

Information Brochure

The Institution of Engineers (India)

"A Century of Service to the Nation"

All India Seminar
on

"Cost Effective and Emerging Effluent Treatment Technologies"

Date: 21 - 22 September 2026

Organized by



The Institution of Engineers (India)

Coimbatore Local Centre

under the aegis of

Environmental Engineering Division Board, IEI

in association with



Division of Biotechnology
and

Water Institute - A Centre of Excellence

Karunya Institute of Technology and Sciences (KITS)
Coimbatore

Venue: Water Institute Lab

Water Institute - A Centre of Excellence, KITS, Coimbatore - 641114

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

Karunya Institute of Technology and Sciences (Deemed to be University) (KITS) was founded with the noble vision to raise professionals and leaders of high academic caliber and unblemished character, nurtured with a strong motivation and commitment to serve humanity. The institution is the fulfillment of the vision of its founders, the late Dr. D. G. S. Dhinakaran and the present Chancellor, Dr. Paul Dhinakaran. Established in 1986 as an Engineering College, it was granted autonomous status in 2000 and declared a Deemed-to-be University by the University Grants Commission (UGC) in recognition of its academic excellence by the Ministry of Human Resources Development under section 3 of the UGC Act, 1956, vide notification no 9-3-2000-U3 dated 23.6.2004 of the Government of India. Accredited by NAAC, the institution offers a wide array of Bachelor's, Master's and Doctoral Degree programs in various branches of Engineering, Biotechnology, Food processing and Agricultural Sciences. From humble beginnings with 180 students, the institution has grown rapidly and now runs 18 academic departments.

About the Centre

Karunya Institute of Technology and Sciences (KITS) identified four thrust areas of societal importance in 2008, namely water, food, healthcare, and sustainable energy. The Water Institute (WI) was established at KITS in 2008 as a flagship programme to encourage interdisciplinary research aiming at scientific water management and to ensure water security, especially in the semi-arid zone. WI was initiated keeping in view the MDGs, the focus of which shifted to SDGs in 2016. The Dublin Conference-1992, Rio Conference-1992 and Johannesburg Conference-2012, and the initiatives of GoI, namely the National Drinking Water Mission and WAR for Water, prompted by the Supreme Court of India, motivated KITS to focus on water. The WI gained significance with more areas coming under water stress or water scarcity in India. The water initiative of KITS succeeded in bringing together the faculty and students of different Departments - arts, science, agriculture, engineering, and management - and the alumni on a single platform to focus on interdisciplinary research in multifarious areas in the water sector.

As an outcome of the effort, several projects, papers, products, consultancy, capacity building and extension activities emerged. Karunya also could play a role in the policy formulation in the water sector of international agencies and national, state and local governments.

About the Theme

The All India Seminar on Cost Effective and Emerging Effluent Treatment Technologies aims to provide a comprehensive platform for IEI members, researchers, academicians, engineers, industry professionals, and students to explore innovations and practical solutions in the field of effluent treatment and wastewater management. The seminar addresses the growing need for affordable and efficient technologies to treat industrial, agricultural, and domestic effluents in order to meet increasingly stringent environmental regulations and to protect water resources. The programme will highlight recent advances in biological treatment processes, physicochemical methods, membrane-based technologies, electrochemical treatment, constructed wetlands, phytoremediation, and zero-liquid discharge systems. Special focus will be placed on cost-effective approaches suited for small and medium-scale industries, municipalities, and developing regions where resource constraints pose significant challenges. The seminar also intends to facilitate discussions on the integration of circular economy principles into effluent management, including resource recovery, nutrient reclamation, energy generation from wastewater, and reuse of treated effluents for industrial and agricultural purposes. Keynote lectures, technical sessions, case studies, and interactive panel discussions will offer participants the opportunity to share field experiences, review emerging regulatory frameworks, and examine successful models of sustainable effluent treatment adopted across various engineering sectors. Special emphasis will be placed on indigenous and low-cost treatment innovations, pilot-scale demonstrations, and technology transfer mechanisms to bridge the gap between research outcomes and ground-level implementation. The seminar is expected to inspire IEI members, young engineers and researchers to develop scalable, economical, and environmentally sound solutions. Overall, the programme seeks to foster interdisciplinary collaboration and knowledge exchange, driving progress toward cleaner industrial processes and healthier water ecosystems for the benefit of society and future generations.

Sub-Themes

1. Biological and Bioelectrochemical Effluent Treatment Processes
2. Membrane Technology and Advanced Oxidation Processes
3. Low-Cost and Indigenous Treatment Technologies for Industrial Effluents
4. Zero Liquid Discharge and Resource Recovery from Wastewater
5. Constructed Wetlands and Nature-Based Effluent Treatment Solutions
6. Effluent Treatment in Textile, Tannery and Chemical Industries
7. Electrochemical and Photocatalytic Methods for Effluent Treatment
8. AI and IoT-Based Monitoring and Optimization of Treatment Plants
9. Regulatory Frameworks, Effluent Standards and Environmental Compliance
10. Circular Economy Approaches and Treated Effluent Reuse in Industry and Agriculture

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 & hod_wi@karunya.edu**. 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

Expert members from various leading academic institutions and Industries.

Eligibility

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

Importance Dates

Last date for abstract submission	: 16.09.2026
Paper acceptance intimation	: 17.09.2026
Last date for full paper submission:	: 19.09.2026
Last date of registration	: 15.09.2026

* Registration for the seminar can be made by sending the duly filled application through email or using the registration link on or before **15.09.2026**.

Registration Link: <https://forms.gle/x257yzuvPSp5w2Cr8>

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**

Chief Patrons **Prof Dr R Elijah Blessing**
Vice Chancellor
Karunya Institute of Technology and Sciences, Coimbatore

Patron **Dr Sajan Kurien**
Dean - School of Agricultural Sciences
Karunya Institute of Technology and Sciences, Coimbatore

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Convener **Dr A K Priya**
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Water Institute - A Centre of Excellence
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Karunya Institute of Technology and Sciences Coimbatore

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Water Institute - A Centre of Excellence
Karunya Institute of Technology and Sciences, Coimbatore

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Registration Form

**All India Seminar
on**

**“Cost Effective and Emerging Effluent
Treatment Technologies”**

Date: 21 - 22 September 2026

***Venue: Water Institute Lab
Water Institute - A Centre of Excellence, KITS, Coimbatore - 641114***

Name: (in Block Letters) :

Designation:

Organization / Institution :

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

Address for Communication :

.....

Mobile Number :

Email ID :

Registration Fee Paid (Rs.) :

Transaction Details :
UPI ID No / NEFT UTR No

Transaction Date & Time :

Dated:

.....
Signature