

# IEI NEWS

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A CENTURY OF SERVICE TO THE NATION

Volume 32

Number 4

## IEI Delegation Represents India at fib Technical Council, General Assembly, and Symposium

The Institution of Engineers (India), as the National Member Group (NMG) of the International Federation for Structural Concrete (fib), was represented by a two-member delegation at the fib Technical Council, General Assembly, and Symposium held in Antibes, France, from 14th to 18th June 2025. The delegation comprised Mr. VB Singh, President, IEI as the Head of Delegation and Mr. Sisir Kumar Banerjee, Past President, IEI and Deputy of the NMG.



(L-R) Dr. David Fernández-Ordóñez, Secretary General, fib; Mr.Sisir Banerjee, Past President, IEI; Dr.Iria Doniak, President, fib; Mr. VB Singh, President, IEI & Dr. Gyory Balazs, Dr. György Balázs, President, fib (2011-14)

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## From the President's Desk.....

### Rise of Localized Data Laws and AI Governance Frameworks



As Artificial Intelligence (AI) becomes more deeply embedded in our lives—from how we work and communicate to how decisions are made—concerns around data privacy, fairness, and accountability are rising rapidly. Technology is growing fast, and so must the systems that govern it.

India took a major step forward with the Digital Personal Data Protection (DPDP) Act, 2023. This landmark legislation aims to protect personal data and ensure that individuals have greater control over how their data is used. Earlier this year, the Draft DPDP Rules 2025 were released to elicit public comments. These rules cover important areas such as user consent, secure data handling, breach notification, and the introduction of “consent managers” to help people manage their digital rights more easily.

Globally, similar efforts are underway. The European Union’s AI Act, rolling out this year, introduces strong regulations for high-risk AI systems. The United Nations is urging countries to strengthen safeguards against AI-driven misinformation and deepfakes. Closer home, the Odisha Government has introduced AI officers in all departments, and SEBI has proposed a clear framework to govern AI use in financial markets.

These developments signal a powerful shift—technology must now be built with responsibility at its core. It is no longer just about innovation, but also about trust, transparency, and protection. As engineers, we are at the heart of this change. Whether we work with data, design intelligent systems, or develop infrastructure, we must now embed ethical thinking and compliance into every stage of development.

At The Institution of Engineers (India), we recognize this moment as both a challenge and an opportunity. Our aim must be to keep our members informed, prepared, and ahead of the curve. Through technical sessions, policy discussions, and knowledge-sharing platforms, we will continue to support India’s path toward a secure and inclusive digital future.

Let us approach this new era of data protection and AI governance with clarity and commitment. By designing systems that are not only smart but also safe, we can ensure that technology remains a tool for empowerment and progress.

## International Conference under the aegis of Computer Engineering Division Board

### Applications of AI and Machine Learning (ICAML-2025)



Punjab & Chandigarh State Centre, IEI, in collaboration with Jagat Guru Nanak Dev Punjab State Open University and the Association of Professionals organized an International Conference on the theme **Applications of AI and Machine Learning (ICAML-2025)** during 22-23 February, 2025, under the aegis of Computer Engineering Division Board (CPDB), IEI at Chandigarh. The Conference served as a platform for researchers, academicians and industry professionals to engage in high-level discourse on cutting-edge AI and ML

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# IEI Delegation Represents India at fib Technical Council, General Assembly, and Symposium

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The fib Technical Council convened its meetings on 14th and 15th June 2025, bringing together experts and national representatives to deliberate on technical developments and strategic initiatives across fib Commissions. Among the key outcomes was the establishment of a new Special Activity Group, SAG2, titled “Digitalisation and AI,” chaired by Ms. Sylvia Keßler. This group was tasked with drafting terms of reference and structuring subgroups to explore the role of artificial intelligence, large language models, and digital ethics in the domain of structural concrete. The Council also approved updates to various commissions and working parties. Commission 1 advanced work on the performance evaluation and service life extension of existing bridges. Commission 5 reorganized its leadership for key working parties on fibre-reinforced polymer (FRP) strengthening, while Commission 6 appointed new deputy chairs and progressed work on the social impact of precast concrete. Commission 8 confirmed new conveners and technical secretariats in the areas of durability and internal swelling reactions. Commission 10 finalised its leadership for the term 2026–27 and launched a new working party on the design of structures using alternative binder concretes.

The fib General Assembly took place on 15th June 2025 and was attended by the IEI delegation. As the highest decision-making body of the fib, the Assembly ratified key appointments, endorsed commission activities, and approved future planning directives. IEI’s participation in the General Assembly reinforced India’s active engagement in shaping international guidelines and contributing to the governance of the fib.

From 16th to 18th June 2025, the fib Symposium was held, drawing more than 600 delegates from over 40 countries. The Symposium theme, “Concrete Structures: Extend Lifespan, Limit Impacts,” reflected the global focus on sustainability and resilience in construction. The opening ceremony featured addresses by the co-chairs Dr. Claude Lequeré and Dr. Jean-Michel Torrenti, as well as fib President Dr. Iria Doniak. Distinguished individuals were recognized during the ceremony, including Dr. Konrad Bergmeister and Dr. Walter Kaufmann, who received the fib Medal of Merit 2025, and Dr. Avraham N. Dancygier, who was awarded fib Honorary Membership. Several fib Fellowships were also conferred on eminent engineers and researchers from across the globe, including Dr. Akio Kasuga and Dr. Beatrice Belletti.

An extensive technical programme was conducted throughout the Symposium, featuring a diverse array of expert-led presentations and thematic sessions that explored advancements and challenges in structural concrete. Highlights included Professor Kefei Li’s session on “Sulfate attack on structural concretes: from microscopic mechanisms to engineering

modeling,” and a joint presentation by Dr. Véronique Bouteiller (University Gustave Eiffel) and Dr. Patrick Rougeau (CERIB) on “Performance-based approach, durability of low carbon concrete and corrosion,” highlighting key outcomes of the French national project PERFDUB and contributions from the DECADES and DECISION scientific groups. V.N. Heggade presented insights from Indian practices in his session titled “Design and Construction of Bridges in India: lessons for practice to safe design.” Dr. Elisabeth Marie-Victoire (LRMH) addressed the intricacies of assessing and restoring historic concrete structures. Professor Beatrice Belletti shared findings on the “Structural capacity assessment of PC members subjected to different corrosion-induced damage scenarios.” A particularly significant session on nuclear waste disposal engineering was delivered by Stephan Schumacher and Dr. Thierry Lassabatere from ANDRA, who discussed the design of concrete structures for the long-term geological disposal of radioactive waste within the Cigéo project.



Mr. VB Singh, President, IEI, interacting with delegates from other countries in networking session

Alongside the core sessions, the fib Young Members Group hosted several interactive events designed to strengthen international cooperation among early-career professionals. The concluding session included a comprehensive summary of activities, a mentorship-driven panel discussion, and a dynamic networking platform, enabling participants to engage in meaningful cross-disciplinary dialogue and enhance their professional trajectories.

The closing session included addresses by fib Dr. President Iria Doniak and the co-chairs along with announcements about upcoming events. The IEI delegation, led by Mr. VB Singh, President of IEI, and Mr. Sisir Kumar Banerjee, Past President and Deputy of the NMG, took active part in all sessions and proceedings of the event.

## Know-Your-Member (KYM)

**Is your mobile number & e-mail updated with us ? If not, then please forward your Know-Your-Member (KYM) form immediately.**

You are requested to forward your KYM along with the self-attested copy of photo ID proof to the address given below:-

**Deputy Director (Membership)**

The Institution of Engineers (India)  
8 Gokhale Road, Kolkata 700020  
Email: [datamemb@ieindia.org](mailto:datamemb@ieindia.org)

The form is available on IEI Website <https://shorturl.at/8Q5tF> or scan the code:



## Recent Advances in Architectural Engineering and Digital Technologies for Tall Buildings

**Telangana State Centre, IEI**, in collaboration with Forum of Critical Utility Services (FOCUS), Hyderabad Chapter organized an All India Seminar on the topic **Recent Advances in Architectural Engineering and Digital Technologies for Tall Buildings** during 28-29 March, 2025, under the aegis of Architectural Engineering Division Board [ARDB], IEI at Hyderabad. The seminar brought together leading experts, industry professionals, academicians and stakeholders to deliberate on cutting-edge innovations and challenges in tall building design, construction technologies and digital transformation.



The Inaugural Session was graced by Smt Anila Vavilla, Vice Chairman & Managing Director, Telangana Renewable Energy Development Corporation Limited [TGREDCO], as the Chief Guest. In her address, she emphasized the importance of integrating sustainable and smart technologies in tall building design to meet modern urban demands. Guest of Honour, Er Dominic KP, Managing Director, Blue & Gray, Bengaluru, discussed the industry perspectives on contemporary high-rise developments and digital adaptation. Dr K V L Subramaniam, Professor, Department of Civil Engineering, IIT Hyderabad was the Keynote speaker.

Dr G Venkata Subbaiah, Chairman, Telangana State Centre, IEI welcomed the dignitaries and participants and presided over the Inaugural Session. He highlighted IEI's commitment to promoting technical advancement in civil and architectural engineering.

Dr S P Anchuri, Committee Member of the Centre and Convener of the Seminar, elaborated on the objectives and relevance of the Seminar. Ar Seetha Mahalaxmi, Secretary, FOCUS, introduced the Chief Guest and Keynote Speaker. Er A Ramachandra Raju, Regional Head, FOCUS, provided an overview of FOCUS and its role in promoting interdisciplinary collaboration. Dr K Seetha Ram Babu, Honorary Secretary, Telangana State Centre, IEI delivered the vote of thanks, acknowledging contributions of all dignitaries and participants.

Dr K V L Subramaniam delivered the Keynote address on recent advances in architectural engineering and digital technologies, laying a strong foundation for the seminar's technical sessions.

Various Invited Papers and Lectures were delivered during the technical sessions.

The first Technical Session on 'Architectural Design and Structural Systems for Tall Buildings' was chaired by Dr V V Krishna Reddy, Continental

Consultants and Dr D Rupesh Kumar, Professor, Osmania University was the Rapporteur. Dr K V L Subramaniam, IIT Hyderabad delivered an Invited lecture. The paper presenters were Ar P Nishanth, Morphemy Architects, Hyderabad and Mr P S Rahul, Managing Director, RWDI.

The second Technical Session on 'MEP Systems and Sustainability in Tall Buildings' was chaired by Dr D Hanumantha Chary, Past Chairman, Andhra Pradesh State Centre, IEI and Ar Venu Gopal, Venu Associates was the session Rapporteur. The Invited Talk was presented by Er P Kshemndra Nath, Managing Director, Resilient Concrete Solutions Private Limited, Mumbai and the paper presenters were Er R M Rajasekhara, Tata Institute of Fundamental Research and Ms Sneha Sabu, Senior Manager, Colliers.

The third Technical Session on 'Fire Safety, Risk Management and Vertical Transportation' was chaired by Er B Brahma Reddy, Immediate Past Chairman, Telangana State Centre, IEI and Er Ambadas Goud, Amba Associates Planners and Designers was the Rapporteur. The Invited Talk was presented by Dr Venkatesh Kodur, University Distinguished Professor, Civil and Environmental Engineering, Michigan State University, USA. The paper presenters were Er Jagadish Kumar, Director and Principal Consultant, L'Avenir Lift Consultancy Private Limited, Bengaluru and Er Naresh Yadav, Amogah Associates, Hyderabad.

The fourth Technical Session on 'Digital Twinning, BIM, and Integrated Building Technologies' was chaired by Er C Sumanth Reddy, Director, Protect India and Er Karanam Bheem Rao J, Vice Chairman, Association of Consulting Civil Engineers(India). The Invited Talk was presented by Er Sunil Reddy, Protech India, Hyderabad. Papers were presented by Er Ashok Kumar, Founder and CEO, Construction Management Training Institute, Bengaluru and Er Ram Babu Cheruvu, Managing Director, CMAC India Private Limited, Hyderabad.

The fifth Technical Session on 'Planning a City in the Sky – Future Trends in Tall Buildings: Innovations and Smart Cities' was chaired by Shri Dhanunjai Bhasker Rao G, DBG Marketing and Dr J Srkalyana Rama, Associate Professor, Mahindra University was the Rapporteur. The Speaker was Mr Raji Bhami, Director, Eminent International Testing Centre and the paper presenter was Dr S P Anchuri, Convener of the Event & Chairman, FOCUS Hyderabad

The sixth and final Technical Session on 'Case Studies and Lessons from Iconic Tall Buildings' was chaired by Er Y Narasimha Rao, Chief Consulting Engineer and Mr M Vema Reddy, Partner, AEMS Engineers was the Rapporteur. The paper presenter was Er Syed Majid Hashmi, MD, KHM Engineering, Mumbai.

During the valedictory session, Er S L N Sastry, Former University Engineer, IIIT Hyderabad, graced the occasion as Chief Guest and addressed the gathering, reflecting on the quality of discussions and the relevance of the seminar's theme. Dr G Venkata Subbaiah, Chairman of the centre presided over the session. Dr Ramesh, Chairman, Technical Committee, presented the seminar recommendations. Ar Seetha Mahalaxmi, Secretary, FOCUS, introduced the Chief Guest. Dr K Seetha Ram Babu, Honorary Secretary of the centre delivered the final vote of thanks, concluding the two-day technical event on a high note.

### Discount at the Samsung e-store for IEI Corporate Members

Exclusive access to the Samsung e-store for IEI Corporate Members. This shall enable the Corporate Members to procure the Samsung Products at a discounted rate. The Samsung e-store can be accessed at [www.samsung.com/in/multistore/iei](http://www.samsung.com/in/multistore/iei) using your Membership No. and email id/Mobile Number.

## Trends in Advanced Building Construction and Innovative Building Materials

Rourkela Local Centre, IEI, in association with National Institute of Technology, Rourkela organized an All India Seminar on the theme **Trends in Advanced Building Construction and Innovative Building Materials** during



01-02 March, 2025, under the aegis of Architectural Engineering Division Board [ARDB], IEI at Rourkela. The event aimed to explore and promote advancements in construction technologies and building materials that align with sustainability, safety and innovation.

The Chief Patron, Prof Pradeep Sarkar, Director-in-Charge, NIT Rourkela addressed the gathering, highlighting the importance of research and development in the field of modern construction. The Guest of Honour, Er Bijay Kumar Jojo, Chief General Manager, Town Engineering & Horticulture, SAIL, Rourkela Steel Plant emphasized practical insights into smart urban infrastructure development.

The Seminar commenced with a welcome address by Er Santosh Kumar Polaki, Chairman, Rourkela Local Centre, IEI who underlined the role of modern techniques in improving construction quality and efficiency.

Eleven insightful Keynote speeches were delivered by eminent experts from academia and industry. Prof Ankur Baghel, Assistant Professor, Department of Planning and Architecture, NIT Rourkela delivered Keynote lecture on 'Advanced Structural Systems'; Ar Jogesh Chatria & Ar Sharang Patel, Assistant Town Planners, Rourkela Municipal Corporation on 'Development of Rourkela through Smart City Strategies'; Prof Mohd Nauman Nizamuddin, Assistant Professor, Department of Planning and Architecture, NIT Rourkela on 'Building Design for Fire and Life Safety:'

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## Applications of AI and Machine Learning (ICAML-2025)

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technologies and their real-world applications across domains such as healthcare, smart infrastructure, cyber security and more. The Conference observed participation of delegates from USA, Ethiopia, South Africa, Romania and other countries, reinforcing its international significance.

Dr Renu Vig, Vice Chancellor, Punjab University, Chandigarh graced the function as the Chief Guest. Dr Ravinder Singh Zandu, Head of Digital and Systems Team, Cabinet Office London (UK), Government of Commercial Function, UK was the Guest of Honour.

The Chief Guest, Dr Renu Vig, inaugurated the Conference, and emphasized the potential of AI/ML in societal transformation and encouraged participants to explore collaborative research opportunities. The Guest of Honour, Dr Ravinder Singh Zandu, discussed the critical importance of clean and unbiased data in developing trustworthy AI systems. He elaborated on data-related challenges and ethical issues in AI. He explained the sources of bias in AI models and discussed, how biased datasets can affect model accuracy, fairness and generalizability, making AI systems prone to unintended consequences.

Earlier, Prof (Dr) Baljit Singh Khehra, Chairman, Punjab & Chandigarh State Centre, IEI delivered the welcome address and provided an overview of the Conference theme, highlighting the transformative potential of AI and ML in solving modern engineering problems.

Dr Harpreet Singh, Professor, Wayne State University, USA delivered the Keynote address on 'Impact of Artificial Intelligence on Modern Industries and Future Research Challenges'. He spoke about the transformative impact of AI on industry sectors and research frontiers, addressing future challenges such as explainable AI and AI in secure environments. Additionally, he discussed the ethical considerations, data privacy concerns and the challenges associated with AI adoption in different industries.

