

Information Brochure

The Institution of Engineers (India)

A Century of Service to the Nation

One Day Seminar

on

“AI-Driven Electric Vehicle Technologies and Intelligent IT Systems for Smart and Sustainable Mobility”

Date: 06.11.2026

Organized by



The Institution of Engineers (India)

Coimbatore Local Centre

Under the aegis of

Electrical Engineering Division Board, IEI

in association with



**Department of Electrical and Electronics Engineering
&**

Department of Information Technology

SNS College of Technology

Coimbatore - 641035

(IM000340-0)

Venue: RNG Seminar Hall

SNS College of Technology, Coimbatore - 641035

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 lakhs. Established in 1920, with its headquarter at 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 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 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 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, post graduate students and Ph.D. research scholars of Engineering Institutions 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 and confers the Chartered Engineer (CEng) certification. IEI, in collaboration with Springer, regularly publishes peer-reviewed international journals 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

SNS College of Technology, Coimbatore was established in 2002 as part of the SNS Groups. The college is approved by AICTE and affiliated to the Anna University, Coimbatore. Anna University, Chennai confirmed the conferment of Autonomous status to SNS College of Technology for a period of 10 years with effect from 2018-19 to 2027-28. SNS College of Technology was founded in 2002 and has been administered and run by Sri. SNS Charitable Trust. The institution was established with the permission of the Government of Tamil Nadu and recognized by UGC. It is a self-financing, co-educational, college and performs its academic duties with a motto of Sincerity, Nobility and Service (SNS). The college is located in a rural area on Sathy (NH-209) road at Coimbatore. It offers fourteen undergraduate courses, six postgraduate courses and seven research programmes. Four departments of the college namely Mech., CSE, ECE & IT are accredited by the National Board of Accreditation (NBA).

About the Department of EEE

The department was established in the year 2005 with an intake of 60 students. In the e-world, the role of Electrical & Electronics Engineers has come into sharp focus. This department offers one undergraduate programme (B.E.) and one post-graduate programme (M.E. in Power Systems). The following basic courses such as electrical machines, power electronics, power systems and special courses like FACTS, HVDC and Power Quality are given as electives for the students. The department has 8 well-structured laboratories for UG students such as Power System Simulation Laboratory, Power Electronics Laboratory, Power Electronics and Drives Laboratory, Electronics Design Laboratory, Electrical machines Laboratory, Control Systems Laboratory, Electric circuits Laboratory and Engineering Practices Laboratory. An exclusive research laboratory with 40 systems for PG students which include software packages such as MATLAB, ETAP, Lab VIEW, PSPICE, ORCAD, PSCAD etc. The department has an excellent team of rich experienced and dedicated faculty members in different domains such as Power Electronics and Drives, Power Systems, Embedded Systems and Applied Electronics. The department has received permanent affiliation from Anna University and it is accredited by NBA-AICTE - TIER I for UG programme. The field of Electrical and Electronics Engineering is proud to be one of the core engineering branches.

About the Department of IT

The Department of Information Technology at SNS College of Technology, Coimbatore, was established in the year 2002 with an intake of 60 students. The department offers a four-year undergraduate programme, B.Tech. Information Technology, focusing on quality education, technical excellence, innovation, and industry readiness. The curriculum covers fundamental areas such as Programming, Data Structures, Database Management Systems, Computer Networks, Software Engineering, and emerging technologies including Artificial Intelligence, Machine Learning, Data Science, Cloud Computing, Cybersecurity, and Generative AI. The department is equipped with modern computing facilities, well-established laboratories, and advanced software tools to promote experiential learning, research, and innovation. An excellent team of highly qualified, experienced, and dedicated faculty members provides academic guidance and technical expertise across various domains. The department emphasizes industry-institute collaboration through internships, technical workshops, hackathons, certification programmes, industry-oriented training, and real-time projects to enhance students' professional competencies and employability. The B.Tech. Information Technology programme is permanently affiliated to Anna University and has been accredited three times by the National Board of Accreditation (NBA), demonstrating its commitment to academic excellence. The department strives to produce globally competent, innovative, ethically responsible, and industry-ready IT professionals capable of addressing evolving technological challenges.

