbatore

(IM000427-5)

Venue: Coimbatore Institute of Technology

Civil Aerodrome Post, Avinashi Road, Coimbatore - 641014

About The Institution of Engineers (India)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IEI has membership strength of above 2.6 lakh. Established in 1920, with its headquarter Kolkata, IEI has served the engineering fraternity close to a century. During this period of time, IEI has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India which has been accorded this honor. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 124 Centres located across the country and 6 overseas chapters. Besides, IEI has bilateral agreements with about 31 international bodies and membership of another 8 international bodies of the developed nations across the globe. Being recognized as a Scientific and Research Organization (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IEI promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, post graduate students and PhD Research Scholars of Engineering Institutions and Universities.

IEI has been recognized as Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India and besides conducting its' own research, provides Grant-in-Aid to UG/PG/PhD students of Engineering institutes and Universities. IEI holds the International Professional Engineers (IntPE) Register for India under the global International Professional Engineers Alliance (IntPEA). The institution also awards the Professional Engineers (PE) Certification. IEI in collaboration with Springer regularly publishes peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

About Coimbatore Local Centre

IE(I) Coimbatore Local Centre, operating from the PSG College of Technology campus, has been actively serving the engineering fraternity for nearly 60 years. The IE(I), Coimbatore Local Centre has been one of the active centres of The Institution of Engineers (India) which is engaged in successfully translating the objectives and ethics of IE(I) into practice. The Centre was founded in the year of 1965, under the Chairmanship of Dr G R Damodaran, an educationist, the former Vice - Chancellor of Madras University, a philanthropist and also the architect of PSG College of Technology, Coimbatore, who lived for the technology development of the nation.

Presently, IE(I), Coimbatore Local Centre has a strength of more than 3,000 corporate members, more than 6,000 student members, and 22 institutional members. It regularly organizes technical and special lectures in various fields of engineering. Industrial visits are also arranged to promote good technical interaction among the members and industries. It also observes the international / national events like World Water Day, World Telecommunication and Information Society Day, World Environment Day and Engineers Day and other IE(I) statutory days in a fitting manner by organizing technical talks on the selected themes with experts in field. One Day Seminar / Workshop, All India Seminar / Workshop funded by the IE(I), Headquarters, Kolkata are also being organized under different engineering divisions in association with various institutions. A few National Conventions of IE(I) are also organized by the Centre.

The Centre served as an important examination centre in the region for many years conducting AMIE section A & B examinations during summer and winter sessions. The Centre has many students' chapters which are active under different engineering divisions in various institutions in and around Coimbatore. Every year, outstanding engineers and young achievers are honored by the Coimbatore Local Centre. Student scholarships are also distributed from various endowment contributions.

The Centre houses a library with about 1900 text and reference books for the benefit of members. Guidance classes are also being conducted to support associate and student members. Golden jubilee of the IE(I), Coimbatore Local Centre was celebrated in the year 2015 - 2016 with the inauguration of Centre's own building, "PSG - GRD Bhavan". Rotary eClub of Coimbatore Changemakers honored IE(I), Coimbatore Local Centre with **"Changemaker of Coimbatore Award for the year 2022-2023"**. Recently, the Institution of Engineers (India), Coimbatore Local Centre, has been adjudged the **"Best Local Centre" for its all-round performance during the year 2024-2025**. This recognition was also received earlier for the years 2019-2020, 2022-2023 and 2023-2024.

About the College

Coimbatore Institute of Technology (CIT) is a Government Aided Autonomous Institution affiliated to Anna University, Chennai, and approved by AICTE, New Delhi. Established in 1956 by the V. Rangasamy Naidu Educational Trust, CIT began by offering B.E. programmes in Civil, Mechanical and Electrical & Electronics Engineering and has since grown into one of the most reputed engineering institutions in South India. The Institute was granted autonomous status in 1987 and is accredited by the National Assessment and Accreditation Council (NAAC) and the National Board of Accreditation (NBA). Guided by its motto, "Nature in the Service of Man", CIT offers a wide range of Undergraduate, Postgraduate and Doctoral programmes in Engineering, Technology, Architecture and Planning, and allied disciplines, and is committed to nurturing professionals of academic excellence and sound character.

About the Department

The Department of Civil Engineering is one of the founding departments of Coimbatore Institute of Technology, having been part of the Institute since its inception in 1956. The Department offers Undergraduate, Postgraduate and Doctoral programmes and is committed to developing competent civil engineers who can design and deliver safe, sustainable and resilient infrastructure. Its faculty are engaged in teaching, research and consultancy across structural engineering, geotechnical engineering, construction materials and technology, environmental and water resources engineering, and allied areas. The Department regularly organizes technical lectures, workshops, seminars and industrial visits in association with professional bodies such as The Institution of Engineers (India), and encourages students to take up projects, internships and research addressing real-world challenges in the built environment.