Prof Valentina E Balas, University of Arad, Romania delivered a Keynote lecture on the application of Neural Networks, Fuzzy Systems and role of AI in smart environment. She emphasized the relevance of AI in intelligent automation and real-time decision-making systems.

Prof (Dr) T S Kamal, Former Vice President, IEI, Er Sukhvir Singh Mundi, Immediate Past Vice President, IEI were also graced the occasion providing expert insights and support for the Conference initiatives. Abstract proceedings and the Conference poster were released during the event.

The Technical Session was organized in six technical tracks namely 'Healthcare & Biomedical Applications', 'Smart Cities & Urban Analytics', 'Agriculture & Environmental Sciences', 'Natural Language Processing (NLP)', 'Computer Vision & Image Processing' and 'Cyber Security & Privacy'.

A total of 51 research papers were presented, addressing a wide spectrum of AI applications such as 'Real-time Patient Monitoring using AIML'; AI assisted Intraoral Image Analysis'; 'Traffic Management using ML'; 'AI in Video Surveillance, Metaverse and Blockchain Systems'; 'Deep Learning in Medical Imaging and Early Disease Detection'; 'AI-based Pothole and Infrastructure Analysis', 'Driverless Cars, Cyber Security and Facial Emotion Recognition' etc. Each session was moderated by expert chairs and rapporteurs who facilitated high-quality discussions and feedback.

During the valedictory function, Dr Lalit Awasthi, Vice Chancellor, Sardar Patel University, Mandi, Himachal Pradesh graced the occasion as the Chief Guest. In his address, he highlighted the transformational impact of AI and machine Learning across various sectors including healthcare, cyber security and smart infrastructure. He lauded the contributions made during the Conference and stressed the need for ethical, bias-free AI and interdisciplinary collaboration.

The Guest of Honour, Dr Raman Maini, Director, MMTTC, Punjabi University Patiala and Professor, Department of Computer Science and Engineering, Punjabi University, Patiala emphasized data privacy, explainability and regulatory frameworks for trustworthy AI systems. He highlighted the critical need for transparency, fairness and accountability in AI models to prevent bias and ensure equitable decision making.

The International event successfully bridged the gap between industry and academia, fostering meaningful collaborations and discussions on the future of AI and ML and observed the overwhelming response and insightful contributions from the experts, dignitaries and participants.

## Innovations and Research in Artificial Intelligence & Machine Learning

Jharkhand State Centre, IEI, organized an All India Seminar on **Innovations and Research in Artificial Intelligence & Machine Learning** during 01-02 March, 2025, under the aegis of Computer Engineering Division Board [CPDB], IEI at Ranchi. The event brought together academicians, researchers, professionals from PSUs, IT industries and students to discuss recent innovations, challenges and future prospects in AI and ML. The Seminar acted as a significant platform for fostering collaboration, promoting ethical AI practices and advancing research in emerging technologies.

Chief Guest of the session, Prof Raman Kumar Jha, Former Vice Chancellor, ICFAI University, delivered an insightful address on the role of AI and ML in revolutionizing both industry and personal lives by automating tasks, improving efficiency and transforming operations. Guest of Honour, Er Suresh Behera, General Manager (System), Central Coalfields Limited discussed the technical evolution of AI, focusing on Large Language Models (LLMs), Deep Learning and their dependency on computational power and data availability.

Earlier, Dr Mahesh Kumar Gupta, Chairman, Jharkhand State Centre, IEI welcomed all delegates, dignitaries and participants, emphasizing the relevance of AI & ML in today's rapidly advancing world. Mr Ashok Kumar, Technical Manager, Kyndryl India (formerly IBM), served as the Keynote Speaker who explained foundational AI / ML concepts and delved into their application in cyber security. He highlighted how AI is driving advancements in digital security through automation and intelligent decision-making. Er Kunal Sinha, Organizing Secretary and Convener provided a brief overview of the seminar theme, its importance in current industrial applications and future research trends. Er Harun Ansari, Honorary Secretary, Jharkhand State Centre, IEI felicitated dignitaries and proposed the vote of thanks for the inaugural session.

The first Technical Session was chaired by Dr Biresh Kumar, Associate Professor, AIIT, Amity University, Ranchi. Rapporteur of the session was Er Shantanu Virnave, Assistant Professor, NETGi, Ranchi. Papers were presented on the topics 'LSTM-based Weather Prediction', 'Analysing and Implementing AI-driven Cloud-based Personalisation System' and 'AI in Manufacturing & Predictive Maintenance – Using ML for Equipment Failure Prediction and Optimizing Operations'.

The second technical session was chaired by Dr Kumar Amrendra, Assistant Professor, Jharkhand Rai University, Ranchi. Rapporteur of the

session was Mr Mohan Kumar Dehury, AIIT, Amity University, Ranchi. Papers were presented on the topics 'Empowering Small and Medium sized Businesses with Wireless Solutions: A Holistic Approach to Cyber Security Resilience and Machine Learning'; 'Hybrid Deep Learning for Accurate Weather Forecasting: Integrating LSTM and XG Boost for Enhanced Predictions'; 'NLP for Sentiment Analysis in Social Media'; 'Enhancing Precision and Efficiency in Medical Operations and Surgery using Machine Learning, Augmented Reality and Virtual Reality'; and 'Crop Recommendation System and Crop Leaf Disease Detection System using Machine Learning'.



The third technical session was chaired by Mrs Anuradha Sharma, Assistant Professor,

Jharkhand Rai University, Ranchi. Mr Chandray Soren, Assistant Professor, Jharkhand Rai University was the Rapporteur. Presentations obtained on the topics, 'A Study on Privacy & Security Challenges in Voice Assistant Technologies'; 'IoT Enabled and Machine Learning Powered Vertical Farming: In Depth Review of Intelligent Agriculture System'; 'Text-to-Image Generation using AI Model'; 'Phishing Website Detection Using ML Algorithms'; 'Smart Dustbin Using AI' and 'Beyond Automation exploring the Power of Generative AI in Enterprises' were delivered by various speakers.

The valedictory session featured Er Sanjay Sen, Past Chairman, Jharkhand State Centre, IEI and Council Member, IEI, who addressed the audience with reflective remarks on the seminar's success. Sri C S Tiwari, Director Technical (Designate), CCL, Ranchi served as the Chief Guest and shared a visionary note on AI's industrial future. Er Kunal Sinha, Organizing Secretary, offered the concluding remarks. Er M R Kumar, Past Honorary Secretary and EC Member, Jharkhand State Centre, IEI proposed the formal vote of thanks.

The seminar underscored the transformative impact of AI and ML across industries such as healthcare, education, governance and cyber security. It called for continued investment in AI research and ethical frameworks, Cross-sector collaboration among academia, government and industry, Development of inclusive AI policies for societal benefit and Training and capacity-building in AI technologies across institutions. The seminar played a crucial role in facilitating high-level discussions and paving the way for innovation-driven development in Artificial Intelligence and Machine Learning.

### Superannuation from IEI

Mr Alope Majumder, an employee of the Institution HQ was superannuated from the services of IEI on 31 July 2025. He joined the Institution on 07 May 1997 and rendered his services to the Institution over a period of 28 years.

IEI wishes Mr Alope Majumder and his family a happy and healthy life in the future.



Mr Murlidhar, an employee of the IEI HQ Cell, New Delhi was superannuated from the services of IEI on 31 July 2025. He joined the Institution on 13 December 2011 and rendered his services to the Institution over a period of 13 years.

IEI wishes Mr Murlidhar and his family a happy and healthy life in the future.



## Generative AI in Virtual Reality

Kanchepuram Local Centre, IEI, in collaboration with the Department of Computer Science and Engineering, Sri Sairam Engineering College, Chennai organized an All India Seminar on the theme **Generative AI in Virtual Reality** during 04-05 February, 2025, under the aegis of Computer Engineering Division Board [CPDB], IEI at Chennai. The seminar aimed to provide an in-depth exploration of the convergence of Generative AI and Virtual Reality technologies and their growing applications in industry, research and innovation. The event served as a knowledge-sharing platform, bringing together experts from academia, industry professionals and students.

Dr B Latha, Head, Department of Computer Science and Engineering, Sri Sairam Engineering College inaugurated the event and delivered the inaugural address. She emphasized the emerging role of AI and VR in shaping modern computing landscapes and the need for interdisciplinary learning. Dr S Ramesh, Chairman and Dr S Karthikeyan, Honorary Secretary, Kanchipuram Local Centre were present on the occasion.

Several technical talks and presentations were delivered by distinguished professionals during the Seminar. Mr Adhish Sekar, Data Scientist, Intellect Design Arena Limited shared his expertise through the topic 'Innovations in Generative AI for Virtual Environments', where he presented insights on recent breakthroughs and applications of generative models in virtual settings, highlighting use cases across design and simulation. Mr Adarsh,

AI Engineer, NobIQ deliberated on 'AI-Powered Immersive Experiences in Virtual Reality', when the session covered how AI enhances VR user engagement through real-time learning and personalized environments. Mr Vasanth Kumar, Senior Sales & Marketing Executive, SatoriXR Private Limited spoke on 'The Future of AI-Driven Virtual Reality Marketing' and discussed the integration of AI with immersive marketing strategies and user analytics in virtual ecosystems. Dr P Malliga, Professor & Head, Department of CSE, NITTTR Chennai on "Machine Learning for Adaptive VR Applications" whose presentation addressed ML-driven adaptive systems in virtual learning and industrial training environments.



During the valedictory session, Dr J Raja, Principal, Sri Sairam Engineering College delivered the valedictory address, reflecting on the success of the seminar and the importance of interdisciplinary collaboration.

A special address was delivered by Dr S Ramesh, Chairman, Kanchepuram Local Centre, IEI who spoke on the transformative potential of AI-powered VR in shaping the future of innovation and digital experiences.

The All India Seminar successfully facilitated dialogue between academia and industry, offering deep insights into current research, challenges and future directions of AI and VR integration. The sessions promoted the importance of developing intelligent, immersive technologies and encouraged collaborative exploration in the digital innovation landscape.

## Trends in Advanced Building Construction and Innovative Building Materials

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A Code-compliant Approach based on NBC 2016 [Part IV]'; Ar Gautam Kumar Agrawal, Principal Architect, Prakruti Vastukala, Bhubaneshwar on 'Sustainable Building Materials in Modern Architecture'; Mr Sarobindu Mohanta, Team Lead, FICCI (BEE PAT Scheme, Ministry of Power, Govt of India) & Indian Green Building Council - Accredited Professional (IGBC-AP) on Energy Conservation Building Code [ECBC], Indian Carbon Market & various Financial Instruments'; Prof Binit Kumar, Assistant Professor, Department of Planning and Architecture, NIT Rourkela on 'Energy Efficient Buildings'; Representatives from TATA Steel on 'Use of Fiber Reinforced Plastics (FRP) as an Alternative of Reinforcement Bars'; Ar Abhishek Das, Associate Member, Indian Institute of Architects (IIA) Rourkela Centre on 'Feasibility Study on uses of Banded Hematite Jasper (BHJ) as a new Building Material'; Prof Simantini Behera, Assistant Professor, Department of Planning and Architecture, NIT Rourkela on 'Bricks from Waste Materials'; Er Sumit Chanduka, SAANVI Enterprises on 'Reshaping the landscape of Home Interiors with Technology' and Er Pratik Agarwal, Think Play Box on 'Building a Greener Future'. In addition to Keynote lectures, five technical papers were presented during the technical sessions, engaging participants in thought-provoking discussions and practical innovations in construction. For further details of technical sessions, kindly refer the link

<https://shorturl.at/Rx4Zt>

The concluding session saw vibrant discussions leading to valuable recommendations and suggestions across various sub-themes. These included sustainable practices, alternative materials and policy-driven frameworks for green construction. The vote of thanks was presented by Dr Ajit Behera, Honorary Secretary, Rourkela Local Centre, IEI. Recommendations emanating from the Seminar are as follows.

*Adoption of digital tools in construction be encouraged, which include Business Information Modelling; Strict adherence to NBC 2016 continuously be monitored for fire safety and life protection to ensure robust building design, that mitigate fire hazards and enhance occupant safety; Large scale implementation of eco-friendly materials be accelerated including fibre reinforced plastics, bricks from waste materials to reduce environmental impact and promote green construction practices; Wider implementation of ECBC and participation in the Indian Carbon market to minimise carbon foot prints need to be emphasized and monitored; The Smart City strategies for urban development need to be integrated by leveraging innovative building designs, renewable energy solutions and data driven urban management systems; The seminar was attended by a large number of members, industry professionals, academicians and students, making it a grand success and a rich knowledge-sharing platform.*

## Integrating Artificial Intelligence for Energy Efficiency and Sustainability in Chemical Processes

**Coimbatore Local Centre, IEI**, in collaboration with the Department of Chemical Engineering, KPR Institute of Engineering and Technology (KPRIET), Coimbatore organized a One-Day Seminar on **Integrating Artificial Intelligence for Energy Efficiency and Sustainability in Chemical Processes** on 25 April 2025 under the aegis of Chemical Engineering Division Board [CHDB] at KPR Institute of Engineering and Technology, Coimbatore. The Seminar aimed to explore the transformative role of Artificial Intelligence (AI) in promoting energy efficiency and sustainability in chemical engineering practices through expert talks and technical discussions.

Prof (Dr) Madhan Mohan Gopalsamy, Honorary Secretary, Coimbatore Local Centre, IEI welcomed the gathering during the inaugural session and also highlighted the relevance of the seminar theme in the context of present-day industrial and environmental challenges through interdisciplinary innovation. Dr S Balasubramanian, Professor and Head, Department of Chemical Engineering, KPRIET presented an overview of the Seminar, underlining the need to integrate AI technologies into chemical processes to enhance efficiency, reduce emissions and build a sustainable future.

Dr Murali Rangarajan, Professor, Department of Chemical Engineering & Materials Science, Amrita Vishwa Vidyapeetham, Coimbatore graced the occasion as the Chief Guest. He emphasized the game-changing impact of AI in chemical process optimization, resource utilization, minimizing environmental impact and accelerating the development of green technologies including applications in machine learning, digital twins, predictive maintenance and process automation. He further stressed the importance of combining chemical engineering knowledge with AI-driven methodologies to meet environmental and energy goals.

Various invited lectures were presented during the technical session. Dr Murali Rangarajan delivered Invited lecture on 'Utilizing Artificial Intelligence for Designing Efficient and Sustainable Chemical Processes'. He began by explaining the critical need for sustainable development in the chemical industry and how traditional process design must evolve to meet global energy and environmental challenges. Dr Rangarajan elaborated the role of AI techniques including machine learning, deep learning, and optimization algorithms in enabling smarter process design, real-time monitoring, predictive maintenance, and dynamic control of chemical systems.

He illustrated how AI models can efficiently predict reaction kinetics, optimize reactor designs, reduce energy consumption, and minimize waste generation, ultimately leading to greener and more cost-effective solutions. Further, he shared case studies and research insights demonstrating successful AI applications in chemical manufacturing, emphasizing the synergy between domain expertise and data-driven decision-making. Dr Rangarajan concluded by encouraging participants to build foundational knowledge in both chemical engineering and artificial intelligence, highlighting the future need for hybrid skill sets to drive innovation toward a sustainable industrial future.

Dr Virivinti Nagajyothi, Assistant Professor, Department of Chemical Engineering, NIT Tiruchirapalli delivered Invited lecture on 'Fuzzy Logic and Neural Networks in Chemical Process Systems'. She began by introducing the fundamentals of fuzzy logic and neural networks, emphasizing their

significance in handling the complexities and nonlinearities inherent in chemical process systems.

Dr. Nagajyothi explained how fuzzy logic provides a powerful framework for dealing with uncertainties and imprecise information, enabling better decision-making in process control and optimization.

She further elaborated on how artificial neural networks (ANNs) can model complex process behaviors, predict system performance, and assist in fault diagnosis and control strategies.

Several real-world applications and case studies were discussed, showcasing how fuzzy logic controllers and neural network models have been successfully implemented to improve process stability, efficiency, and sustainability. Concluding her talk, Dr Nagajyothi highlighted the future potential of combining fuzzy logic and neural networks with advanced data analytics to drive innovation in the chemical industry.

Dr Nandeesh Kumar, Chief Operating Officer, Navigate Labs, Coimbatore spoke on 'AI for Environment and Energy Applications'. He discussed how Artificial Intelligence is emerging as a transformative tool in addressing

environmental challenges and optimizing energy systems. Dr Kumar elaborated on the application of AI techniques such as predictive analytics, machine learning models, and intelligent sensors in areas like air and water quality monitoring, renewable energy integration, smart grid management, and energy conservation strategies. He shared examples of successful AI-driven environmental monitoring systems and smart energy management platforms, demonstrating their impact on improving operational efficiency, reducing carbon emissions, and promoting sustainability.

