

The Institution of Engineers (India)

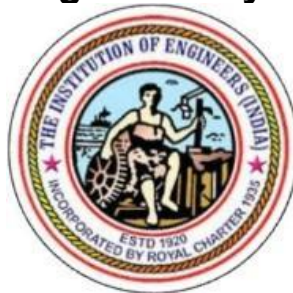
“A Century of Service to the Nation”

**ONE DAY SEMINAR
ON**

“Emerging Technologies Shaping Industry 5.0”

**ON
28th October 2026**

Organized by



**The Institution of Engineers (India)
GHAZIABAD LOCAL CENTRE**

Under the Aegis of
Electrical Engineering Division Board (ELDB), IEI

In association with



INDERPRASTHA ENGINEERING COLLEGE (IPEC), GHAZIABAD

&



GHAZIABAD MANAGEMENT ASSOCIATION (GMA)

**Venue
INDERPRASTHA ENGINEERING COLLEGE
63, Site-IV, Sahibabad Industrial Area, Ghaziabad,
Uttar Pradesh – 201010**

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 0.8 million. Established in 1920, with its headquarters at 8, Gokhale Road, Kolkata - 700020, IEI has served the engineering fraternity close to a century. In this period of time it 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 125 Centers 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.

IEI has been 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 Grants- in- Aid support to undergraduate and postgraduate students and Ph. D. Research Scholars of Engineering Institutions and Universities. IEI has been recognized as Scientific and Industrial Research Organization (SIRO) by the Ministry of Science and Technology, Government of India and besides conducting its own research provides Grants in Aid to UG/PG/ Ph.D students at Engineering institutes and Universities. IEI holds the International Professional Engineers (Int PE) 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 journals in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines. For details, please visit www.ieindia.org

ABOUT GHAZIABAD LOCAL CENTRE:

Ghaziabad Local Centre, one of the largest local centers of The Institution of Engineers (India) is in the proximity of Delhi, the capital city of India. It caters for the need of more than 3850 corporate members of the districts of Ghaziabad, Noida, Gautam Budh Nagar and Bulandshahr of Uttar Pradesh and several engineering institutions and Universities. GLC organizes technical activities in the form of seminars, workshops and lecture meetings on topics of importance and relevance from time to time. Besides, it also has been celebrating various statutory days for the benefit of corporate members and others. In all these programs it has been continuously interacting with the faculty and students of nearby institutions and Universities. GLC has released a Quarterly Newsletter and a Web page highlighting the technical activities of the Centre.

<https://sites.google.com/view/ieigzb>

ABOUT THE INDERPRASTHA ENGINEERING COLLEGE:

Inderprastha Engineering College, Ghaziabad (NAAC Accredited A+) is the preferred engineering college in Delhi NCR region for aspiring engineers and technocrats. It was established in the year 2000, by leading academicians and business leaders in North India, under the aegis of Shail Garg Shiksha Sansthan, a non-profit making society. As on date we are running Nine Under Graduate Programmes: B.Tech. Computer Science & Engineering, Computer Science & Engineering –Artificial Intelligence and Machine Learning, Computer Science & Engineering –Data Science, Computer Science & Engineering –Artificial Intelligence, Information Technology (NBA accredited), Electronics & Communication Engineering, Mechanical Engineering, Bachelor of Business Administration, Bachelor of Computer Application and three Post Graduate Programmes: M.Tech. Computer Science & Engineering, Master of Computer Applications (MCA) & Master of Business Administration (MBA). All programmes are affiliated to Dr. A. P. J. Abdul Kalam Technical University, Lucknow and approved by All India Council for Technical Education, New Delhi. At present, total student strength is 3000 in the Academic year 2026-27. The Institute focuses on Outcome Based Education (OBE), Practical Based Learning, Project Based Learning, and Skill Based Learning.

Apart from this the institute's priority is to focus on academics, innovation and entrepreneurship culture, employability, Industry Institute Interaction and Research. The institute always implements best practices prescribed by the University and Statutory Bodies. In the same line the institute has briefed the stakeholders regarding outcome-based education and National Education Policy 2020. IPEC has a rich alumni base of 18000+ students and best placement with 200+ recruiters with 26+ years of excellence and has now become a pioneer in the field of Technical Education, Extra-curricular activities, Placement offers, Campus, Faculty and other facilities. The institute tagline is "Shaping Engineers and Leaders for future".

