

Information Brochure

The Institution of Engineers (India)

"A Century of Service to the Nation"

One Day Seminar
on

"Future Trends of AI in the Textile Industry"

12.08.2026

Organized by



The Institution of Engineers (India)

Coimbatore Local Centre

Under the aegis of

Textile Engineering Division Board, IEI

in association with



Department of Textile Technology

PSG Polytechnic College

(Autonomous and ISO 9001:2015 Certified Institution)

Coimbatore - 641004

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 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 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 is one of the oldest and most reputed diploma engineering institutions in Tamil Nadu, with a proud legacy spanning more than 87 years. Established in 1939 under the PSG & Sons' Charities trust, the institution is located at Peelamedu in Coimbatore District. The college is government-aided, AICTE-approved, NBA-accredited, and has held autonomous status since 1976, enabling it to design industry-oriented and future-focused curriculum. Founded as a pioneer in technical education and research, the institution is also ISO 9001:2015 certified and is widely recognized for its commitment to academic excellence, practical learning, and industry collaboration. The autonomous framework provides the flexibility to continuously update programmes in line with evolving technological and industrial requirements.

The campus at Peelamedu, Coimbatore offers a modern learning environment supported by advanced laboratories, workshops, and contemporary facilities that promote innovation, skill development, and hands-on technical education. One of the unique strengths of the institution is its mandatory industry-attachment programme, through which every student gains valuable exposure to industrial practices, workplace culture, and emerging technologies.

PSG Polytechnic College currently offers 15 Diploma Programmes across 11 departments, covering both core and emerging areas of engineering and technology to meet the demands of modern industries. With its enduring tradition of excellence, strong industry linkage, and focus on holistic technical education, the institution continues to produce technically competent, industry-ready professionals capable of innovation, adaptability, and leadership in the rapidly changing technological world.

About the Department

The Department of Textile Technology, PSG Polytechnic College has its origin as LTM during 1944. After few years it was revived as Diploma in Textile Technology in the year 1976 and in the same year PSG Polytechnic College has its autonomy. The curriculum imparts both theoretical and practical knowledge to the students in core areas such as Spinning, Weaving, Knitting, Chemical Processing, Garment Manufacturing, Textile Testing, Textile Mill Organization and Technical Textiles. Apart from their theoretical input, the students will undergo weekly industrial visits and six weeks advanced industrial training during their vacation period. This will facilitate them to get exposed to practical working in textile industry. During their final year of this program, students will carry out a project work related to problem solving in Textile industry

About the Theme

Artificial Intelligence (AI) will greatly change the textile industry in the coming years. In spinning, AI is used to check fiber quality and control yarn production in real time. This helps to maintain good quality and reduce defects. It also helps to identify machine problems early, reducing breakdowns and improving productivity. In textile processing, AI helps use resources better. It improves fabric cutting, reduces water and chemical use in dyeing, and supports recycling. AI systems can also quickly sort textile waste, which helps in recycling and reduces environmental damage. In the garment industry, automation and smart manufacturing are becoming common. AI-based machines and robots can inspect fabric, cut, and sew with high accuracy. This increases production speed, reduces human errors, and improves efficiency in factories. Personalization and mass

customization are also increasing. AI studies customer preferences and fashion trends to create customized garments. This allows made-to-order production, reduces extra stock, and matches production with demand. Smart textiles are another growing area. These are fabrics with sensors that can monitor health, track physical activity, and adjust to the environment. They are useful in healthcare, sports, and defense fields. AI also improves the supply chain by making it more transparent and efficient through real-time decisions. In addition, 3D body scanning uses AI to take accurate body measurements and create digital models for better garment fitting. This reduces fabric waste and improves customization. In conclusion, AI will make the textile industry more efficient, eco-friendly, and customer-focused, leading to a smart and advanced future.

Sub - Themes

- ❖ AI in Smart Textile Manufacturing and Automation
- ❖ AI-Based Fabric Defect Detection and Quality Control
- ❖ Predictive Maintenance in Textile Machinery using AI
- ❖ AI for Sustainable Textile Production and Waste Reduction
- ❖ AI in Textile Design and Product Development

Resource Persons

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

Eligibility

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

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 **06.08.2026**.

Registration Link: <https://forms.gle/p8EwYkJqA8mC4qir7>

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 to the participants
- ✓ Kindly bring your College / industry identity card
- ✓ Registration through email and registration link is compulsory
- ✓ Registration fee includes: refreshments, lunch & participation certificate

Chief Patron **Shri L Gopalakrishnan**
Managing Trustee, PSG Institutions, Coimbatore

Patron **Dr B Giriraj**
Principal, PSG Polytechnic College, 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 M Senthilkumar**
Head of the Department, Department of Textile Technology, PSG PTC

Members **Dr J Krishnamoorthi**, Immediate Past Chairman, IEI CLC
Dr G Madhan Mohan, Immediate Past Honorary Secretary, IEI CLC
Dr S Prabhakaran, Committee Member, IEI CLC
Mr K Saravanakumar, Committee Member, IEI CLC
Dr R Sivasankari, Committee Member, IEI CLC
Dr V V Senthil Kumar, Committee Member, IEI CLC
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Dr B SathishBabu, Lecturer (Sr.Gr.), Dept. of Textile Technology, PSG PTC
Dr A Sivakumar, Lecturer (Sr.Gr.), Dept. of Textile Technology, PSG PTC
Mr TK Rajasekaran, Lecturer, Dept. of Textile Technology, PSG PTC
Dr R Brindha, Lecturer, Dept. of Textile Technology, PSG PTC

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on
“Future Trends of AI in the Textile Industry”

Date: 12.08.2026

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

Registration Form

Name (in Block Letters) :

Designation :

Organization / Institution :

IEI Membership No. & Division :

Address for Communication :
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Mobile Number :

Email ID :

Registration Fee Paid (Rs.) :

Transaction Details :
UPI ID No / NEFT UTR No.

Transaction Date & Time :

Date:

.....

Signature