The session emphasized the importance of interdisciplinary collaboration between engineers, environmental scientists, and data analysts to maximize the benefits of AI for a greener future. Dr Kumar concluded by encouraging students and researchers to explore AI-based innovations that can lead to scalable, impactful solutions for global environmental and energy challenges.

Dr Kothai Ganesan, Assistant Professor, Department of Computer Science and Engineering (AIML), KPRIET delivered lecture on 'Empowering Sustainability: Leveraging Artificial Intelligence Enhanced Energy Efficiency'. In her lecture, she highlighted the pivotal role that Artificial Intelligence plays in advancing sustainability initiatives, particularly through the optimization of energy usage across various sectors. Dr Kothai explained how AI-driven tools such as predictive analytics, machine learning algorithms, and intelligent control systems can significantly improve energy efficiency, reduce operational costs, and minimize environmental impact. The session also covered real-world case studies where AI applications led to smarter energy management in industries, smart grids, and building systems. She emphasized the integration of AI with Internet of Things (IoT) technologies for real-time monitoring and adaptive control, fostering a more sustainable and energy-conscious future. Dr Kothai encouraged participants to embrace AI as a catalyst for innovation, stressing the need for interdisciplinary collaboration to drive impactful sustainability solutions.

The session reflected the key learnings from the expert lectures and reinforced the importance of embracing AI for sustainable progress in chemical engineering. The organizers expressed gratitude to all stakeholders for their enthusiastic participation and support.



## Resources for Power Plant Design

**Bareilly Local Centre, IEI** organized a One Day Seminar on the theme **Resources for Power Plant Design** on 11 April 2025 under the aegis of Mechanical Engineering Division Board [MCDB] at Rajshree Institute of Management & Technology, Bareilly. The Seminar aimed to explore the modern resources, technologies and sustainable strategies essential for designing efficient and future-ready power plants.

The Seminar began with an inaugural address delivered by Prof (Dr) Pankaj Kumar Sharma, Chairman, Bareilly Local Centre, IEI. Dr Sharma emphasized the growing significance of sustainable and efficient power plant designs in light of the evolving energy landscape. He highlighted the need for innovation, technological adoption and collaboration among stakeholders to meet the energy needs of the future while addressing environmental concerns.

Er Varun Verma, Organizing Secretary and Assistant Professor, Civil Engineering Department, Rajshree Institute of Management & Technology, welcomed all the guests and participants and acknowledged the contributions of the speakers and the importance of such knowledge-sharing platforms.

Dr Ruchit Jain, Head, Computer Science Department, Rajshree Institute of Management & Technology, Bareilly conducted an enlightening technical session. His session highlighted the integration of computational tools, data analytics, and emerging technologies like AI and IoT in optimizing power plant design and operation. Dr. Jain emphasized the critical role of software modeling, simulation, and real-time monitoring systems in enhancing efficiency, reducing downtime, and supporting sustainable energy practices. The participants greatly benefited from his practical insights and real-world applications, which bridged the gap between traditional mechanical systems and modern computational approaches. His interactive approach and clear articulation left a lasting impact on the audience, making the session both informative and inspiring. His contribution significantly enriched the seminar's objectives and broadened its interdisciplinary scope.

Dr Vishal Saxena, Assistant Professor, Department of Mechanical Engineering, Mahatma Jyotiba Phule Rohilkhand University [MJPRU], Bareilly delivered Keynote lecture on 'Environmental Impact & Sustainability'. He mentioned that the growing concern over climate change, resource depletion, and pollution has driven industries to adopt greener alternatives and cleaner technologies; Sustainable design emphasizes energy efficiency, waste reduction, and the use of renewable materials; In power generation, there's a marked shift towards low-emission fuels, carbon capture, and eco-friendly plant operations; Environmental assessments are now integral to project planning, ensuring minimal harm to ecosystems. Moreover, circular economy principles, like reuse, recycling, and resource recovery are gaining traction. Public awareness and stricter environmental regulations further encourage industries to innovate sustainably. Ultimately, achieving long-term environmental balance requires collaborative efforts, continuous innovation, and a commitment to responsible development that meets present needs without compromising the future.

Dr Chhavi Sharma, Assistant Professor, Department of Electronics & Communication Engineering, MJPRU, Bareilly deliberated on 'Resources for Power Plant Design'. She explained that the future of resources for power plant design is geared towards sustainability, efficiency, and digital integration; Renewable energy sources like solar, wind, and biomass are increasingly being incorporated into hybrid plant models, reducing reliance on fossil fuels; Advanced materials, smart sensors, and AI-driven analytics are enhancing system reliability and performance; Modular and scalable designs, along with real-time monitoring, are enabling flexible responses to energy demands; Digital twins and simulation tools allow predictive maintenance and optimization before physical deployment; Environmental

considerations and regulatory compliance are also shaping design strategies, ensuring minimal ecological impact. Collaboration between mechanical, computer, and environmental engineers is becoming crucial. With rapid technological advancement, the power plants of the future are expected to be greener, smarter, and more adaptive to global energy challenges.

Er Shreyash Chaudhary, Assistant Professor, Department of Mechanical Engineering, Rajshree Institute of Management & Technology, Bareilly delivered an Invited Lecture on 'Resources for Power Plant Design'. He highlighted about the emphasis on modular and flexible designs to meet dynamic energy demands. As the world moves towards clean energy goals, power plant design must balance technological advancement with ecological stewardship, ensuring reliable, efficient, and green energy solutions for future generations, he added.



Mr Kapil Gangwar, Rajshree Institute of Management & Technology, Bareilly

mentioned that Environmental Impact & Sustainability have become vital considerations in today's industrial and technological advancements, when the focus is shifting from short-term growth to long-term ecological balance. Sustainable practices aim to minimize pollution, reduce carbon emissions, and preserve natural resources. Green technologies, renewable energy adoption, and waste management innovations are key drivers of change; Environmental impact assessments are now essential in planning, ensuring that development does not come at the cost of biodiversity or public health'. Sustainability also involves social responsibility, ethical resource use, and intergenerational equity. By embracing eco-friendly solutions, society moves closer to a cleaner, healthier, and more resilient future that balances human progress with nature's preservation.

Mr Shekhar Saxena from Rajshree Institute of Management & Technology, Bareilly delivered lecture on 'Automation & Smart Grid Integration'. It was deliberated that automated systems enable real-time monitoring, predictive maintenance, and streamlined operations. Smart grids integrate renewable energy sources, balance load demands, and support decentralized power generation. With advanced communication networks and data analytics, they ensure optimal energy distribution and quick fault detection. Together, they form the backbone of a modern, intelligent energy infrastructure that supports sustainability and meets the evolving needs of consumers and industries.

Dr C P Gagnwar, Principal, Rajshree Polytechnic, Bareilly delivered presentation on 'Fuel Resources & Combustion Technologies'. He explained that fuel resources & combustion technologies play a crucial role in efficient power generation. While traditional fossil fuels remain significant, there is a growing shift towards cleaner alternatives like natural gas, biomass, and hydrogen. Modern combustion technologies focus on reducing emissions, improving thermal efficiency, and supporting carbon capture. Innovation in this field is vital for achieving energy security while minimizing environmental impact and advancing toward a sustainable energy future.

At the conclusion of the seminar, Er Varun Verma, Organizing Secretary, expressed heartfelt gratitude to all the speakers, participants and organizing members for their valuable contributions and active involvement. All distinguished speakers were felicitated with certificates and mementos by the Chairman and other senior engineers of Bareilly Local Centre, IEI.

The Seminar successfully brought together experts from multiple disciplines to deliberate on the innovations, challenges and sustainability aspects of modern power plant systems. The insightful sessions and interactive discussions laid a strong foundation for future collaborations and innovation in energy engineering.

## Exploring AI and Large Language Models: Innovations and Future Prospects

**Jammu & Kashmir State Centre, IEI**, in collaboration with the National Institute of Technology Srinagar successfully organized a One Day Workshop on the theme **Exploring AI and Large Language Models: Innovations and Future Prospects** on 17 March 2025 under the aegis of Computer Engineering Division Board [CPDB] at NIT Srinagar. The workshop aimed to promote interdisciplinary learning and foster meaningful dialogue around the development, applications and implications of Artificial Intelligence (AI), particularly focusing on Large Language Models (LLMs) such as Generative Pre-trained Transformers (GPTs). The event brought together a diverse audience of engineers, academicians, students, researchers and professionals to explore cutting-edge innovations and discuss future trajectories of AI technologies.

Er Iftikhar Ahmad Hakim, Chairman, Jammu & Kashmir State Centre, IEI welcomed all participants and emphasized the pivotal role of AI in shaping the future of engineering, automation and digital transformation. He also highlighted the relevance of organizing such workshops to bridge the knowledge gap between academia and industry and encouraged participants to engage deeply with emerging AI tools.

Dr Jahangeer Ali, Honorary Secretary, Jammu & Kashmir State Centre, IEI, initiated the proceedings by outlining the objectives of the workshop. He provided a contextual overview of how AI and LLMs are transforming various domains and set the tone for an engaging and thought-provoking day. His brief lecture introduced the theme and called for greater collaboration in AI education and application.

Prof (Dr) Roohie Naaz, [HAG], Incharge Director & Dean, Research & Consultancy, NIT Srinagar graced the occasion as the Chief Guest. Prof Atikur Rehman, Registrar, NIT Srinagar, graced the Workshop as the Guest of

Honour. In his remarks, he reinforced the importance of academia-industry partnerships in advancing AI research and development. He stressed the need for upskilling students and professionals to harness the potential of AI tools in solving real-world problems.

Chief Guest, Prof (Dr) Roohie Naaz delivered the Keynote address. During the lecture, the speaker provided deep insights into the future prospects of AI, exploring how LLMs can revolutionize sectors such as education, healthcare, finance and governance. Prof Naaz highlighted ongoing research and innovation in the AI space, while also addressing the ethical, legal and societal implications of these rapidly advancing technologies.



During the technical session, Dr Janib Ul Bashir, Assistant Professor, Department of IT, NIT Srinagar delivered presentation on the topic 'Expert Talk on LLM-1' and 'Expert Talk on LLM-2'. Following the technical talks, an interactive Q&A session allowed participants to engage directly with the speaker, clarifying doubts and discussing

future research directions. The audience expressed keen interest in LLMs' scope for innovation in local language processing and governance systems.

The workshop concluded with a valedictory session marked by the vote of thanks from Dr Jahangeer Ali, who expressed heartfelt gratitude to the dignitaries, speakers, participants and organizing teams. He acknowledged the successful collaboration between Jammu & Kashmir State Centre, IEI and NIT Srinagar and emphasized the need for continued engagement in emerging technology domains.

This workshop served as a vibrant platform for critical learning, discourse and collaboration in the field of Artificial Intelligence, leaving participants enriched and inspired to further explore the evolving landscape of LLMs and their transformative impact on society.

## Computational Intelligence in Health System

**Telangana State Centre, IEI** organized a One Day Seminar on **Computational Intelligence in Health System** on 08 March 2025 under the aegis of Computer Engineering Division Board [CPDB], IEI at Hyderabad. The Seminar brought together experts, researchers, engineers, academicians and students from diverse fields to explore how computational intelligence (CI), artificial intelligence (AI) and deep learning are revolutionizing modern healthcare systems. The event served as a collaborative platform for idea exchange, technical discourse and futuristic discussions on medical technology advancements.

The Seminar commenced with a welcome address delivered by Dr G Venkata Subbaiah, Chairman, Telangana State Centre, IEI who also presided over the function. He highlighted the critical role of emerging computational tools in transforming patient care, research and diagnostics in the modern health system. Er Gundala Naga Raju, Vice President, TAA IIT Kharagpur, Hyderabad, graced



the occasion as the Chief Guest and delivered a distinguished lecture on the evolving role of computational intelligence in healthcare. He emphasized how computational models and machine learning tools are reshaping clinical practices, from diagnostics to treatment planning, while also addressing ethical challenges and the need for regulation.

During the technical session, Er Ms R Naga Swetha, Assistant Professor, Anurag University delivered lecture on 'Introduction to Deep Learning' and explained the advantages of Deep Learning, different algorithms, 'limitations of conventional Machine Learning etc.

Dr B Madhavi Devi, Assistant Professor, IARE College spoke on 'Computational Intelligence in Healthcare Systems: Transforming Patient Care and Medical Research' and explained role of computational intelligence in healthcare, Neural Network as a core component of Computational Intelligence, pattern recognition and so on.

*Contd. on page 10*

## Innovative Small Scale Start-up on Petroleum Processing and Petrochemicals

Odisha State Centre, IEI, successfully organized a One Day Seminar on **Innovative Small Scale Start-up on Petroleum Processing and Petrochemicals** on 25 January 2025 under the aegis of Chemical Engineering Division Board [CHDB], IEI at Bhubaneswar. The Seminar brought together a diverse group of engineers, academicians, researchers, industry professionals and students to explore entrepreneurship opportunities in petroleum processing and petrochemicals and served as a dynamic platform for knowledge sharing, innovation dialogue and technical discourse, with a strong focus on sustainable development and energy innovation. Mr Srinibas Patnaik, Former Chief General Manager, Indian Oil Corporation, Paradeep Refinery, Odisha graced the function as the Chief Guest. Dr Raghupatruni Bhima Rao, Chairman, Chemical Engineering Division Board was the Guest of Honour. Dr S K Biswal, Managing Director & CEO, International Prana Graf Mintech Research Centre [IGMRC] was the Chief Speaker.



The Seminar commenced with a welcome address by Prof (Dr) Sudhansu Sekhar Dash, Chairman, Odisha State Centre, IEI. He emphasized the significance of the seminar in promoting small-scale start-ups, particularly in the field of petroleum and petrochemicals and underscored the role of innovation, research and entrepreneurship in ensuring the nation's energy security.

The inaugural session was marked by the ceremonial lighting of the lamp, invoking the traditional spirit of wisdom and knowledge. Dr Chaturmukha Pattnaik, Convener of the Seminar, addressed the gathering, highlighting the importance of small-scale enterprises in transforming the petrochemical landscape. He emphasized the necessity for modern technologies and sustainable practices in refining and production.

Dr S K Biswal, delivered a captivating Keynote address and provided an in-depth overview of the petrochemical industry's evolution from oil and gas processing to diversified value-added products including plastics, synthetic rubber, solvents, fertilizers, pharmaceuticals and adhesives. He emphasized

ongoing innovations in processing varied raw materials and the need for efficient, sustainable production methods suited for small-scale start-ups.

Guest of Honour, Dr R Bhima Rao, Chairman, Chemical Engineering Division Board, IEI, shared insights on refining technologies and the adaptability of petroleum derivatives to meet industrial demands. He elaborated on key chemical engineering processes in transforming crude oil into usable products like LPG, distillates and mineral oils and encouraged innovation-driven entrepreneurship.

Chief Guest, Mr Srinibas Patnaik, shared his expertise on the latest research and technological advancements in petroleum processing. He discussed the industry's ongoing efforts in hydro desulfurization and sulfur recovery processes, which are crucial for environmental sustainability. Mr Patnaik further underscored the environmental implications and emerging opportunities for start-ups to develop sustainable refining methods and petrochemical alternatives.

Various lectures were presented during the technical session by Dr S K Biswal, Managing Director & CEO, IGMRC; Prof (Dr) Ram Chandra Sahu, Head, Petroleum and Petrochemicals Engineering, BIIT Bhubaneswar; Prof (Dr) Ritesh Malani, Head, Petroleum and Petrochemicals Engineering, ICT and Indian Oil Corporation and Dr Chaturmukha Pattnaik.

The Seminar concluded with a valedictory session, summarizing key takeaways from the day-long discussions. Participants were encouraged to pursue entrepreneurship in petrochemical sectors, supported by innovation, technical expertise and sustainability goals. The event successfully ignited a spirit of innovation and collaboration among all attendees, reinforcing the potential of small-scale ventures in transforming the energy landscape. Certificates of participation were distributed at the end of the session. Er Sangram Keshari Pattnayak, Honorary Secretary, Odisha State Centre, IEI delivered the vote of thanks and extended gratitude to the dignitaries, speakers, participants and volunteers.

## Computational Intelligence in Health System

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Dr D Narendra Singh, Associate Professor, Anurag University delivered lecture on 'Quantum IoT for Healthcare' and explained the role of Quantum IoT in data security for healthcare systems, quantum enhanced algorithms, real time data processing with improved privacy protocols etc.

Dr S Poongodi, Professor and Dean – IQAC, CMR Engineering College spoke on 'The Role of AI and Computational Intelligence in Modern Medicine'. He explained the role of AI in enhanced diagnostic accuracy, remote patient monitoring, telemedicine and virtual medical care and advocated for more AI driven innovations for more resilient and adaptable healthcare to analyze the relevance between treatment and outcome.