ABOUT GHAZIABAD MANAGEMENT ASSOCIATION (GMA)

Aiming to inspire individuals to actualize their potential, Ghaziabad Management Association, an autonomous management association was set up in 1982 as a Registered Society under the aegis of late Shri Sitaram Jaipuria.

GMA has striven for management expertise that can synthesize Indian ethos with international management thought and practices since its inception. During the short span of its existence, GMA has taken deep roots in the industrial city of Ghaziabad and has become an important forum of the business executives and other members to share their experiences and ideas to further the cause of management. It is striving to outline the present and future problems concerning management, while looking for perfect harmony in human relationships, which can take many forms, such as corporate, employers, employees, customers, and the members of the society we live in and facilitate individuals and organizations to include best management programs.

It wouldn't have been possible without the strenuous efforts of Late Dr. C.B.Gupta, Ex Director of Institute of Management Technology & Founder President of GMA. The activities of GMA got a further fillip after securing the permanent affiliation to the Apex national body All India Management Association, New Delhi, and registered under Societies Act.

ABOUT THEME:

Emerging Technologies Shaping Industry 5.0 Artificial Intelligence IoT Smart Energy Communication Networks and Cybersecurity Industry 5.0 marks the next phase in industrial evolution by advancing beyond automation and digitalization towards a humancentric sustainable resilient and intelligent industrial ecosystem. While Industry 4.0 revolutionized manufacturing through automation data exchange and interconnected systems Industry 5.0 emphasizes the synergy between human creativity and advanced

technologies to develop innovative sustainable and socially responsible engineering solutions. The convergence of Artificial Intelligence AI the Internet of Things IoT Smart Energy Systems Advanced Communication Networks and Cybersecurity is fundamentally transforming industrial operations and engineering practices. AI enables intelligent automation predictive analytics machine learning computer vision and data driven decision making improving productivity operational efficiency and asset reliability across manufacturing power systems, transportation healthcare and smart infrastructure. Simultaneously IoT and Industrial IoT connect machines sensors and devices into intelligent cyber physical systems that facilitate real time monitoring predictive maintenance process optimization and autonomous operations.

Smart Energy technologies including renewable energy integration smart grids, Battery Energy Storage Systems BESS and intelligent energy management systems are driving the transition towards energy efficient low carbon and sustainable industrial development. Advanced communication technologies such as 5G emerging 6G networks cloud computing and edge computing provide the secure highspeed and low latency connectivity essential for modern industrial automation smart factories and digital ecosystems. As industries become increasingly interconnected Cybersecurity has become a critical enabler of Industry 5.0. Protecting industrial control systems operational technology OT communication networks and digital assets through robust cybersecurity frameworks AI assisted threat detection secure architectures and effective data governance is essential for ensuring operational resilience and digital trust. This one day seminar will provide a multidisciplinary platform for engineers academicians researchers, industry professionals and students to explore the latest technological advancements, practical applications challenges and future opportunities in Industry 5.0. Through expert lectures technical presentations case studies and interactive discussions, the seminar aims to foster innovation strengthen industry academia collaboration and equip participants with the knowledge and skills required to drive India transition towards a technologically advanced sustainable and globally competitive industrial future.

ABOUT SUB THEME:

-  Industry 5.0 Smart Manufacturing and Digital Transformation
-  Smart Energy Systems Smart Grids and Renewable Energy Technologies
-  Smart Cities Sustainable Infrastructure and Green Engineering.
-  Emerging Technologies, Engineering Innovation and Future Digital Ecosystems
-  Industrial Internet of Things IIoT Smart Sensors and Embedded Systems
-  Cybersecurity Digital Trust and Critical Infrastructure Protection

CALL FOR PAPERS:

Prospective authors are invited to submit their manuscripts reporting original research and recent developments in the topics related to the theme to reach the administrative office not later than 12th October 2026. Authors should send an Abstract up to 300 words to **ghaziabadlc@ieindia.org**. The final paper should be in the format available on the website **https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers** . All presented papers will be included in the proceedings of the Seminar.

CLOSING DATES FOR PAPERS:

-  Submission of Abstract: **10.10.2026**
-  Communication of Acceptance of Abstract: **12.10.2026**
-  Submission of Full Length Paper: **18.10.2026**
-  Seminar on: **28.10.2026**

REGISTRATION LINK & PAPER SUBMISSION:

<https://forms.gle/s9FUe2hY45p8YPJX7>



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