First Information Brochure

The Institution of Engineers (India)

"A Century of Service to the Nation"

All India Seminar

on

Automate to Accelerate: AI Control Systems in Modern Industry and Infrastructure

26-27 November 2026

Organized by

The Institution of Engineers (India)

Coimbatore Local Centre

under the aegis of

Interdisciplinary Coordination Committee, IEI

in association with

Department of Mechatronics

PSG POLYTECHNIC COLLEGE

Coimbatore

(IM000781-3)

Venue: I Block Seminar Hall

PSG Polytechnic College, Coimbatore - 641004

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

PSG Polytechnic College, established in the year 1939, a pioneer institute in the field of Technical Education is a Government aided, ISO 9001 certified institution with Autonomous status from 1976. This aids it to have a flexible curriculum and updated syllabi. The Polytechnic College has the best laboratories with free access to the students and prepares them with the latest method of learning industrial practices.

The college is located in the same campus as the PSG Industrial Institute. The Institution is an autonomous Institution approved by All India council for Technical Education (AICTE) and affiliated to DOTE Chennai. The Institution Offers 16 Diploma Programmes - DAT, DAE, DCE, DCN, DAM, DDD, DEEE, DECE, DFT, DIT, DME, DME (CAD), DMT, DTT, DEEE (SW) and DME (SW). Out of which 9 programmes are accredited by NBA. The institute also established center for e-learning and digital library to enrich teaching- learning process. The PSG Polytechnic College is equipped with PSG - ETS IoT Laboratory which provides the students hands on experience in internet of things and DOTE sponsored E-yantra Robotics Laboratory which provides an opportunity to build, program and test robots, gaining a deeper understanding of Robotics principles.

The PSG Polytechnic College along with Schneider Electric India, Bengaluru jointly established "PSG- Schneider Electrician Training Centre" at PSG Polytechnic College. Laboratory is equipped with all Electrical Wiring and demo boards / mimic panels with necessary accessories and tools. With industry support the college has established Electric vehicle laboratory, PSG- Fuji Centre of excellence in Energy and Automation, Godrej home appliances Laboratory and Daiken centre of excellence in Air conditioning.

About the Department

The Department of Mechatronics was established in 1996 to cater the needs of modern industries where there is a requirement of personnel with skills in multiple fields such as Electrical, Electronics, Mechanical and Automation technologies. The Laboratories are continuously updated with latest equipment to enable the students to have "Hands on Training" on state of the art equipment.

It is also intended to develop a diverse set of skills, including mechanical design, electronics and electrical engineering, programming, control systems, and robotics. The Mechatronics programme is a specially designed, unique course, catering to the needs in the fields of automation, robotics, manufacturing and control systems. It prepares students to work on cutting edge technologies such as IoT, AI and Smart systems. It is also accredited by the National Board of Accreditation.

About the Theme

Rapid advancements in automation and artificial intelligence are fundamentally transforming the way industries and infrastructure systems are designed, operated, and optimized. Traditional control systems, once limited to fixed-rule and feedback-based mechanisms, are now evolving into intelligent, adaptive, and self-learning systems capable of responding to dynamic and complex real-world environments. The All India seminar on “Automate to Accelerate: AI Control Systems in Modern Industry and Infrastructure” aims to provide a comprehensive platform to explore the convergence of automation, artificial intelligence, and control engineering in contemporary industrial and infrastructure applications. This program focuses on how AI techniques such as machine learning, neural networks, fuzzy logic, and predictive analytics are being embedded into control architectures to enable smart manufacturing, autonomous systems, and intelligent infrastructure. This seminar addresses these emerging trends while highlighting practical case studies, industry practices, and future directions aligned with Industry 4.0 and Industry 5.0 paradigms. By bringing together IEI members, engineering students, faculty members, researchers, and industry professionals, the seminar seeks to foster awareness, knowledge exchange, and collaborative thinking in the domain of AI-enabled control systems.

Sub-Themes

- Evolution of Automation & Control Systems
- Modern Control Techniques
- PLC, SCADA & DCS in Smart Factories
- AI Basics for Engineers
- Predictive Control Systems
- Cyber-Physical Systems and Digital Twins
- AI & Automation in Infrastructure
- Autonomous Systems & Robotics
- IIoT and Cyber Security

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.dmt@psgpolytech.ac.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

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	**: 20.11.2026**
Paper acceptance intimation	**: 21.11.2026**
Last date for full paper submission:	**: 23.11.2026**
Last date of registration	**: 24.11.2026**

* Registration for the seminar can be made by sending the duly filled application through email or using the registration link on or before **24.11.2026.**

Registration Link: https://forms.gle/DVcueBZdmbBmNj2L6

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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Registration Form

All India Seminar
on

Automate to Accelerate: AI Control Systems in Modern Industry and Infrastructure

26-27 November 2026

Venue: I Block Seminar Hall
PSG Polytechnic College*, Coimbatore - 641004*

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**