The seminar concluded with a valedictory session that reflected on the key insights shared throughout the day. Participants appreciated the informative and engaging technical sessions and the need for continued research and collaboration in the domain of AI-driven healthcare was emphasized. Certificates were distributed and the session closed on a note of optimism

and commitment to integrating technology for the betterment of the healthcare sector.

The Seminar was attended by several dignitaries including Dr I S N Raju, Council Member, IEI; Prof Dr Ramana Naik Banothu, Past Chairman and Committee Member of the Centre; Er D Rama, Joint Honorary Secretary of the Centre; and others.

The vote of thanks was proposed by Dr K Seetha Ram Babu, Honorary Secretary, Telangana State Centre, IEI who expressed gratitude to all dignitaries, speakers and participants for their active involvement and support.

The Seminar successfully created a platform for academic and professional discourse on the transformative impact of computational tools in medicine. It encouraged future collaborations among engineers, researchers and healthcare professionals to drive innovation in patient care and medical technologies.

## Cyber Security and Banking Safety

Uttar Pradesh State Centre, IEI, successfully organized a One Day Seminar on **Cyber Security and Banking Safety** on 03 February 2025 under the aegis of Computer Engineering Division Board [CPDB], IEI at Lucknow. The seminar was aimed at addressing the rising concerns of cyber threats, data breaches, and online financial frauds in the digital banking ecosystem. The event served as a platform for knowledge-sharing among cyber security professionals, banking experts, academicians and the general public. A large number of participants from various sectors attended the seminar, reflecting the urgency and relevance of the topic.

The program commenced with a welcome address by Er Satya Prakash, Chairman, Uttar Pradesh State Centre, IEI who extended greetings to all the dignitaries and participants and highlighted the growing need for cyber security awareness among banking customers and professionals alike.

He emphasized the seminar's significance in aligning stakeholders with the current digital security challenges and best practices.

Er Masarrat Noor Khan, Immediate Past Chairman, Uttar Pradesh State Centre, who was present on the dais as the Program Coordinator, introduced the Keynote speaker and other distinguished guests and shared his insights on the Seminar theme. His remarks laid the groundwork for a productive and informative session that followed.

The Keynote speaker, Dr Upendra Kumar, Assistant Professor, Institute of Engineering & Technology, Lucknow, delivered a comprehensive presentation on current cyber security issues. He highlighted the concept of dark patterns - deceptive design techniques used by online platforms to manipulate user behavior and the importance of consumer awareness in digital environments. Dr Kumar also shared initiatives of the Government of

India, such as TRAI's cyber fraud prevention measures, DND app, pre-call warnings and user-friendly complaint redressal mechanisms. He elaborated on key cybersecurity challenges including phishing attacks, insider threats, IoT vulnerabilities, cloud security issues, AI-powered attacks and a growing skills gap in the cyber workforce.

Shri Deepak Chopra, Senior Vice President, HDFC Bank, stressed the importance of cyber awareness among both customers and bank employees. Shri Wasif Rasool, Assistant Vice President, HDFC Bank, explained the proactive measures being adopted by banks to protect customer data and Shri Abhishek Srivastava, representative of Consumer Guild and Consumer Coordination Council, New Delhi spoke on the significance of cyber security in national development. He applauded IEI UP State Centre for organizing such an impactful event and discussed relevant provisions

under the Information Technology Act and Indian judicial frameworks related to cybercrime.

The program concluded with a formal vote of thanks delivered by Shri Vijaya Pratap Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI who expressed his gratitude to the esteemed speakers, organizers and participants for making the event a grand success. He acknowledged the collaborative effort of all involved in spreading awareness and technical knowledge on a subject of national importance.

The seminar successfully brought together experts and the public to discuss pressing digital threats and protective strategies. It reinforced the need for public awareness, cross-sector cooperation and proactive vigilance in combating cybercrime in the modern financial ecosystem.



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## IEI Celebrates

# World Environment Day 2025

## Theme : Beat Plastic Pollution

World Environment Day was celebrated by the Centres/Forum of the Institution all over the country on 5 June, 2025. Brief accounts of the celebration as received from various Centres are reported hereunder.

### STATE CENTRES

#### Assam



Assam State Centre, IEI in association with AARANYAK, a leading NGO, celebrated World Environment Day 2025 on 05 June 2025 with two sessions. The morning outreach session was held at SHISHU SAROTHI,

Guwahati, where Chairman, Honorary Secretary and other Committee members of Assam State Centre, were present. In the evening, a popular talk session at the Assam State Centre premises featured expert lectures by Prof Hari Prasad Sarma, Former HoD, Environmental Science, Guwahati University and Er Ankuran Pathak, Assistant Executive Engineer, Pollution Control Board, Assam. Dr Bibhab Kumar Talukdar, CEO, AARANYAK, also addressed the gathering.

#### Bihar



Bihar State Centre, IEI celebrated World Environment Day on 05 June 2025 at Patna. The event was inaugurated by Prof S K Verma, Vice Chancellor, Bihar Engineering University, who graced the occasion as the

Chief Guest and emphasized that environmental conservation is essential for a secured future. The Keynote address was delivered by renowned environmental expert Dr Subrata Hait, Associate Professor, Department of Civil & Environmental Engineering, IIT Patna, who elaborated on the theme with a focus on microplastics, (MPs), tiny plastic particles under 5 mm, highlighting their pervasive environmental presence and severe ecological and health impacts. The event reinforced the urgent need for collective action to tackle plastic pollution and safeguard the environment for future generation.

#### Delhi

Delhi State Centre, IEI celebrated World Environment Day on 07 June 2025 through digital mode, focusing on the theme of plastic pollution and its impact. The Keynote speaker, Shri R S Tyagi, Former Member, Delhi Jal Board, delivered an informative lecture highlighting the widespread use and misuse of plastics and emphasized the alarming health risks associated with microplastics found in packaged foods and beverages. He stressed the urgent need for responsible usage, awareness and policy intervention to mitigate the effects of plastic on the environment and human health. The event was attended by number of participants, Corporate Members, industry professionals, student members and invited guests. The online session proved to be a meaningful platform for exchanging knowledge and encouraging sustainable practices to combat plastic pollution.

#### Goa

Goa State Centre, IEI in collaboration with the Goa Chamber of Commerce and Industry (GCCCI), observed World Environment Day 2025 during 04 and 05 June 2025 at Goa. In the first day, Mr Sanjay Amonkar, Director General, GCCCI, addressed the urgency of tackling plastic pollution. Chief



Guest, Mr Mahesh Patil, Former Chairman, Goa State Pollution Control Board, spoke on Goa's environmental challenges. The Keynote address was delivered by Padmashree Sharad Kale, former BARC

scientist and Special Advisor to the CM of Goa. He focused on biodegradable alternatives and systemic change. Next day, Goa State Centre, IEI supported the 'Green Dialogue' at the International Centre Goa, which was inaugurated by Shri Subhash Shirodkar, Hon'ble Minister for Water Resources. Chief Guest, Shri Mauvin Godinho, Hon'ble Minister for Industries, Panchayats & Transport and Special Guest, Dr Pradeep V Sarmokadam, Member Secretary, Goa State Biodiversity Board joined the panel discussion. Other experts include Mr Milind Ramani, Founder at Effective Architectural Services(EAS), Mr K Shekhar, Chairman IGBC- Goa and Dr Pravin Khullar, Executive Director, Vergo Pharma. The event was moderated by Mr Bharat Kamat, Chairman, Indian Green Building Council, Goa Chapter.

#### Jharkhand



Jharkhand State Centre, IEI celebrated World Environment Day on 05 June 2025 at Jharkhand Government Tool Room (JGTR), Tatisilwai, Ranchi, with a series of impactful activities promoting

environmental awareness and sustainability. The event began with an awareness rally involving students and staff to educate locals on environmental conservation, followed by a mass tree plantation drive. Dignitaries present included Dr Mahesh Kumar Gupta, Chairman, Jharkhand State Centre, IEI and Principal, JGTR; Mr Ashutosh Mishra, Senior Administrative Officer; Mr Mangal Toppo, Training In-Charge; Mr Md Javed Ansari, Production In-Charge; Mr Kamalkant, Maintenance Engineer and faculty members Mr Purnendu Pankaj, Mr Rakesh Kumar, Mr Sanjeev Ranjan, Mr Gaurav Priyadarshi, Mr Rahul Ranjan and Ms Poonam Khalkho. The second session included a speech competition on environmental themes. Notable experts like Er Sandeep Bhagat, GM, CMPDI, Er Manoj Kumar, GM, MECON, Er M R Kumar, Ex-Marine Engineer and Environmentalist and Ms Suman Sethi, Environmentalist shared their insights.

#### Manipur

Manipur State Centre, IEI observed World Environment Day 2025 on 05 June 2025 Imphal. The event was graced by Dr N Shyamananda Singh, IPD Division I, PHED, Government of Manipur, as the Theme Speaker. Er



S Tampha Singh, Senior Committee Member; Er L Swamikanta Singh, Chairman of the centre and Dr Th Subhaschandra Singh, Honorary Secretary, Manipur State Centre, IEI were present. Er Huirem

Bharat Meitei, Joint Honorary Secretary of the centre delivered the welcome address. Dr Shymananda Singh highlighted the origins of World Environment Day and emphasized alarming statistics on global plastic waste, microplastics in human health and the urgent need to reduce plastic consumption. The event included the declaration of a “Single Use Plastic Free Campus” at Manipur State Centre, IEI. Er S Tampha Singh urged for reduced plastic usage and Er L Swamikanta Singh shared insights from Indore’s waste management success, calling for adoption of ‘reduce, reuse, recycle’ practices.

### Meghalaya

Meghalaya State Centre, IEI celebrated World Environment Day on 05 June 2025 in collaboration with the All Meghalaya Contractor & Supplier Association through a meaningful tree plantation programme held at Nongkyndong, Nongkrem village in East Khasi Hills district of Meghalaya. The event witnessed the participation of engineers, several contractors and local community members, reflecting strong support for environmental preservation. Er C Kharmudai, Chairman, Meghalaya State Centre, IEI emphasized the collective responsibility of all stakeholders in safeguarding the environment for future generations. He highlighted the importance of active participation in combating environmental degradation, especially in the face of rising plastic pollution. The President of the All Meghalaya Contractor & Supplier Association and the Head of the Village also delivered brief yet impactful speeches, encouraging continued collaboration between professionals and the local community in environmental initiatives. Er Sekhar Dey, Honorary Secretary, Meghalaya State Centre, IEI reaffirmed the Centre’s commitment towards sustainable development and environmental stewardship.

### Punjab & Chandigarh

Punjab & Chandigarh State Centre, IEI celebrated World Environment Day 2025 on 07 June 2025 at Chandigarh. The event highlighted the urgent need for collective action to eliminate plastic waste and achieve sustainable development goals. Er Gursharan Dass Garg, Senior Environmental Engineer, Punjab Pollution Control Board, graced the occasion as the Chief Guest, while Dr Manbeer Kaur, HoD, Department of



Life Sciences, BAM Khalsa College, Garhshankar, Punjab was the Guest of Honour. The programme was also attended by Er S S Mundi, Immediate Past Vice President, IEI and Prof (Dr) T S Kamal, Former Vice President, IEI. The Keynote speakers, Dr Reena Chadha, General Manager, Indian Pollution Control Association and Ms Shivani Thakur, Assistant Research Officer, Directorate of Environment & Climate Change, Chandigarh delivered insightful talks on combating plastic pollution. The Chief Guest and Guest of Honour shared motivating views supporting environmental protection.

### Tamilnadu

Tamilnadu State Centre, IEI observed World Environment Day on 05 June 2025 through online platform. Er Jagdish Chand Singhal, Council Member, Environmental Engineering Division Board, IEI graced the function as the Chief Guest. In his Keynote address, Er Singhal emphasized the critical role the environment plays in sustaining life and the urgent need to care for it

amidst increasing plastic pollution. He highlighted how plastic, once hailed as a revolutionary material, has become a global threat due to its non-biodegradable nature, breaking down into microplastics that contaminate air, water and food chains.

### Telangana

Telangana State Centre, IEI celebrated World Environment Day on 05 June 2025 through online mode. Dr P Anand, Principal Scientist and Associate Professor, Department of Energy and Environmental Engineering, CSIR-IICT, Hyderabad, delivered lecture on the topic ‘A Circular Approach to Plastic Waste: Building Climate Resilience through Reduction, Recycling and Regeneration’.

### Tripura

Tripura State Centre, IEI, in collaboration with the Tripura State Pollution Control Board, observed



World Environment Day on 05 June 2025, at Agartala. Er Paramananda Sarkar Bannerjee, Chairman, Tripura State Centre, IEI emphasized the alarming rise in plastic usage and its

detrimental impact on ecosystems. The Keynote address was delivered by Dr Animesh Debnath, Associate Professor in Environmental Engineering, Department of Civil Engineering, NIT Agartala, who explained the causes and consequences of plastic pollution, highlighting issues such as single-use plastics, poor waste management and the growing presence of microplastics in food, water and even human blood. Dr Debnath proposed practical solutions like reuse, reduction, innovation in sustainable materials and public awareness. The event underlined the urgency of collective action to combat plastic pollution and foster sustainable practices for a healthier planet.

### Uttarakhand

Uttarakhand State Centre, IEI celebrated World Environment Day on 05



June 2025 at Dehradun with active participation of engineers and guests. Er H K Upreti, Former HoD, PWD, Uttarakhand, delivered a compelling speech on severe environmental threat posed by plastic pollution

and stressed the importance of adopting sustainable practices to safeguard our ecosystem. Dr Ashish Sharma, an accomplished entrepreneur, highlighted the significance of creativity in driving personal growth and societal transformation, motivating students to explore innovative solutions for modern challenges. Prof A K Sharma, a successful entrepreneur, inspired the audience by sharing his journey of turning everyday observations into impactful creative ventures. The event emphasized the twin themes of environmental consciousness and creative thinking.

## LOCAL CENTRES

### Amravati

Amravati Local Centre, IEI celebrated World Environment Day on 05 June



2025 by organizing an expert talk on the topic ‘Combating Plastic Pollution’. The Keynote speaker, Prof Pravin Khandve, Vice Principal, Prof Ram Meghe Institute

of Technology & Research [PRMIT&R], Badnera, Amravati delivered an insightful lecture highlighting the alarming extent of plastic pollution and its impact on ecosystems, human health and the global economy. He emphasized the need for a transition from linear to circular plastic economy models, advocating for reuse, innovation and systemic change. Er Anand Wamanrao Jawanjal, Council Member, IEI underlined the significance of environmental awareness. Distinguished guests, Dr Nitin Ingole, Chairman, Indian Water Works Association [IWWA] and Er Solanke, Secretary, IWWA were present, alongside Committee, Corporate and invited members. The lecture urged collective action from individuals, governments and industries to ensure a cleaner, sustainable future.

### Bareilly



Bareilly Local Centre, IEI celebrated World Environment Day on 05 June 2025 at Bareilly. Prof (Dr) Pankaj Kumar Sharma, Chairman, Bareilly Local Centre, IEI emphasized the urgent need for collective

action to combat plastic pollution through sustainable alternatives and responsible choices. Er Dr Ruchit Jain, Head, Mechanical Engineering Department, Rajshree Institute of Management and Technology [RIMT], Bareilly, addressed the audience. Dr Ruchit Jain, Head, Computer Science Department, RIMT highlighted the global health hazards of plastic pollution and urged every citizen to take responsibility; Dr C P Gagnwar, Principal, Rajshree Polytechnic, Bareilly, underscored the long-term ecological and health dangers of inaction and advocated sustainable living.

### Coimbatore

Coimbatore Local Centre, IEI in association with the Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore, celebrated World Environment Day 2025 on 05 June 2025 at Coimbatore. The event featured a Keynote lecture by Shri D R Kumaraswamy, Director, Prakruti Institute of Environmental Studies, Bengaluru & Former Chief Environmental Officer, Karnataka State Pollution Control Board, who delivered an insightful and action-oriented talk emphasizing regulatory compliance, public participation and the pivotal role of education in tackling plastic pollution. Real-life case studies and key environmental laws were shared to highlight the practical aspects of pollution control.. The seminar witnessed enthusiastic participation from students and professionals to contribute actively to environmental preservation.

### Ghaziabad

Ghaziabad Local Centre, IEI celebrated World Environment Day 2025 on 10 June 2025 at Ghaziabad.



Prof (Dr) D K Sharma, Vice Chancellor, HRIT University, Ghaziabad graced the occasion as the Chief Guest. Prof (Dr) Vinod Kumar, Registrar, HRIT University, was the Guest of Honour.

Prof Kumar urged the audience to avoid single-use plastics, while Prof Sharma stressed adopting sustainable habits alongside government efforts.