About the Theme

This All India Seminar on "Next-Generation Architecture- Integrating Sustainability, Building Intelligence, and Climate-Responsive Design" aimed at exploring the integration of interdisciplinary approaches through themes such as net-zero energy buildings, low-carbon construction, regenerative design, circular economy principles, embodied carbon assessment, renewable energy integration and performance-based design. The architecture, engineering, and construction (AEC) industry is experiencing a paradigm

shift driven by technological innovation, environmental imperatives and the demand for resilient built environments. Contemporary architecture increasingly integrates sustainability, building intelligence and climate-responsive design to deliver high-performance, resource-efficient and occupant-centric buildings. Sustainable design emphasizes optimized energy, water and material use while minimizing environmental impacts throughout a building's life cycle. Concurrently, smart building technologies, including Building Information Modeling (BIM), Artificial Intelligence (AI), the Internet of Things (IoT), digital twins and building automation systems, enable data-driven design, real-time monitoring, predictive maintenance and enhanced operational efficiency. Climate-responsive strategies incorporate passive design, climatic analysis, daylight optimization, natural ventilation, thermal comfort and resilient construction to improve building performance and reduce energy dependence. Through expert lectures and case studies, participants will gain insights into emerging technologies, digital workflows and sustainability assessment frameworks. The seminar aims to promote innovative, resilient and intelligent architectural solutions that advance environmentally responsible, climate-adaptive and future-ready built environments.

Sub - Themes

- Net-Zero Energy and Carbon-Neutral Buildings
- Smart Building Technologies and Intelligent Building Systems
- Climate-Responsive and Passive Architectural Design
- Sustainable Building Materials and Circular Construction
- Building Performance Simulation and Digital Design Workflows
- Renewable Energy Integration and High-Performance Buildings
- Resilient Architecture and Climate Change Adaptation
- Urban Sustainability, Smart Cities, and Green Infrastructure
- Regenerative Design and Green Building Assessment
- Emerging Digital Innovations in Architecture and Construction

Call for Papers

Prospective authors are invited to submit manuscripts reporting original unpublished research and recent developments in the topics related to the theme of the All India Seminar but not limited to subthemes listed above.

Authors should send an Abstract up to 300 words to **coimbatorelc@ieindia.org and kavitha.s@cit.edu.in.** The final paper should be in the format available on the website (https://repos.ieindia.org/technical/publication/document/Paper_Template.docx). All presented papers will be included in the proceedings of the All India Seminar.

For Guidelines for Submission of Papers scan the QR Code:

https://repos.ieindia.org/technical/publication/document/Guidelines_for_Authors.pdf

Resource Persons

A distinguished panel of eminent experts and professionals drawn from leading academic institutions, renowned architectural practices, reputed consulting firms, construction industries, research organisations

Eligibility

IEI Members, Architects, Faculty Members, Practicing Engineers, Research Scholars, Diploma, UG and PG Students.

Importance Dates

Last date for abstract submission	**: 18.01.2027**
Paper acceptance intimation	**: 19.01.2027**
Last date for full paper submission:	**: 22.01.2027**
Last date of registration	**: 23.01.2027**

How to Apply

* **Registration** for the seminar can be made by sending the duly filled application through email or using the registration link on or before **23.01.2027.**

Registration Link: https://forms.gle/hYVkHWCs8yvsFZpBA

Registration Fee (including GST *)

		₹ *
IEI Corporate Members	:	**472.00**
UG / PG / Research Scholar	:	**472.00**
Faculty Members	:	**708.00**
Participants from Industry	:	**944.00**

Payment (Online Transfer Only)

Name	**The Institution of Engineers (India) Coimbatore Local Centre**
Bank	**State Bank of India**
Branch	**Peelamedu Branch, Coimbatore**
Account No.	**10141435551**
IFSC Code	**SBIN0007231**
GST No.	**33AAATT3439Q6ZW**

Note

- **Pre-registration is mandatory**
- **Spot registration is strictly not permitted (No cash payment)**
- **Limited participants only**
- **No TA / DA will be paid**
- **Kindly bring your college / industry identity card**
- **Registration through email and registration link is compulsory**
- **Registration fee includes: refreshments, lunch & participation certificate**

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Dr Ashishsingh Dixit, Secretary and Director General, IEI

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Coimbatore Institute of Technology, Coimbatore

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Department of Civil Engineering
Coimbatore Institute of Technology, Coimbatore

Contact	
Dr J Pradeep Kumar Honorary Secretary The Institution of Engineers (India) Coimbatore Local Centre PSG College of Technology Campus Peelamedu, Coimbatore - 641004 Email: coimbatorelc@ieindia.org Phone: 0422 - 2580733 / Office: +91 8056652764	**Dr R Sathyanarayan Sridhar** Professor & Head Department of Civil Engineering Coimbatore Institute of Technology Coimbatore Email: sathyanarayan@cit.edu.in Phone: +91 9443304366 **Dr C Shankar** Assistant Professor Department of Civil Engineering Coimbatore Institute of Technology Coimbatore Email: shankar.c@cit.edu.in Phone: 9952444311

Registration Form

All India Seminar
on

Next-Generation Architecture - Integrating Sustainability, Building Intelligence, and Climate-Responsive Design

29 - 30 January 2027

Venue: Coimbatore Institute of Technology
Civil Aerodrome Post, Avinashi Road, Coimbatore - 641014

Name: (in Block Letters) : .....

Designation: : .....

Organization / Institution : .....

IEI Membership No. & Division : .....
(if not a member, write Nil)

Address for Communication : .....

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Mobile Number : .....

Email ID : .....

Registration Fee Paid (Rs.) : .....

Transaction Details : .....
UPI ID No / NEFT UTR No

Transaction Date & Time : .....

Date: .....

.....

Signature