

Information Brochure

The Institution of Engineers (India)

"A Century of Service to the Nation"

All India Seminar

on

***"AI-Powered Innovations Shaping the Future of
Healthcare"***

Date: 21.08.2025 & 22.08.2025

Organized by



The Institution of Engineers (India)

Coimbatore Local Centre

under the aegis of

Computer Engineering Divisional Board, IEI

in association with



Department of Electronics and Communication Engineering

&

Department of Artificial Intelligence and Data Science

Coimbatore Institute of Technology, Coimbatore

Venue: LBCH

Coimbatore Institute of Technology, 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

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, philanthropist and also the architect of PSG College of Technology, Coimbatore who lived for the technology development of the Nation. For more than five decades, the IE(I), Coimbatore Local Centre (CLC) has contributed a lot to the engineering community and to the society as a whole. The Institution of Engineers (India), Coimbatore Local Centre has been adjudged the **“Best Local Centre” based on all-round performance during the year 2023 - 2024** and has also received the **Best Local Centre Award in 2019 - 2020 and 2022 - 2023.**

About the College

The V. Rangasamy Naidu Educational Trust devoted to the cause of promoting technical and scientific literacy, established Coimbatore Institute of Technology (CIT) in Coimbatore, Tamil Nadu, South India in 1956. CIT is one of the most reputed and prestigious educational institutions in India. The Institute backed by World Class research and development over the years attained autonomous status in 1987.

About the Department of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering was started in the year 1968. Currently the department offers undergraduate - B.E Electronics and Communication Engineering (Full time), and research (Full Time and Part Time) programmes. The UG

programme has sanctioned strength of 120 students with under both government aided and self-supporting streams. The department has dynamic and vibrant faculty specialized in various fields of Electronics and Communication Engineering with proven research experience in niche areas. The department has produced 29 doctorates in the area of Signal processing, Wireless Communication, Networking, Wireless sensor Networks, Image processing, VLSI Design and Embedded systems. The faculty members of the department have undertaken innovative projects from leading agencies such as AICTE, UGC, DST.

About the Department of Artificial Intelligence and Data Science

AI and Data Science are the key enablers for disruptive innovations of this century, these emerging technological revolutions have reshaped our work and life style. From the start of June 2021, CIT, Coimbatore establishes a new department "Artificial Intelligence and Data Science". The department will be driven by its commitment to excel in research, design and development of next generation cutting-edge technologies in the area of Artificial Intelligence and Data Analytics. Our mission is to cultivate Industry-Academia partnership. Drive collaborative research with other domains and equip our talents to contribute on multi-disciplinary projects by translating the developed technology into real world impacts.

About the Theme

Healthcare is undergoing a rapid transformation driven by technological advancements and evolving patient expectations. The convergence of technology and medicine is driving groundbreaking innovations that are redefining the delivery and experience of healthcare. Among these, artificial intelligence (AI) stands out as a transformative force, creating innovative solutions to longstanding challenges. AI-powered tools are enhancing the accuracy of medical image analysis, enabling earlier and more precise diagnoses. Additionally, AI systems can analyze genetic data and medical histories to develop personalized treatment plans, improving efficacy while minimizing side effects. These advancements hold the potential to significantly improve patient outcomes and redefine standards of care. However, the adoption of these technologies also brings challenges that must be addressed. Issues such as data privacy, algorithmic bias, and ethical considerations remain critical obstacles in ensuring equitable and trustworthy healthcare solutions. Collaborative efforts across stakeholders are essential to overcome these barriers and unlock the full potential of technology in medicine. The proposed theme for the All India Seminar is to explore and share innovative solutions, challenges, and opportunities in healthcare transformation. This platform will bring together experts to discuss ways to enhance healthcare delivery, improve patient outcomes, and promote overall well-being. By emphasizing a forward-thinking and collaborative approach, the seminar aims to shape the future of healthcare, fostering innovation that meets the needs of patients and providers alike.

Sub Themes

- ✓ AI and Machine Learning in Diagnostics
- ✓ Data Privacy and Security in Healthcare
- ✓ Telemedicine and Virtual Care: The Future of Patient-Provider Interaction
- ✓ AI-Powered Precision Medicine
- ✓ Digital Health and Patient Empowerment
- ✓ Data Analytics and Predictive Healthcare
- ✓ Wearable Technology and IoT in Healthcare
- ✓ Ethical and Legal Challenges in Healthcare AI

Call for Papers

All interested participants are requested to contribute technical / research papers and case studies detailing concept, innovation, idea or practical experiences for oral presentation. Each paper should begin with a synopsis of about 200 words and preferably within 3000 words excluding figures, tables and references. Paper can be sent to (coimbatorelc@ieindia.org, akila@cit.edu.in & prabhavathy.m@cit.edu.in)



For Guidelines for Submission of Papers scan the QR Code:

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.

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 **10.08.2025**.

Registration Link: <https://forms.gle/PbytEMPTYXDMAbLh7>

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

All payments are to be made through crossed Demand Draft / At par Cheque, drawn in favour of **The Institution of Engineers (India), Coimbatore Local Centre** payable at **Coimbatore** or online payment.

For Online Transfer

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.**
- ❖ 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.

Importance Dates

Last date of registration	: 10.08.2025
Last date for abstract submission	: 10.08.2025
Paper acceptance intimation	: 14.08.2025
Last date for full paper submission:	: 18.08.2025

Chief Patrons:	Thiru R Santhossh Managing Trustee / Chairman, CIT Institutions Coimbatore	Thiru S Rajiv Rangasamy Correspondent CIT Institutions Coimbatore	Sri Vishnu Nischal Rajkumar Director Admissions CIT Institutions Coimbatore
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Patrons:	Dr A Rajeswari Principal Coimbatore Institute of Technology Coimbatore	Dr N R Alamelu Chief Academic Officer CIT Institutions Coimbatore
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Associate Professor
Department of Electronics and Communication Engineering
Coimbatore Institute of Technology, Coimbatore

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Ex-Officio Member: Maj Gen (Dr) MJS Syali, VSM (Retd), SDG, IEI
Dr G Madhan Mohan, Honorary Secretary, IEI Coimbatore Local Centre

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Department of Artificial Intelligence and Data Science
Coimbatore Institute of Technology, Coimbatore

Contact

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Registration Form

All India Seminar

on

“AI-Powered Innovations Shaping the Future of Healthcare”

Date: 21.08.2025 & 22.08.2025

Venue: LBCH

Coimbatore Institute of Technology, Coimbatore - 641014

Name: (Block Letters).....

Designation:.....

Organization / Institution:.....

IEI Membership Number & Division.....

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Address for Communication.....

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Mobile Number:..... Email:.....

I / We enclose a DD / CHEQUE / NEFT details for Rs..... Date:.....

Transaction ID Number.....

Dated.....

Signature