### Gorakhpur

Gorakhpur Local Centre, IEI, in association with ITM, GIDA, Gorakhpur, celebrated World Environment Day 2025 on 05 June 2025 at Gorakhpur. The Chief Guest, Prof Govind Pandey, Department of Civil Engineering, MMMUT, Gorakhpur, highlighted the alarming spread of microplastics in ecosystems and human bodies. Keynote Speaker, Dr P K Mishra, Senior



Director, CIDC, New Delhi addressed the global threat posed by plastic, urging collective commitment to sustainability. Guests of Honour, Er J B Rai, President, Malaviya Alumni Association, MMMUT and Er

S B R Mishra, Former Executive Engineer, Dept of Irrigation, UP, emphasized public responsibility and cultural roots in environmental stewardship. The event ended with a symbolic tree plantation at the ITM campus, reinforcing a commitment to nurture the environment and promote sustainable practices for future generations.

### Indore

Indore Local Centre, IEI celebrated World Environment Day 2025 on 05 June 2025 at Indore. The event was graced by Chief Guest, Dr Rakesh Singhai, Vice Chancellor, Devi Ahilya Vishwavidyalaya [DAVV] Indore, who stressed the harmful impacts of plastic



on humans and marine ecosystems and urged a shift to eco-friendly habits like using cloth bags and natural decorations. Guest of Honour, Er Dineshchandra Bhatt, Vice President & Unit Head, SRF Limited, shared alarming data on India's plastic waste crisis, noting that only 8% is recycled, with urban areas being the major contributors. Keynote Speaker, Er Swapnil Gavkar, Managing Director, NEEV Bioroots Sustainable Fuels Private Limited, highlighted plastic-to-fuel technology as a vital solution for sustainability. Prof (Dr) Shilpa Tripathi, Chairperson, CATE, IEI was present on the occasion. Er Dinesh Shukla, Chairman, Indore Local Centre, IEI spoke on Devi Ahilyabai Holkar's historic contributions to environmental conservation. Er R P Gautam, Immediate Past Chairman of the centre elaborated on the plastic pollution crisis.

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### Jabalpur

Jabalpur Local Centre, IEI celebrated World Environment Day on 05 June 2025 at Jabalpur.



Keynote speaker, Er Rakesh Kumar Jain, Lecturer, Civil Engineering Department, Kalaniketan Polytechnic College, Jabalpur highlighted the urgent issue of plastic pollution, detailing methods

of plastic degradation - physical, chemical and biological - and stressed the importance of recycling and reuse. Col G S Sai Kumar, SQAQ, SQAQ (A), Jabalpur, also delivered a technical lecture on the occasion.

### Jodhpur

Jodhpur Local Centre, IEI celebrated World Environment Day 2025 at Jodhpur on 05 June 2025.



The Keynote address was delivered by Ms Bondita Sen, Head, Department of Commercial Art, Government Women Polytechnic College, Jodhpur, who highlighted

alarming global plastic production and its adverse impacts on the environment and health, emphasizing immediate action through recycling and the use of alternatives like cloth bags. Acharya Er Darya Singh Yadav, Convener and Joint Secretary of the centre and former Director, Technical

Education, Rajasthan, referred to Article 51A(G) of the Indian Constitution, urging citizens to fulfill their fundamental duty to protect the environment and adopt eco-conscious lifestyles.

### Kozhikode

Kozhikode Local Centre, IEI observed World Environment Day 2025 on 05 June 2025 at Kozhikode. The Keynote lecture was delivered by Er Vignesh M R, Kozhikode District Coordinator, Kerala Solid Waste Management Project, who provided an in-depth analysis of the plastic pollution crisis. His talk covered the chemistry of plastics, their global environmental threat, health effects of microplastics, legal mandates including



extended producer responsibility and innovative technologies in waste management. The session was highly informative and followed by an interactive discussion with the audience.

### Meerut

Meerut Local Centre, IEI celebrated World Environment Day on 05 June 2025 through virtual mode. The Keynote address was delivered by Dr Bindu Sharma, Professor and Head, Department of Zoology and Environmental Science, CCS University, Meerut. Dr Sharma presented an insightful talk tracing the history of plastic from a revolutionary invention to a global environmental crisis. The speaker emphasized the need to reduce single-use plastics, segregate and recycle waste, utilize plastic for road construction, adopt pyrolysis for fuel production and promote sustainable materials.

### Neyveli

Neyveli Local Centre, IEI celebrated World Environment Day on 07 June 2025 through hybrid mode. Er Kamal Basha Shaik, Nodal Officer, Thermal Environment, NLC India Limited, delivered an enlightening Keynote address. Quoting Prime Minister of India's vision on plastic waste management, Er Basha emphasized the urgent need for collective



actions to tackle single-use and micro-plastic pollution. Citing UNEP's message, he urged individuals, communities and governments to rethink and reform their plastic usage habits. The session saw active participation from both in-person and online attendees, with suggestions shared for eliminating plastic waste.

### Palghat

Palghat Local Centre, IEI observed World Environment Day 2025 on 05 June 2025 at Palakkad. Er A V Rajappan, Chairman, Palghat Local Centre, IEI delivered the presidential address emphasizing the environmental threats posed by plastic, especially single-use plastics and the need



for responsible usage. Guest speaker, Dr A V Hema Nalini, Dean Research and Head of Civil Engineering, MEA Engineering College, Perinthalmanna delivered a comprehensive and enlightening talk on the dangers of plastic pollution, discussing types of plastics, the issue of microplastics in human bodies and their environmental impact on both terrestrial and marine species.

She advocated for reducing plastic use, promoting recycling and adopting eco-friendly alternatives. The event reinforced the urgent need for collective action in combating plastic pollution and protecting the environment for future generations.

### Srikakulam

Srikakulam Local Centre, IEI, in association with 14 (A) BN NCC, Srikakulam and AITAM, Tekkali, celebrated World Environment Day on 05 June 2025 at AITAM Engineering College, Tekkali. The event was inaugurated by the Chief Guest, Col Prasun Kumar Panda, Commanding Officer, 14 (A) BN NCC and Guest of Honour, Major Mahesh, Deputy Camp Commanding Officer, alongside Prof V V Nageswara Rao, Director, AITAM; Keynote speaker, Dr Ch Rammohan Rao, Environmental Engineering Expert and others. Col Panda emphasized the role of youth in environmental



protection. Keynote Speaker, Dr Ch Rammohan Rao explained severe consequences of plastic usage. Major Mahesh addressed environmental crises in urban areas.

### Sunabeda

Sunabeda Local Centre, IEI observed World Environment Day 2025 on 05 June 2025 at Sunabeda. The event featured Er Hara Kumar Mohanty, Regional Director, DGAQA, Ministry of Defense, as the Chief Speaker, who emphasized the key causes of plastic pollution including single-use plastics, improper waste disposal and microplastics in oceans. Dr Nutan Kumar Dash, Immediate Past Vice President and Council Member, IEI graced the occasion as Guest of



Honour and advocated for banning single-use plastics, stressing the long-term environmental benefits over short-term economic impacts. Er Aravinda Swamy, Additional GM (Assembly & Testing), HAL Sunabeda, highlighted the harmful effects of plastic on ecosystems and human health. Er Ranjit Kumar Sahu from HAL's Quality Control Division discussed the role of government policies in reducing plastic usage. Er Sanjaya Kumar Bishoyi, Honorary Secretary, Sunabeda Local Centre, IEI shared key insights on the importance of environmental conservation. Er Manoj Kumar Pattnaik, Manager (Tooling), HAL Sunabeda. Delivered the concluding remarks.

### Udaipur

Udaipur Local Centre, IEI celebrated World Environment Day on 05 June 2025 at Udaipur. Er Purushottam Paliwal, Chairman, Udaipur Local Centre, IEI emphasized the global crisis of plastic waste threatening ecosystems and human health, urging citizens to adopt sustainable practices. Er Piyush Javeria, Honorary Secretary, Udaipur Local Centre, IEI highlighted government initiatives like Swachh Bharat Mission and Plastic Free India Abhiyan and encouraged eco-friendly choices in daily life. Chief Guest and Keynote Speaker, Dr N C Jain, Former



PCC, Rajasthan and founder of Sangram Holistic Eco-Wellness Movement, stressed on integrating spirituality and environmental consciousness, promoting the refusal of plastic along with the three Rs - Reduce, Reuse and Recycle. He warned of the existential threat posed by unchecked plastic pollution and advocated for zero carbon footprints. Dr Sangeeta

Chaudhary, Associate Professor, GITS Udaipur, explained the environmental and ecological dangers of unmanaged plastic waste, including its impact on marine biodiversity and food chains.

### Upper Assam

Upper Assam Local Centre, IEI celebrated World Environment Day on 07 June 2025 at Oil India Limited, Duliajan. Mrs M B Sarma, Executive Director (HSE & ESG), Oil India Limited, graced the occasion as the Chief Guest and emphasized the urgent need for sustainable practices to combat plastic pollution. Shri R K Singh, CGM (FS), Oil India Limited, graced the occasion as the Guest of Honour and shared his thoughts on the theme. The technical session featured insightful paper presentations by Shri Devenga Gourav Borah, Deputy Manager (Production), Assam Petrochemicals Limited, Namrup on 'Marine Plastic Pollution' and Smt



Suhashinee Bezbaruah, Civil Engineering Department, Oil India Limited, on 'Plastic Road: A New Road to Zero Plastic'.

### Vadodara

Vadodara Local Centre, IEI organized a lecture programme on the occasion of World Environment Day 2025 on 05 June 2025 at Vadodara.. The event featured a Keynote address by Er Satish Panchal, Founder of SATSANG ENVIRO ADVISOR, Vadodara. Er Panchal delivered an insightful presentation highlighting the alarming data and global impact of plastic pollution. He further elaborated on how plastic waste is adversely affecting ecosystems, biodiversity and human health and emphasized the urgent need for collective

global efforts to address this crisis. Earlier, Dr Satishkumar Kantilal Joshi, Chairman, Vadodara Local Centre, IEI and Council Member, IEI highlighted the importance of environmental protection and the role engineers can play in promoting sustainable solutions.



### Visakhapatnam

Visakhapatnam Local Centre, IEI celebrated World Environment Day on 05 June 2025 at Visakhapatnam. Guest of Honour, Ms Honey Seles, Programme Officer - Marine, WWF-India, delivered an insightful presentation on marine plastic pollution, biodiversity loss and the impact of microplastics, emphasizing the role of community partnerships in environmental protection.



She urged attendees to reduce single-use plastics, segregate waste and adopt sustainable practices. Mr M Nageswara Rao, Project Manager, Praja Pragati Trust, highlighted the achievements of the

DROP initiative supported by KIA Motors and IPCA in Visakhapatnam over the past years. The event concluded with an environmental pledge by all participants to actively combat plastic pollution and inspire others to join the movement. The programme effectively raised awareness on the urgent need for collective action to protect marine ecosystems and promote a sustainable future.



# IEI - Springer Journal



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# IEI Celebrates World Telecommunication and Information Society Day 2025

**Theme: Gender Equality in Digital Transformation**

World Telecommunication and Information Society Day was celebrated by the Centres of the Institution all over the country on May 17, 2025. Brief Accounts of celebrations as received from various Centres are given hereunder.

## STATE CENTRES

### Manipur

Manipur State Centre, IEI celebrated World Telecommunication & Information Society Day 2025 on 17 May 2025 at Imphal. Er R K Naojinglen Meitei, Senior Technical Officer (Retd), NIELIT Imphal, delivered the Keynote address, highlighting the role of digital technologies and IoTs while emphasizing the need

to encourage girl students through targeted workshops and training. Chief Guest, Er L Shamungou Singh, Principal, Government Polytechnic College, Imphal, spoke on the historical and current advancements in telecom technology and stressed the need for gender equality in digital platforms. In his presidential address, Er L Swamikanta Singh, Chairman of Manipur State Centre reflected on technological evolution from postal systems to 6G networks.

### Punjab & Chandigarh

Punjab & Chandigarh State Centre, IEI celebrated World Telecommunication & Information Society Day on 17 May 2025 at Chandigarh. Er Rakesh Kapur, ITS (Retd), Life Member, ITU - Apt Foundation of India, graced the occasion as the Chief Guest. Dr Manjeet Singh Patterh, Professor, Punjabi University, Patiala was the Guest of Honour. Keynote speaker, Dr Surita Maini, Associate Professor, SLIET Longowal, highlighted the

significance of gender equity in ensuring fair access and opportunities across society. Dr Balwinder Singh Dhaliwal, Associate Professor, NITTT Chandigarh in his Keynote lecture, stressed the need to reframe gender data as a core digital infrastructure, essential for equitable policy-making and social transformation. Er S S Mundi, Immediate Past Vice President, IEI and Prof (Dr) T S Kamal, Former Vice President, IEI also graced the function. Number of engineers, academicians and students participated actively in the enlightening session.

### Rajasthan

Rajasthan State Centre, IEI celebrated World Telecommunication & Information Society Day on 17 May 2025 at Jaipur. Er Mahendra K Chauhan, Chairman, Rajasthan State Centre highlighted the critical

role and challenges women face in the AI and ML-driven telecommunication era, emphasizing the future opportunities. Keynote speaker, Dr Vibhakar Pathak, Head of Department, IT and IQAC, Coordinator, Arya College of Engineering and Technology, Jaipur addressed gender disparity in the telecom sector, underscoring issues of accessibility, affordability and societal mindsets that hinder women's empowerment. Chief Guest, Er Sanjay Bansal, Director, Project Lab India, Vigyan Bharti, Rajasthan spoke on institutional initiatives and public-private partnerships essential for bridging gender and rural-urban gaps in digital access. The event witnessed engaging discussions on fostering women-led technological advancements.

### Tamilnadu

Tamilnadu State Centre, IEI celebrated World Telecommunication and Information Society Day on 20 May 2025 through online mode. Guest speaker, Dr S Gomathi, Associate Professor, Department of Electronics Engineering, K S Rangasamy College of Technology, Tiruchengode in her insightful presentation traced historical inequalities in access to knowledge, emphasizing that gender disparities in the digital age are rooted in centuries-old patriarchal systems. She stressed that technology is not neutral and unless built inclusively, it risks deepening biases. The speaker called for global collaboration to ensure digital access and equity across all genders. The event acknowledged the importance of continued dialogue on digital inclusivity.

### Telangana

Telangana State Centre, IEI celebrated World Telecommunication & Information Society Day on 17 May 2025 at Hyderabad. The event was graced by Dr T Hanuman Chowdary, Chairman, Pragna Bharati and Former Advisor, Government of Andhra Pradesh, as the Chief Guest and Er K Subbi Reddy, former Chief Engineer, TRANSCO as the Guest of Honour. Dr Bala Prasad Peddigari, Chief Innovation Officer and Head - Technology Advisory Services, Tata Consultancy Services, delivered the Keynote address on the theme, highlighting the need for inclusive policies and equitable access to technology.

### Tripura

Tripura State Centre, IEI observed World Telecommunication & Information Society Day on 20 May 2025 at Agartala. Prof (Dr) B K Upadhyaya, Principal, Tripura Institute of Technology, delivered an insightful Keynote on the current status of gender equality in digital transformation, the digital gender divide and India's strategic efforts to bridge



this gap. Dr Shikha Maurya, Assistant Professor, ECE Department, NIT Agartala, highlighted how digital access and skills empower women to pursue education, entrepreneurship and essential services. Dr Joylal Sarkar, Assistant Professor, CSE Department, ICFAI University Tripura, stressed the need for inclusive digital systems, as AI and digital tools often replicate gender biases. The seminar emphasized that gender equality in the digital realm is vital for equitable progress, economic development and innovation. The event witnessed active participation and meaningful discussions.

### Uttar Pradesh

Uttar Pradesh State Centre, IEI celebrated World Telecommunication and Information Society Day (WTISD) on 17 May 2025 at Lucknow. Prof (Dr) Bharat Raj Singh, Council Member, IEI and Past Chairman of the Centre and



Director General, School of Management Sciences – Technical Campus, Lucknow addressed the audience. Keynote speakers, Ms Jaspreet Kaur and Ms Pallavi Pant, eminent experts in digital equity, shared critical

insights on the prevailing gender gap in digital access and participation, highlighting that while digital literacy among women in India is gradually improving due to initiatives like PMDISHA, women's internet usage still trails behind men (39% vs 61%). The session emphasized inclusive digital growth through increased access and representation for women in tech fields. The event saw enthusiastic participation from professionals and stakeholders.

### West Bengal

West Bengal State Centre, IEI observed the World Telecommunication and Information Society Day on 17 May 2025 at Kolkata. Theme Speaker of the event was Prof Ashik Paul from the Institute of Radio Physics and Electronics, University of Calcutta. Prof Paul's lecture underscored



that while the digital revolution holds immense promise for global socio-economic progress, a persistent gender digital divide hinders equitable access.

## LOCAL CENTRES

### Jabalpur

Jabalpur Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 through online mode. Er Vivek Kumar Agrawal, Superintending Engineer (Operations), State Load Dispatch Centre, Madhya Pradesh Power Transmission Company Limited, Jabalpur, delivered the Keynote address, emphasizing that bridging gender gaps in digital access, skills and representation is essential for inclusive development.