About the Theme

One Day Seminar on “AI-Driven Electric Vehicle Technologies and Intelligent IT Systems for Smart and Sustainable Mobility” aims to explore recent advancements in Electric Vehicle (EV) technologies integrated with Artificial Intelligence (AI), Internet of Things (IoT), intelligent sensing, data communication, cybersecurity and information technology applications. The seminar focuses on the role of AI-enabled analytics, smart embedded systems, connected vehicle technologies, secure wireless communication and intelligent energy management in transforming modern mobility solutions. With the rapid growth of EV adoption and smart transportation infrastructure, advanced IT-enabled systems have become essential for battery monitoring, predictive maintenance, autonomous control, charging optimization, vehicle-to-grid (V2G) communication, cloud-assisted diagnostics and real-time performance analysis. Intelligent sensing systems, edge computing, 5G-enabled vehicular communication, machine learning algorithms and secure data transmission techniques further improve efficiency, reliability, safety and sustainability in EV ecosystems. The programme will highlight emerging trends in EV power electronics, smart charging infrastructure, AI-based mobility solutions, connected transportation systems, intelligent traffic management, cybersecurity in EV networks, blockchain-enabled secure data sharing, renewable energy integration and advanced communication protocols for sustainable mobility. Special emphasis will also be given to data security, privacy protection, encrypted communication frameworks, intrusion detection systems and secure EV charging networks to address growing cyber threats in intelligent transportation systems. Through keynote lectures, technical sessions, expert interactions and discussions, participants will gain valuable insights into current research trends, industrial practices and future technological opportunities in smart mobility, secure communication systems, and intelligent transportation technologies. The seminar aims to bridge the gap between academia and industry by fostering collaboration among IET members, industry experts, engineers, researchers, faculty members and students. The knowledge shared through this programme will contribute to the development of intelligent, eco-friendly, energy-efficient, digitally connected and cyber-secure transportation solutions supporting sustainable development and technological advancement in the mobility sector.

Sub-Themes

- ✓ AI and Machine Learning Applications in Electric Vehicles
- ✓ Smart Battery Management and Energy Storage Systems
- ✓ Intelligent Charging Infrastructure and Vehicle-to-Grid Technologies
- ✓ IoT and Connected Electric Mobility Systems
- ✓ Embedded Systems and Intelligent Sensors for EV Applications
- ✓ Cybersecurity and Secure Communication in Smart Mobility
- ✓ Autonomous and AI-Assisted Electric Transportation Systems
- ✓ Data Analytics and Cloud-Based EV Monitoring Platforms
- ✓ Sustainable Energy Integration and Green Mobility Solutions
- ✓ Industry 4.0 Technologies in Smart Transportation and EV Manufacturing

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 **01.11.2026**.

Registration Link: <https://tinyurl.com/ieaiseminar>

Registration Fee (including GST) *

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

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: **Deiva Thiru Dr S N Subbramanian**
Founder Chairman, SNS Group of Institutions

Dr S Rajalakshmi
Correspondent, SNS Group of Institutions

Dr S Nalin Vimal Kumar
The Native Design Thinker & Technical Director
SNS Group of Institutions

Patron: **Dr S Charles**
Principal
SNS College of 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 **Dr C Ramakrishnan**
Professor and Head, Department of EEE
SNS College of Technology

Coordinator **Dr L M Nithya**
Professor & Dean (CSE & IT)
SNS College of Technology

Members **Dr N Brindha**, Committee Member, IEI CLC
Dr T Bogaraj, Committee Member, IEI CLC
Dr R Latha, Committee Member, IEI CLC
Dr B Vinoth Kumar, Committee Member, IEI CLC
Dr C Senthilkumar, IEI Institution Coordinator & ASP/ Mech/ SNSCT
Mr R Vijayakumar, AP/EEE/SNSCT
Ms A Aruna, AP/IT/SNSCT

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Registration Form

One Day Seminar
on

**“AI-Driven Electric Vehicle Technologies
and Intelligent IT Systems
for Smart and Sustainable Mobility”**

Date: 06.11.2026

*Venue: RNG Seminar Hall
SNS College of Technology, Coimbatore - 641035*

Name (in Block Letters) :

Designation :

Organization / Institution :

IEI Membership No. & Division :

Address for Communication :

.....

Mobile Number :

Email ID :

Registration Fee Paid (Rs.) :

Transaction Details :

UPI ID No / NEFT UTR No. :

Transaction Date & Time :

Date:

.....

Signature