

Information Brochure

# The Institution of Engineers (India)

*A Century of Service to the Nation*

**One Day Seminar**

on

***“Nano Materials in Construction: The Future of  
Smart and Sustainable Buildings”***

**22.04.2026**

**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**  
**KPR Institute of Engineering and Technology**  
**Coimbatore**

*Venue: Thanam Hall*

*KPR Institute of Engineering and Technology, Coimbatore - 641407*

## **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, 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 honour. 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 125 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 Organisation (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, postgraduate 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 audited annual accounts, quarterly and annual reports of the Centre are being properly submitted to the IE(I), Headquarters on time. The monthly committee meetings and Annual General Meeting (AGM) are being held in an organized manner. 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

KPR Institute of Engineering and Technology, established in 2009, is a private autonomous institution affiliated to Anna University. It is a 150- acre campus located in Coimbatore, Tamil Nadu. It offers 14 Undergraduate, 6 Postgraduate, and 13 research programs. The institution advances over 5000 students from 15 countries, 300+ faculty members, 62% of whom hold PhDs. KPRIET excels in engineering and ranks between 101-150 in NIRF's engineering category. For its excellence in teaching, employability, social responsibility, research, internationalization, and governance, KPRIET earned the diamond rating in the QS I-GAUGE. KPRIET prepares students for the future by mentoring them in innovative solutions and adapting to the rapidly changing world.

### About the Department

The Department of Civil Engineering at KPR Institute of Engineering and Technology, Coimbatore was established in 2009 with a Bachelor's Degree programme in Civil Engineering and an annual intake of 60 students. The department later expanded its academic offerings by introducing a postgraduate programme in Structural Engineering with an annual intake of 18 students. It is also recognized as a Research Centre of Anna University for pursuing Ph.D. programmes. The department focuses on developing skilled professionals in infrastructure planning, design, and sustainable construction through strong academic foundations. Well-equipped laboratories, modern software tools, industry-oriented training, and consultancy activities support research and innovation in solving real- world engineering challenges. The department emphasizes emerging technologies such as BIM, Artificial Intelligence, and smart construction practices to produce competent civil engineers who contribute to society and nation-building.

### About the Theme

The rapid advancement of nanotechnology is revolutionizing the field of construction, offering smart, durable, and sustainable solutions for modern buildings. The seminar "Nano Materials in Construction: The Future of Smart and Sustainable Buildings" aims to provide a comprehensive understanding of the role of nanomaterials in enhancing the performance of construction materials and structural systems. Nano materials, including nano-silica, nano-titanium dioxide, carbon nanotubes, nano-alumina and graphene, have shown significant potential in improving mechanical strength, self-cleaning properties, thermal insulation, corrosion resistance and overall durability of construction components. These innovations are driving the evolution of smart materials and eco-friendly infrastructure development. This one-day seminar is designed to bring together IEI members, engineers, researchers, academicians and

industry professionals to explore the applications, benefits and challenges of using nanotechnology in construction. Through expert sessions and discussions, participants will gain insight into emerging trends, recent research, and practical applications in the field. The seminar also emphasizes the importance of sustainability, energy efficiency and innovation in building materials, aligning with global construction standards and environmental goals.

### **Sub - Themes**

- ✓ Nano-Enhanced Concrete and Cementitious Materials
- ✓ Self-Cleaning and Air-Purifying Building Surfaces
- ✓ Thermal Insulation and Energy Efficiency Using Nanomaterials
- ✓ Corrosion Resistance and Protective Coatings for Steel and Concrete
- ✓ Challenges, Safety, and Sustainability Aspects of Nanomaterials in Construction

### **Resource Persons**

Expert members from various leading academic institutions, research laboratories and Industries.

### **Eligibility**

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

### **How to Apply**

**Registration\*** for the seminar can be made by sending the duly filled application through email or by filling the registration link on or before **18.04.2026**.

**Registration Link:** <https://forms.gle/95v1zWiSDNxuXwEc7>

### **Registration Fee (including GST)**

	₹
IEI Corporate Members	<b>236.00</b>
UG / PG / Research Scholar	<b>236.00</b>
Faculty Members	<b>354.00</b>
Participants from Industry	<b>472.00</b>

### **Payment (Online Transfer Only)**

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

### **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**

**Chief Patrons:** **Dr K P Ramasamy**  
Chairman  
KPR Institute of Engineering and Technology, Coimbatore

**Ms Gayathri Anandkrishnan**  
Secretary  
KPR Institute of Engineering and Technology, Coimbatore

**Dr A M Natarajan**  
Chief Executive  
KPR Institute of Engineering and Technology, Coimbatore

**Patron:** **Dr R Devi Priya**  
Principal  
KPR Institute of Engineering and Technology, Coimbatore

**Organizing Committee**

**Chairman:** **Dr M Senthilkumar**  
Chairman  
IEI Coimbatore Local Centre

**Secretary:** **Dr J Pradeep Kumar**  
Honorary Secretary  
IEI Coimbatore Local Centre

**Convener:** **Mrs S Bharani**  
Assistant Professor II  
Department of Civil Engineering  
KPR Institute of Engineering and Technology, Coimbatore

**Members:** **Dr M Kaarthik**, Committee Member, IEI Coimbatore Local Centre  
**Lt A K Dr Priya**, Committee Member, IEI Coimbatore Local Centre  
**Dr T Ramesh**, Committee Member, IEI Coimbatore Local Centre  
**Dr K Akil**, Committee Member, IEI Coimbatore Local Centre  
**Dr K S Elango**, Associate Professor & Head (i/c), Dept of Civil Engg, KPRIET

**CONTACT**

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**Registration Form**

***One Day Seminar***

on

***“Nano Materials in Construction: The Future of Smart and Sustainable Buildings”***

**Date: 22.04.2026**

***Venue: Thanam Hall***

***KPR Institute of Engineering and Technology, Coimbatore - 641407***

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

**Designation:** .....

**Organization / Institution :** .....

**IEI Membership No & Division :** .....

**Address for Communication :** .....

.....

**Mobile Number :** .....

**Email ID :** .....

**Amount :** .....

**UPI / NEFT / DD / CHEQUE :** .....

**Transaction Date :** .....

**Dated: .....**

.....

**Signature**