### Kochi

Kochi Local Centre, IEI observed World Telecommunication & Information Society Day 2025 with an insightful online technical lecture on the theme on 17 May 2025. Prof (Dr) Girish Shrikisan Mundada, Vice President, IEI and Professor [Electronics and Telecommunication Engineering], Pune Institute of Computer Technology, Pune, graced the event as the Keynote speaker. Prof Mundada delivered a thought-provoking presentation titled 'Bits, Bytes and Beyond – The Digital Shift', addressing the transformative role of digitalization and the critical need for gender equity in access and usage. His data-driven analysis covered digital literacy, usage trends and policy frameworks, stressing actionable strategies to close the gender gap.

### Kollam

Kollam Local Centre, IEI organized a webinar on 17 May 2025 to commemorate World Telecommunication and Information Society Day. Keynote Speaker of the session was Mr Boben K, Assistant General Manager, Mobile Network Quality Monitoring & CM Installation, BSNL Kollam. In his address, Mr Boben emphasized the dual nature of digital transformation - offering significant empowerment opportunities for women and girls while also being hindered by social, cultural and systemic challenges. He shed light on the importance of creating inclusive digital spaces to bridge gender gaps in the digital economy. The session was highly informative and engaging, concluding with an interactive discussion. The event was attended by number of participants, including corporate members, student members and faculty coordinators, marking a meaningful observance of the day.

### Kothagudem

Kothagudem Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2025 by organizing an impactful webinar. The session featured expert discussions on key areas such as digital transformation fundamentals, strategic planning and the essential need for gender inclusivity. Topics like workplace gender bias, skill gaps, women in tech leadership, AI and gender bias, cyber security and digital entrepreneurship were addressed with great relevance and depth. Speaker of the session, Er B Brama Reddy, Immediate Past Chairman, Telangana State Centre, IEI emphasized the urgency of fostering inclusive digital environments. He recommended the regular organization of awareness programs to promote gender-sensitive digital transformation, investment in training programs to bridge skill gaps and active encouragement of women's participation in tech leadership. The webinar proved to be a thought-provoking and timely initiative, underlining the need for equitable digital growth and inspiring action towards a more inclusive digital future.

### Kozhikode



Kozhikode Local Centre, IEI observed World Telecommunication and Information Society Day 2025 at Kozhikode on 17 May 2025. Speaker of the session was Ms Layana Aanand, Head, Department

of Women's Studies, University of Calicut. In her insightful lecture, Ms Aanand emphasized gender equality as a core human right and an economic imperative. She addressed topics such as the digital gender divide, the role of digital education, artificial intelligence and the need for gender-sensitive digital policies. The session sparked a lively discussion, reflecting its relevance and impact.

### Ludhiana

Ludhiana Local Centre, IEI celebrated World Telecommunication and Information Society Day 2025 on 17 May 2025 through an online session. Keynote speaker of the session was Dr Vandana Bhatia, Technical Lead, Nokia Communications. In her insightful address, Dr Bhatia highlighted the persistent gender disparity in both public and private sectors, substantiating her points with relevant data. She emphasized the positive role of corporate initiatives in narrowing the gender gap and stressed the importance of a collective change in mindset to achieve true digital inclusivity. The program served as a timely reminder of the need for gender-sensitive approaches in the digital era and was well-received by all participants.

### Madurai

Madurai Local Centre, IEI celebrated World Telecommunication and Information Society Day 2025 on 20 May 2025 at Madurai. Chief Guest of the session was Prof (Dr) S J Thiruvengadam, Department of Electronics and Communication



Engineering, Thiagarajar College of Engineering, Madurai. Dr Thiruvengadam delivered an insightful lecture highlighting the urgent need to bridge the digital gender gap and empower women with equitable access to ICTs. He emphasized India's efforts, including DPI, DBT and G2P initiatives, in advancing digital inclusion, especially for rural women. The session underscored the role of digital technologies in enabling education, economic participation and social empowerment for women.

#### Meerut

Meerut Local Centre, IEI, in association with Sir Chhotu Ram Institute of Engineering & Technology (SCRIET), Chaudhary Charan Singh University, Meerut celebrated World Telecommunication and Information Society Day on 17 May 2025 at Meerut. Dr Niraj Singhal, Director, SCRIET Meerut, graced the function as the Chief Guest. Dr Pankaj Kumar and Dr Nidhi Chauhan, Assistant



Professors at SCRIET were the Guest Speakers. Dr Pankaj Kumar delivered a comprehensive talk titled 'Breaking Digital Barriers: A Roadmap to Gender Equality', highlighting digital disparities, barriers faced by women and opportunities for empowerment through education, legal reforms and access to technology. Dr Nidhi Chauhan presented an engaging session on 'Gender Equality in Digital Transformation', focusing on the role of engineers in designing inclusive technologies, sector-specific digital innovations and the impacts of digital equality on education, health and economic participation.

#### Munirabad

Munirabad Local Centre, IEI, in collaboration with the Department of Electronics and Communication Engineering, Hanagal Sri Kumareshwara (HSK) Polytechnic, Ballari, celebrated World Telecommunication and Information Society Day on 17 May 2025 at Munirabad. The event was



graced by Sri Pallela Prabhulinga, Chairman, HSK Polytechnic; Prof (Dr) S M Shashidhar, Chairman, Munirabad Local Centre, IEI; Dr S Prabhavathi, Professor and HOD, ECE, RYMEC Ballari; Sri Nandeesh K M,

Software Engineer, HP Bengaluru; Sri B Srishailagouda, Principal, HSK Polytechnic and Smt Ghousia Begum K, HOD, ECE, HSK Polytechnic. Dr S Prabhavathi delivered an engaging talk on 5G and IoT and their societal benefits. Dr S M Shashidhar shared insights on the evolution from 1G to 6G and its economic implications. Sri Nandeesh K M encouraged students to focus on understanding over rote learning for long-term success. The event saw active participation from faculty and students of ECE and EEE departments, marking a successful and insightful celebration.

#### Muzaffarpur



Muzaffarpur Local Centre, IEI organized a colloquium on the eve of World Telecommunication and Information Society Day 2025 at MIT Muzaffarpur on 17 May 2025. The

program was inaugurated by the Chief Guest, Mr Devanand Sahay (ITS), Principal General Manager, BSNL Muzaffarpur. In his address, Mr Sahay emphasized India's progress in digital equality, drawing parallels with global developments. Several other experts shared their views on BSNL's initiatives promoting gender inclusivity. A dynamic question-answer session followed. The event saw enthusiastic participation from many faculty members and students.

#### Nashik

Nashik Local Centre, IEI celebrated World Telecommunication and Information Society Day (WTISD) on 17 May 2025 at Nashik. The Keynote



lecture was delivered by Er Nayanish Joshi, member of Nashik Local Centre, IEI on the theme, emphasizing the critical role of engineers in ensuring equitable digital access and bridging the digital divide. The

event was graced by the presence of Er Arvind Vedant Rathi, Honorary Secretary of the Centre, Er M M Kothari, Council Member, IEI, Er Sumit K Khinvasara, Past Chairman of the Centre and others. The session witnessed active participation and valuable discussions, marking a successful and meaningful observance of WTISD 2025.

#### North Bengal

North Bengal Local Centre, IEI observed World Telecommunication & Information Society Day 2025 on 17 May 2025 at Jalpaiguri Government



Engineering College, Jalpaiguri. Er Shrayasi Datta, Honorary Secretary, North Bengal Local Centre, IEI in her opening remarks mentioned that while digital transformation integrates technology into all aspects

of life, it is not inherently gender-neutral and can either reinforce or reduce inequalities depending on the approach taken. She highlighted that inclusive policies and societal commitment are key to ensuring digital innovation supports gender equality. Er P K Saha, member of the centre echoed the sentiment, stating that digital tools reflect societal values and must embed inclusivity and equity to truly empower all.

#### Palghat

Palghat Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 at Palakkad. The Keynote



address was delivered by Mr Sumesh K Menon, Founder & CEO, LYTTY Ventures Private Limited, Bangalore, who spoke on the digital progress in India, particularly the widespread adoption of UPI, QR codes and online health services

like Aarogya Setu and Ayushman App under the Digital India initiative. He emphasized the persistent gender gap in digital literacy, highlighting that men continue to outpace women in internet usage. Mr Menon praised Kerala's advancements in digital access and gender inclusivity, citing initiatives like Akshaya Kendras and K Smart. The insightful session prompted meaningful dialogue on bridging the digital gender divide.

#### Prayagraj

Prayagraj Local Centre, IEI, in association with the Institution of Electronics and Telecommunication Engineers (IETE), Allahabad Centre and Shambhunath

Institute of Engineering and Technology (SIET), Prayagraj, celebrated World Telecommunication and Information Society Day on 17 May 2025 at MNNIT Allahabad. The Chief Guest, Dr Vivek Garg, Founder Director, NVT Group, Bengaluru, emphasized systemic digital inequalities faced by girls and called for inclusive reforms in digital education. The Keynote speaker, Prof Geetika, Former HoD, SMS, MNNIT, Allahabad highlighted the global gender digital divide and proposed a 4E framework - Equity, Equality, Empowerment and Enablement. Er M K Singh, Chairman, IETE Allahabad, shared insights from the ITU Secretary General's message and Er J P Mishra, Dean, SIET, discussed telecommunication challenges.



#### Rourkela

Rourkela Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2025 in hybrid mode. Speaker of the session, Prof Medha Nayak, Assistant Professor, Department of Humanities and Social Sciences, NIT Rourkela delivered an insightful talk highlighting how digital technologies are reshaping our understanding and protection of the environment - from satellite data for tracking deforestation and predicting forest fires to mobile apps that support farmers amid climate change. She emphasized that while these innovations are transformative, unequal access, particularly for women and marginalized groups, poses a major barrier to inclusive progress. The talk was followed by an engaging discussion among academicians and industry professionals.



#### Sunabeda

Sunabeda Local Centre, IEI observed World Telecommunication and Information Society Day 2025 on 17 May 2025 at Sunabeda. Chief speaker, Er Sanjeev Kumar Mishra, Senior Manager (Testing), HAL, Sunabeda explained, how digital transformation opens new avenues for the empowerment of women, while also addressing the challenges posed by persistent stereotypes, discrimination, and cultural biases. Er. Sanjaya Kumar Bishoyi, Honorary Secretary, highlighted the global significance of WTISD 2025, stressing the importance of bridging the digital gender divide. He pointed out that while the digital world brings immense opportunities, unequal access continues to limit women's and girls' participation in education, employment, and civic life. The observance underscored the need to create inclusive digital spaces by equipping women with digital tools and skills, thereby contributing to economic and social progress.



#### Tiruvallur

Tiruvallur Local Centre, IEI celebrated World Telecommunication and Information Society Day on 16 May 2025 at Tiruvallur. A technical lecture on the topic '5G Mobile Network Features and Case Studies' was delivered by the distinguished speaker, Mr Baskar R, Sub Divisional Engineer, Rajiv Gandhi Memorial Telecom Training Centre (RGM TTC), who shared in-depth insights on 5G technology, highlighting its advanced features, practical applications across various industries and deployment challenges in India. The session was attended by participants, including ECE and CSE students, faculty members, research scholars and project teams focused on wireless communication, IoT and emerging digital technologies. Mr Baskar's expertise



in telecom infrastructure provided attendees with a comprehensive understanding of the role of 5G in accelerating digital transformation. The event fostered a rich learning experience and active interaction between the speaker and the audience. A formal vote of thanks was delivered on behalf of the organizing team, expressing deep appreciation to Mr Baskar and all attendees for making the session a meaningful and successful celebration of technological advancement.

#### Udaipur

Udaipur Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 at Udaipur. The Keynote speaker, Er Shafik Ahmad, General Manager, Secure Meters Limited spoke on advancements like 6G, AI tools like ChatGPT and Gemini and encouraged women to engage more in tech fields to meet UN SDG goals. Er Kavita Dhaker, Sub-Divisional Engineer, BSNL Udaipur, addressed barriers women face in digital spaces, including limited access to devices and cyber harassment. She presented data showing a stark digital divide and outlined BSNL's efforts to expand rural connectivity. She stressed the need for affordable access, female representation in tech leadership and training in ICT and emerging technologies for women.



#### Upper Assam

Upper Assam Local Centre, IEI celebrated World Telecommunication and Information Society Day on 22 May 2025 at Duliajan. Shri Chitra Mohan Borah, Executive Director, Frontier Basin, graced the occasion as Guest of Honour and addressed the gathering. The Keynote speech on the theme was delivered by Shri Chinmay Kr Sarma, CGM (Instrumentation), Oil India Limited. He highlighted the key aspects of digital transformation. A technical paper titled 'New Technologies in Radar Tech' was presented by Shri Rakesh Kalita, Manager (Excavation), NEC-CIL, Margherita, shedding light on innovations in radar technologies. The session was effectively summed up by Shri Arunav Baruah, CGM, Frontier Basin, Oil India Limited. The event marked a technically enriching and insightful programme that emphasized the importance of gender equality in the era of digital transformation.



#### Vadodara

Vadodara Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 at Vadodara. Er Foram Khanderiya, a young and erudite woman engineer delivered an inspiring Keynote address on the topic 'Role of Gender Equality in Digital Transformation'. Er Khanderiya captivated the audience by sharing her professional journey of working among 2000 male colleagues, emphasizing resilience, confidence and competence. Her remarkable narrative and engaging presentation -



infused with practical insights and equality-focused activities, reminded many of the legacy of Mrs Sudha Murthy, leaving a lasting impact on attendees. The event notably witnessed a significant participation of women engineers, underlining the growing momentum towards inclusivity in engineering and technology. Her lecture highlighted how digital transformation must prioritize equal representation and opportunity for women to achieve true progress. The session served not only as a celebration of telecommunication advancements but also as a powerful platform advocating for gender-balanced innovation in India's tech-driven future.

**Visakhapatnam**

Visakhapatnam Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 by organizing a virtual technical

session. Mr B S Srinivasa Rao, Assistant General Manager (Training), BSNL, Visakhapatnam, delivered an insightful lecture on World Telecommunication and Information Society, highlighting the transformative potential of digital technologies and the critical need for inclusive access. The event saw active participation from attendees, including Executive Committee members, Corporate Members and students. The speaker emphasized that achieving gender equality in digital transformation is essential for building inclusive, equitable and forward-looking societies. With focused efforts and collaborative action, technology can serve as a catalyst for gender equity and societal advancement. The session concluded with a call for inclusive digital strategies that empower all individuals, regardless of gender.



**The Institution of Engineers (India)**  
**Notification for**  
**R&D Grant-in-Aid**

To promote appropriate technology, assist in building up design & research talents and, most importantly, to help in nurturing potential R&D venture amongst engineering students pursuing Diploma/UG/PG/PhD courses, The Institution of Engineers (India) had instituted the R&D Grant-in-Aid program way back in 2001.

Like every year, the Institution invites applications for the session 2025-26 for funding industry-oriented R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing full time Diploma/UG/PG/PhD engineering program in AICTE/UGC/NAAC approved Institutions/Colleges/Universities. The application form and guidelines are available in our website <https://www.ieindia.org>. The projects should be carried out under the guidance of faculty members who are Corporate Members of IEI. Membership criteria for student investigator(s), guide(s) and Institution(s) are as follows:

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership	Quantum of Grant (INR)
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory	Not exceeding ₹15,000/- for a single project
2. UG (BE/BTech/AMIE/Equivalent)	SMIE	AMIE/MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation	Not exceeding ₹50,000/- for a single project
3. PG (ME/MTech/Equivalent)	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation	Not exceeding ₹1,00,000/- for a single project
4. PhD	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation	Not exceeding ₹1,50,000/- for a single project

The soft copy of the duly filled-up applications (in editable format), as per the pro-forma available in our website [www.ieindia.org](http://www.ieindia.org), should be sent through email to [research@ieindia.org](mailto:research@ieindia.org) and one printed copy of the same should reach the following address:

**Deputy Director (Technical)**

**The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020**

Applications received in format other than that available on our website will not be accepted. Application should be forwarded through the Guide, Head of the Department or Head of the Institution. Please note that preference will be given to project proposals received from Institutions who are Members of The Institution of Engineers (India) and with NBA / NAAC Accreditation. Kindly go through the guidelines ([visit link https://shorturl.at/BiAOQ](https://shorturl.at/BiAOQ)) carefully before filling up the application.

The grant is not intended for the faculty members / working individuals who have access to other avenues of research funding. Proposals received will be scrutinized and the recipients of R&D Grant will be informed accordingly.

## Empanelment as Advocate/ Attorneys & Chartered Accountant who are also Engineers

The Institution of Engineers (India) invites practicing Advocates/Attorneys and Chartered Accountants who are also Engineers to apply for empanelment to enhance their visibility in the public domain. Empanelment entails a nominal application fee of Rs. 5900/- (inclusive of GST) payable by Demand Draft/Multi-city Cheque drawn in favor of "**The Institution of Engineers (India)**" and payable at Kolkata.

Applicants are requested to send a hard copy of their application to the **Deputy Director (Membership)**, The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020. For further details, please visit our website at <https://www.ieindia.org/webui/iei-home.aspx>.

### Advertisement Rates in IEI Publications

#### IEI News (Printed + online)

Reach: 2,00,000 members by email + 400 hard copies to industries, Government Departments and others + Available online

**Schedule: Monthly - 12 issues in a year**

**Rate per issue**

Description	Size	Type	Total Cost (Rs.) (including GST)
Inside Full Page	20.6 cm (width) x 27.6 cm (height)	Colour	50,000
Inside Half Page	20.6 cm (width) x 13.75 cm (height)	Colour	30,000
Inside Quarter Page	10.3 cm (width) x 13.75 cm (height)	Colour	15,000
<b>5% discount for advertisement in 6 consecutive issues</b>			
<b>10% discount for advertisement in 12 consecutive issues</b>			

#### IEI Epitome (Online)

Reach: 1,25,000 members by email + Available online perpetually

**Schedule: Monthly - 12 issues in a year**

**Rate per issue**

Description	Size	Type	Total Cost (Rs.) (including GST)
Inside Full Page	18.9 cm (width) x 23.1 cm (height)	Colour	30,000
Inside Half Page	18.9 cm (width) x 11.55 cm (height)	Colour	15,000
Inside Quarter Page	9.46 cm (width) x 11.55 cm (height)	Colour	8,000
<b>5% discount for advertisement in 6 consecutive issues</b>			
<b>10% discount for advertisement in 12 consecutive issues</b>			

#### Annual Technical Volumes of Engineering Divisions (Online)

- ❖ Aerospace Engineering Division,
- ❖ Agricultural Engineering Division,
- ❖ Architectural Engineering Division,
- ❖ Chemical Engineering Division,
- ❖ Civil Engineering Division,
- ❖ Computer Engineering Division,
- ❖ Electrical Engineering Division,
- ❖ Electronics & Telecommunication Engineering Division,
- ❖ Environmental Engineering Division,
- ❖ Marine Engineering Division,
- ❖ Mechanical Engineering Division,
- ❖ Metallurgical and Materials Engineering Division,
- ❖ Mining Engineering Division,
- ❖ Production Engineering Division,
- ❖ Textile Engineering Division,
- ❖ Interdisciplinary Coordination Committee

Reach: 1,25,000 members by email + Available online

**Schedule: One issue in a year per Engineering Division**

**Rate per issue**

Description	Size	Type	Total Cost (Rs.) (including GST)
Back Cover Page	16.8 cm (width) x 22.6 cm (height)	Colour	30,000
Inside Cover Page	16.8 cm (width) x 22.6 cm (height)	Colour	25,000
Inside Full Page	16.8 cm (width) x 22.6 cm (height)	Colour	20,000
Inside Full Page	16.8 cm (width) x 22.6 cm (height)	B&W	15,000
Inside Half Page	16.8 cm (width) x 11.3 cm (height)	B&W	8,000

For booking, Please write to:

**Deputy Director (Technical)**

The Institution of Engineers (India), 8 Gokhale Road, Kolkata - 700020

Email: [technical@ieindia.org](mailto:technical@ieindia.org)/[dd.technical@ieindia.org](mailto:dd.technical@ieindia.org)

Payment is to be made by 'at par' cheque drawn in favour of **The Institution of Engineers (India)**/RTGS/NEFT

## Professional Engineers (PE) Certification by IEI — A Pathway towards Success

Get the **Professional Engineers Certification** by IEI to enhance your knowledge, skill and competency and also elevate your career by becoming a member of an elite group of engineers.

### Who can be a Professional Engineer —

- Having Bachelor's Degree in Engineering or equivalent recognized by Statutory Authority or Government of India;
- Having experience of at least 5 years in engineering practice.

### Why become a Professional Engineer (PE) —

- Improved career prospects and employability;
- Makes you suitable to attain higher levels of authority and responsibility;
- It is envisaged that in future, only a professional engineer would be empowered to prepare, sign, seal and submit engineering plans and drawings to a public authority for approval, or to seal engineering work for public and private clients;
- With growing economy and large scale expansion of infrastructure, the demand of PE certified engineers is expected to be much higher.

### How to apply for Professional Engineers?

The details are available on IEI Website

<https://shorturl.at/mRIYu>

or

scan the code



For any query and assistance, please send email to: [pe@ieindia.org](mailto:pe@ieindia.org) or contact (033) 40106275

## Corporate Air Ticketing for IEI Members

Corporate Members may book Corporate Air Ticket through M/s EBIX Travels Private Ltd. For details please visit

<https://www.ieindia.org/webui/IEI-AirTickets.html>

## Upgradation of Membership

Members of The Institution of Engineers (India) who meet the prescribed eligibility criteria are encouraged to apply for upgradation of their membership as follows:

Associate Members (AMIE) who fulfill the required experience and qualifications may apply for upgradation to the Member (MIE) or Fellow (FIE) grade, as applicable.

Members (MIE) who satisfy the requisite professional standing and contributions are invited to apply for elevation to the prestigious grade of Fellow (FIE).

For detailed eligibility criteria and application procedures, please contact:

Deputy Director (Membership)  
The Institution of Engineers (India)  
8 Gokhale Road, Kolkata 700020

✉ [dd.membership@ieindia.org](mailto:dd.membership@ieindia.org)

# News-in-Brief

The following are brief accounts of Technical Activities organised by various Centres and Fora

## STATE CENTRES

### Andhra Pradesh

Organised the inaugural Endowment Lecture in honor of Er Smt K Padmaja, the first woman Chief Engineer in Andhra Pradesh on 11 June 2025 on a momentous occasion that celebrated her pioneering contributions to civil engineering and inclusive leadership. The event featured a Keynote address on 'Artificial Intelligence and Its Applications' by Sri D Sai Satish, Founder and CEO, Indian Servers, who emphasized AI's transformative role in governance, cyber security, agriculture, education and disaster management. Prof (Dr) M L S Deva Kumar, Chairman, Andhra Pradesh State Centre, IEI highlighted Er Padmaja's legacy in rural infrastructure and gender-inclusive policies. Dignitaries, Dr M Ramesh, Principal, P B Siddhartha College and Er P Sudhakar, Retd CMD, ECIL, shared reflections on technical leadership and public service. An AV presentation showcased Er Padmaja's impactful career.

### Delhi

A Technical webinar on the topic 'Digital Defense: A Pillar of Progress and Prosperity for Modern India' was organised on 25 April 2025 at Delhi. The webinar featured distinguished speakers including Dr N Sarat Chandra Babu, Former Executive Director, Society for Electronic Transaction & Security (SETS), who spoke on future risks and emerging technologies in cyber security, highlighting the significance of IoT and Cyber Physical Systems. He emphasized that cyber security must be recognized as a core pillar of digital trust and national security to ensure India's strategic autonomy in the digital era. Brig (Retd) Anil Tandon, Director General, Broadband India Forum, also addressed the gathering, sharing valuable insights on digital defense strategies.

### Karnataka

A webinar on the occasion of World Earth Day 2025 was organised on 09 May 2025 at Bengaluru. The inaugural address was delivered by Er M Nagaraj, Chairman, Karnataka State Centre, IEI who highlighted the global significance of Earth Day, first observed on 22 April 1970, as a reminder of the need for environmental protection. Dr Rajendra S Poddar, Former Professor, UAS Dharwad and Former Director, WALMI Dharwad served as the Keynote speaker and elaborated on the theme 'Our Power – Our Earth'. He stressed the urgent need for a transition to renewable energy and the importance of collective efforts to triple clean energy output by 2030. Dr Poddar discussed various policy approaches including tax credits, financial incentives and guaranteed pricing for renewable energy to encourage adoption. He concluded by advocating for lifestyle changes, sustainable development and inclusive policies to safeguard the planet.

### Telangana

The 9<sup>th</sup> Er G V Subba Rao Endowment Lecture was organised on 19 June 2025 through virtual mode. Er P Surya Prakash, Council Member, IEI and Managing Director, Satya Vani Projects & Consultants Private Limited, Hyderabad delivered the Keynote address on 'Challenges in Delivering Infrastructure Projects in Border Areas', sharing his valuable insights and real-world experiences in executing complex infrastructure projects under challenging terrains and geopolitical conditions.

The 8<sup>th</sup> Er T Hanumantha Rao Endowment Lecture was organised on 21 June 2025 in hybrid mode. The Keynote lecture was delivered by Prof (Dr) Vinay Nangia, Research Team Leader – Soils, Waters and Agronomy, ICARDA,

on the topic 'Towards a Water-Smart Green Revolution: Viksit Krishi for Viksit Bharat', where he emphasized sustainable agricultural practices and efficient water management as key drivers for India's development.

### Uttar Pradesh

A technical talk on 'Insurance for Engineers, Power Plants and Industry' was organised on 21 June 2025 at Lucknow. Chief speaker of the session, Mr Hemant Johri, Insurance Consultant and Ex-Regional Manager, Oriental Insurance Company, Lucknow Division introduced a special insurance scheme tailored for engineers in industrial development and power generation sectors. Designed under the guidance of IRDAI with the support of major insurance firms, the scheme covers personal accident, health, professional liability and equipment damage, offering comprehensive protection for engineers working in high-risk environments. Mr Johri was assisted by Er Sushil Kumar Yadav, Manager, Technical Dept, Oriental Insurance Co, Lucknow.

A technical webinar on 'Hydroponics: The Art of Growing Crops without Soil' was organised on 05 July 2025. The Keynote address was delivered by Dr Pradeep Kumar, Senior Scientist (Horticulture), ICAR-CAZRI, Jodhpur who emphasized the importance of hydroponics as a sustainable, soil-less farming method ideal for urban areas, water-scarce regions and limited land spaces. He highlighted its role in empowering farmers, promoting environmental sustainability and addressing climate change challenges. The webinar highlighted the increasing interest among young farmers, women entrepreneurs and urban growers, aligning with the vision of Aatmanirbhar Bharat. Dr Kumar also noted the government's plan to establish 100 hydroponic model farms across various states with technical training, subsidies and financial support in 2025–26. A large number of engineers, professionals and students from various departments actively participated in the informative session.

### West Bengal

The 172<sup>nd</sup> Birth Anniversary of Sir R N Mookerjee was celebrated on 23 June 2025, at Kolkata. Guest Speaker, Shri Arijit Basuray, Managing Director, NEO TELE-TRONIX Privat, and Guest Faculty at Jadavpur University delivered the commemorative lecture titled 'My Journey as a Technocrat Entrepreneur', sharing insights from his personal experiences, including the challenges, growth and philosophical understanding gained through entrepreneurship. He further discussed different facets of entrepreneurship, the pros and cons of being an entrepreneur including special considerations for small entrepreneurs.

## LOCAL CENTRES

### Ahilyanagar

A technical lecture on 'Sugar Cogeneration: An Effective Source of Renewable Energy in India' was organised on 20 June 2025 at Ahilyanagar. Prof Dr S K Sheikh, Associate Professor, Department of Electrical Engineering, Dr Vithalrao Vikhe Patil College of Engineering, Ahilyanagar, delivered the lecture. Dr Sheikh elaborated on the cogeneration potential in India, especially in the sugar industry, discussing advantages such as enhanced energy efficiency (up to 90%), reduced CO<sub>2</sub> emissions, waste heat utilization and reduced dependence on fossil fuels. He presented a case study on the Pravara Sugar Plant and explained methods for determining steam and electricity pricing using the MLR method. Highlighting that India has over 550 sugar mills generating over 5000 MW of power, he emphasized the government's growing support for cogeneration.

## Aligarh

A technical lecture on 'Indian Air Force – An Overview' was organised on 21 June 2025 at Aligarh. Speaker of the session, Gp Capt Shahab Ali Khan (Air Veteran) provided an insightful overview of the Indian Air Force, including its structure, evolution and vital role in national security. He elaborated on the command hierarchy, operational commands and key functions of the IAF with a special focus on Strategic Transport Aircraft like the C-17, highlighting their role in both military and humanitarian missions. Capt Khan also discussed the modernization efforts within the IAF and emphasized the significance of indigenous technological advancements. He gave a comprehensive explanation of aircraft squadron operations and the crucial duties of Aircraft Maintenance Engineers. The session included engaging videos, including one detailing the use of an aircraft's emergency exit door, enhancing students' technical understanding. The interactive lecture was well-received by students and faculty, marking a highly educational and impactful event.

## Dhanbad

In association with the Department of Environmental Science & Engineering, IIT ISM Dhanbad, organized a Technical Lecture on 'Risk Assessment Mitigation Plan of Loyabad Colliery, BCCL' on 20 June 2025 at IIT ISM Dhanbad. Prof (Dr) Biswajit Paul, Professor, Department of Environmental Science and Engineering and Honorary Secretary, Dhanbad Local Centre, IEI provided an insightful introduction to the lecture topic, setting the stage for the keynote address delivered by Mr Shiva Murugan, Manager, Reval Consultancy Private Limited, who shared valuable strategies on risk mitigation at the Loyabad Colliery.

## Ghaziabad

In association with the Disaster Awareness & Management Forum, IEI, organized a technical lecture on 'Industrial Disaster (Fire) & Safety Measures' on 31 May 2025 at Ghaziabad. The Keynote speaker was Er Rajesh Sharma, Past Honorary Secretary, Delhi State Centre, IEI. Er Sharma defined industrial disasters as per IS15656:2006 and elaborated on fire causes, consequences, safety equipment, regulations, smart sensors and the integration of AI, ML and digital twin technology in fire safety. The engaging session sparked numerous audience queries, which the speaker addressed comprehensively.

## Jodhpur

In collaboration with UltraTech Cement Limited, organized the 11th Technical Lecture Series on the theme 'Alkali Activated Concrete using Recycled Aggregate for Sustainable Pavement Construction' on 05 July 2025 at Jodhpur. The Keynote Speaker, Er Sourabh Soni, PhD Scholar, BITS Hyderabad, delivered an insightful presentation on the use of alkali-activated concrete and recycled aggregate as sustainable alternatives in pavement construction. Er Manish Garg, Regional Head-TCS, Rajasthan West, UltraTech Cement Limited, introduced the Keynote speaker, while Dr Abhishek Arya, Convener & Joint Secretary, Jodhpur Local Centre, IEI elaborated on the topic. The event emphasized eco-friendly construction techniques using industrial waste and recycled aggregates, aligning with sustainable development goals.

## Kanpur

In collaboration with the All India Valuers Association (AIVA), Kanpur, organized a technical lecture on 'Cold Storage Energy Saving Strategies' on 03 May 2025 through virtual platform. Shri Anjaneesh Pratap Singh, Deputy Commissioner (Industries), Government of Uttar Pradesh, graced the occasion as the Chief Guest, and Dr Ajit K N Shukla, Director, SHEAT College of Engineering, Varanasi, served as the Guest Speaker. Dr Shukla emphasized the importance of adopting advanced refrigeration systems with variable frequency drives and digital controls, alongside sustainable practices such as LED lighting and renewable energy integration. He also

highlighted smart logistics, employee training and energy audits as key to fostering a culture of energy efficiency.

In collaboration with the All India Valuers Association (AIVA), Kanpur, organized a technical lecture on 'Saving of Electricity in Cold Storage in India' on 07 June 2025 through online platform. Er Prashant Kumar, Research Scholar, HBTU, Kanpur was the Guest Speaker and delivered an insightful lecture on energy-saving measures in cold storage systems. He highlighted the importance of energy-efficient technologies like high-efficiency compressors, LED lighting, smart controls and proper insulation, along with the integration of solar energy to reduce electricity consumption. Er Kumar emphasized that such innovations can lower costs and improve sustainability in the cold storage sector, benefiting small farmers and entrepreneurs.

## Ludhiana

An Expert Session on 'E Tractors & E Tillers' was organised on 17 June 2025 through online mode. Expert speaker, Dr Ashwani Kumar Kushwaha, Chief Scientist and Scientist In-Charge, CSIR-CMERI Ludhiana delivered an insightful presentation on the development and potential of electric tractors and tillers. Dr Kushwaha also discussed the current challenges, including high initial costs due to the technology being in its early stages and mentioned CSIR's efforts to advocate for government subsidies to promote adoption. He encouraged participants to experience the e-tractor and e-tiller firsthand. The event was well-attended and provided valuable knowledge to engineers, professionals and agricultural enthusiasts interested in sustainable farming solutions.

## Madurai

A Lecture Meeting was organised on 03 July 2025 at Madurai on the topic 'Sustainable Development through Circular Economy' focusing on the concept of the circular economy as a pathway to sustainable development. Speaker, Dr P Arulmathi, Assistant Professor (Selection Grade), Department of Civil Engineering, Anna University Regional Campus, Madurai delivered an insightful lecture highlighting the key concepts of circular economy such as resource efficiency, waste reduction, material circulation and regenerative systems. The session emphasized how this model supports environmental protection, economic growth and social progress while aligning with the UN Sustainable Development Goals.

## Munirabad

A mini project ideation event, AAVISHKARAH 2025, in association with the Department of Mechanical Engineering, Ballari Institute of Technology and Management (BITM), Ballari, was organised on 20 January 2025, at Ballari. A total of 133 students formed 32 teams and presented innovative projects, primarily centered on renewable energy and sustainable solutions. These projects aimed at addressing critical global concerns such as energy efficiency, sustainable resource use and environmental conservation. The event provided students with mentorship opportunities from field experts, enabling them to refine their ideas into viable, real-world applications. The innovative solutions presented served not only as academic efforts but as potential blueprints for meaningful societal impact through the engineering profession.

## Sunabeda

A special lecture session was organised on 12 June 2025 at Sunabeda on the topic 'Regression Analysis of Diffusion Annealing Process for Optimal Coating Thickness in Aero Engine Blade'. Er Manas Ranjan Subudhi, Chief Manager (Aggregate Shop), HAL, Sunabeda, served as the Chief Speaker and highlighted the application of regression analysis in optimizing coating thickness during diffusion annealing to enhance performance and reliability of turbine blades. Er Ranjit Kumar Sahu, Quality Control, HAL, Sunabeda elaborated on the practical applications and benefits of regression models in aerospace manufacturing. Er Sanjaya Kumar Bishoyi, Honorary Secretary, Sunabeda Local Centre, IEI emphasized the significance of the theme and its industrial relevance.

### Tiruchirappalli

In association with the Computer Society of India, Tiruchirappalli Chapter, organized an online technical lecture on Cyber Security Standards in Operation Technology (OT) on 17 June 2025 through online mode. Guest speaker of the session was Er M Mayavannan, Senior Consultant, TCS and Professor of Practice, Jerusalem College of Engineering, Chennai. During the lecture, Er Mayavannan shared valuable insights from his professional experience, focusing on contemporary developments in the computing and IT sector. The session offered participants a unique perspective on emerging technologies and their practical applications. Mr R Saravana Kumar, Former Director, CTS and Vice Chairman, CSI Coimbatore Chapter, delivered the concluding remarks.

In association with the Computer Society of India, Tiruchirappalli Chapter, organized an online technical lecture on the topic 'Exploring AI Tools for Education Sector' on 01 July 2025 through virtual mode. Guest speaker, Dr A Akila, Associate Professor, Department of Computer Science and Information Technology, School of Computing Sciences, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai, delivered an insightful and engaging lecture on contemporary advancements in computer science and their practical applications, sparking thoughtful interaction among the participants. Her presentation was well-received by the audience, which included professionals, academicians and students.

### Tiruvallur

The 45<sup>th</sup> Technical Lecture on 'Evolution & Importance of EV in Current Automotive Industry', was organised in collaboration with AI & IT on 26 June 2025 at Dr MGR University Main Campus. Mr Karthik K, Regional Training Manager, TATA Motors Private Limited, served as the Keynote speaker, delivering an insightful presentation on 'Evolution & Importance of EV in Current Automotive Industry in collaboration with AI & IT' and explained the integration of Artificial Intelligence (AI) and Information Technology (IT) in the Electric Vehicle (EV) sector. The session covered EV design principles, energy efficiency, environmental benefits, smart diagnostics, predictive maintenance, autonomous driving and connected vehicle technologies. The event aimed to bridge the gap between academic knowledge and industrial practices, encouraging innovation among students and professionals from Automobile, Mechanical, Electrical, Electronics and Computer Science disciplines.

### Vadodara

In association with the Forum for Awareness of National Security (FANS), Baroda Chapter, organized a Lecture Meeting on 'WARS: Then and Now' on 23 June 2025 at Baroda. The Keynote speaker, Shri Dinesh Patel, President, Poorva Sainik Seva Parishad delivered an engaging talk that connected ancient wars with modern warfare, highlighting their moral and religious dimensions.

### Warangal

Celebrated World Earth Day on 16 June 2025 at Warangal. The Keynote address was delivered by the Chief Guest, Prof Amba Prasad Rao, Professor (HAG), Department of Mechanical Engineering, NIT Warangal who discussed the Earth's geographical state and stressed the urgent need to shift to renewable sources like solar and wind to triple clean energy output by 2030. He also elaborated on India's suitability for solar energy, government initiatives like Surya Ghar Yojana and the need to ban single-use plastics.

## FORUM

### Rural Development Forum

An Awareness Programme for Rural Women about Sustainable Livelihood Programs was organised on 08 June 2025 at Madhusudanchak village under Nandakumar Gram Panchayat, Mathurapur-II Block, South 24 Parganas, West Bengal, in association with SATHEE and Sundarban Social Welfare Society, Madhusudanchak. The programme aimed to enhance rural women's awareness of their rights, economic independence, government schemes and entrepreneurial opportunities, while promoting gender equality. Janab Mujibar Rahaman Sk, Gram Panchayat Pradhan, Nandakumar, addressed the gathering as Guest of Honour. Dr Kunal Kanti Majumdar, Professor, Department of Community Medicine & Medical Superintendent cum Vice Principal [MSVP], KPC Government Medical College, Jadavpur, Kolkata and Ex-UNICEF Consultant, delivered an inspiring speech as Special Guest. The Keynote address was delivered by Dr Subir Roy, Entrepreneurship Expert, Entrepreneurship Development Institute of India and founder of Raiganj Institute of Inspiration and Empowerment for Livelihood Generation [RIELG], who emphasized livelihood empowerment through entrepreneurship.

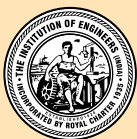


# 40<sup>th</sup> INDIAN ENGINEERING CONGRESS

Durgapur

Theme:

**Innovative Engineering Solutions for Viksit Bharat @ 2047**



Organized by

**The Institution of Engineers (India)**

Hosted by

**Durgapur Local Centre**

Date

**December 19-21, 2025**

For details pls visit: <https://40iec.org/>



# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)  
(IMS [ISO 9001:2015, ISO 14001:2015, ISO 50001:2018, ISO 45001:2018],  
ISO/IEC 17025:2017 Certified, AICTE & CEA Recognized Institution)

## Continuing Professional Development Programmes (CPDPs) for the Month of August 2025

Sl. No.	Name of the Course	Scheduled Dates
1.	Mechanical, Chemical Testing and Metallurgical Characterization of Metallic materials–Concepts, Equipment, Calibration, Data Analysis	04 – 08 Aug 25
2.	Engineering Simulation using LS–DYNA– With Hands–on Approach	04 – 08 Aug 25
3.	E-Waste Management-Issues, Collection and Disposal Mechanism	04 - 05 Aug 25
4.	Workshop on NBA and NAAC Accreditation	04 - 06 Aug 25
5.	Cyber Security Tools & Security Audit	04 - 07 Aug 25
6.	Operation, Maintenance and Performance Monitoring of Centrifugal Pumps, Blowers and Compressors (including Reciprocating and Screw Compressors)	04 - 07 Aug 25
7.	Operation, Maintenance & Testing of Power Transformers and HT Circuit Breakers	04 - 07 Aug 25
8.	Quality Control and Engineering Inspection	04 - 06 Aug 25
9.	Benchmarking Studies of Water Use Efficiency	04 - 08 Aug 25
10.	Climate Change, Public Policy, and Governance: Strategies for Mitigation & Adaptation	05 - 07 Aug 25
11.	Environmental and Social Challenges During Blasting in Opencast Mines and Their Mitigation	05 - 07 Aug 25
12.	Disciplinary Proceedings	05 - 07 Aug 25
13.	Laser Welding Technology (Practical Oriented Training Programme)	11 - 14 Aug 25
14.	Distribution Automation & SCADA	11 - 13 Aug 25
15.	5S for Work Place Excellence	11 - 13 Aug 25
16.	Orientation course for Overburden Removal Contractors and MDO in Coal Mining Projects	12 – 14 Aug 25
17.	Condition Assessment of Railway Bridges	18 – 22 Aug 25
18.	Engineering Simulation using Solid Works– With Hands–on Approach	18 – 22 Aug 25
19.	Web Development using MERN Stack	18 - 23 Aug 25
20.	Strategic Management and Financial Acumen for Engineers, Officers and HR Managers	18 - 21 Aug 25
21.	Lean Six Sigma Green Belt	18 - 22 Aug 25
22.	Soil & Water Conservation: Importance and Best Practices	18 - 20 Aug 25
23.	Faculty Development Workshop on Advanced Pedagogy, Accreditation, Research and Entrepreneurship	19 - 21 Aug 25
24.	BOSS Linux Administration	19 - 22 Aug 25
25.	Latest Technologies in Solar PV - Battery Energy Storage System (BESS)	19 - 22 Aug 25
26.	Water Pollution Monitoring & Modelling using Software Applications – Theory & Practical's.	20 - 22 Aug 25

For detail information please contact:

**Engineering Staff College of India**

Old Bombay Road, Gachibowli, Hyderabad – 500 032

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# IEI DIARY



## Agricultural Engineering Division

Thirty-seventh National Convention of Agricultural Engineers on **"Innovation Approaches in Agricultural Engineering for Agriculture of Viksit Bharat A Road Map for Next 25 Years"**  
Lucknow, August 29-30, 2025

The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers' Bhawan, River Bank Colony, Lucknow 226018 [☎: 0522-3512499, E-mail: upsc@ieindia.org, Website: www.ieiup.org.in]

One Day Seminar on **"Unlocking Opportunities Govt. Grants and Funding Schemes for Agricultural Research and Education"**  
Salem, August 30, 2025

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Road, 3rd Floor, SPC, Bhawan, Opp to Salem New Bus Stand, Salem 636004 [☎: 0427-2332544, E-mail: salemic@ieindia.org, Website: www.ieisl.com]

One Day Seminar on **"Reuse of Treated Waste for Agriculture"**  
Pune, August 30, 2025

The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhavan, 1332 J M Road, Shivajinagar, Pune 411005 [☎: 020-25533376 (Admin Incharge:8668475255 / Office Admin: 9822754165), E-mail: ieiplc41@gmail.com; punelc@ieindia.org, Website: www.ieipune.org]

All India Workshop on **"Agrishield Harnessing IoT Machine Learning and AI for Smart Crop Protection And Climate Resilience"**

Tiruchirappalli, September 02-03, 2025  
Tiruchirappalli, The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirappallilc@ieindia.org]

All India Seminar on **"The Role of Advanced Machinery in Postharvest Management from Farm to Market Efficiency"**

Coimbatore, November 06-07, 2025  
The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

## Aerospace Engineering Division

One Day Seminar on **"Advanced Strategies for Optimizing UAV Networks and Operational Efficiency"**

Coimbatore, August 08, 2025  
The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

One Day Seminar on **"Living in Space"**  
Kattankulathur, October 08, 2025

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203, [☎: 044-2745 2270]

All India Seminar on **"Priority of Safety Culture in Aviation Industry"**

Gwalior, October 24-25 2025  
The Honorary Secretary, IEI, Gwalior Local Centre, Green Park, Engineer Road, Behind New Collectorate, City Centre, Gwalior 474011 [☎:0751-2454168, E-mail: gwaliorlc@ieindia.org]

Thirty-eight National Convention of Aerospace Engineers on **"Advancing AI and Additive Manufacturing in Aerospace Industries"**

Salem, November 06-07, 2025  
The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Road, 3rd Floor, SPC, Bhawan, Opp to Salem New Bus Stand, Salem 636004 [Ph: 0427-2332544, E-mail: salemic@ieindia.org, Website: www.ieisl.com]

## Architecture Engineering Division

One Day Seminar on "Low Carbon Building Materials for Sustainable Built Environment"  
Coimbatore, August 25, 2025

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

All India Seminar on **"Road To 2070: Engineering India's Transition To Net-Zero"**

Gorakhpur, September 26-27, 2025  
The Honorary Secretary, IEI, Gorakhpur Local Centre, Administrative Block, Institute of Technology & Management, AL-1, Sector 7, GIDA, Gorakhpur 273209 [Mobile: 8707269768, Email: gorakhpurlc@ieindia.org, Website : www.ieigorakhpur.org]

Fortieth National Convention of Architectural Engineers on **"Towards Sustainable Cities -Strategies and Technologies"**

Kochi, October 09-10, 2025  
The Honorary Secretary, IEI, Kochi Local Centre, IEI Bhavan, Government Homeo Hospital Road, Pullepady, PO: Kaloor, Kochi 682017 [☎: 0484-2403838 / 2403993, E-mail: kochilc@ieindia.org; Website: www.ieikochi.org]

## Chemical Engineering Division

All India Seminar on **"Sustainability on Process During Chemical Operations"**

Thiruvananthapuram, September 19-20, 2025  
The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu

Palace, Thiruvananthapuram 605033, [☎: 0471-2322991, 8078027563; E-mail: keralasc@ieindia.org; Website: www.ieitvm.org]

All India Seminar on **"Innovations in Biotechnology: Shaping the Future of Health and Sustainability"**

Hosur, September 24-25, 2025  
The Honorary Secretary, IEI, Hosur Local Centre, 1/73, IEI HLC Building, Sri Venkateswara Colony, Kumudepalli, Hosur, Tamilnadu -635109 [Email: hosurlc@ieindia.org]

Fortieth National Convention of Chemical Engineers on **"Green Energy Technology and AI Enabled Sustainable Chemical Process"**

Visakhapatnam, October 11-12, 2025  
The Honorary Secretary, IEI, Visakhapatnam Local Centre, 43-18-22, "Visvesvaraya Bhavan", Venkatarajunagar, Railway Station Road, Visakhapatnam [☎: 0891-2947460, E-mail: visakhapatnamlc@ieindia.org; ieivisakha@gmail.com, Website: www.ieivisakha.org]

## Civil Engineering Division

All India Workshop on **"Unlocking Aerial Intelligence Drone Applications in Civil Engineering"**

Tiruchirappalli, August 12-13, 2025  
Tiruchirappalli, The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirappallilc@ieindia.org]

All India Workshop on **"Building A Greener Tomorrow Advances in Sustainable Construction"**

Kochi, August 22-23 2025  
The Honorary Secretary, IEI, Kochi Local Centre IEI Bhavan, Government Homeo Hospital Road, Pullepady, PO: Kaloor, Kochi 682017 [☎: 0484-2403838 / 2403993, E-mail: kochilc@ieindia.org; Website: www.ieikochi.org]

One Day Seminar on **"Utilization of Polythene Waste in High Way Construction"**

Bareilly, August 23, 2025  
The Honorary Secretary, IEI, Bareilly Local Centre, Engineers' Bhawan, 44 Camphor Estate Colony, Near Camphor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile : 9634953691, E-mail : bareillylc@ieindia.org, Website: www.blcieindia.in]

All India Seminar on **"Modern Civil Engineers Practices for Sustainable Infrastructure Development MSID 2025"**

Lucknow, August 24-25, 2025  
The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers' Bhawan, River Bank Colony, Lucknow 226018 [☎: 0522-3512499, E-mail: upsc@ieindia.org, Website: www.ieiup.org.in]

One Day Seminar on **"Green Building Technologies Towards A Sustainable Built Environment"**

Indore, September 17, 2025  
The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg

(Park Road), Indore 452003 [E-mail: indorelc@ieindia.org]

All India Seminar on **"Intelligent Drones in Industry 7.0 AI and IoT Driving the Future of Engineering"**

Salem, September 22-23, 2025

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Road, 3rd Floor, SPC, Bhawan, Opp to Salem New Bus Stand, Salem 636004 [Ph: 0427-2332544, E-mail: salemic@ieindia.org, Website: www.ieisl.com]

All India Seminar on **"Sustainable Retrofitting and Rehabilitation for Future Ready Infrastructure"**

Bareilly, September 26-27, 2025

The Honorary Secretary, IEI, Bareilly Local Centre, Engineers' Bhawan, 44 Camphor Estate Colony, Near Camphor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile: 9634953691, E-mail: bareillylc@ieindia.org, Website: www.blcieindia.in]

All India Workshop on **"Ultra High Performance Concrete UHPC for Advanced Structural Applications"**

Kattankulathur, September 30, 2025

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203, [Ph: 044-2745 2270]

All India Seminar on **"Forensic in Civil Engineering"**

Nagpur, October 10-11, 2025

The Honorary Secretary, IEI, Nagpur Local Centre, North Ambazari Road, Nagpur 440010 [Ph: 0712-2525617, E-mail: nagpuric@ieindia.org, Website: ieinagpur.net]

One Day Seminar on **"Urban Flood Management Strategies For Resilient Cities"**

Coimbatore, October 11, 2025

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [Ph: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

### Computer Engineering Division

One Day Seminar on **"Advanced Web Development Emerging Technologies and Best Practices"**

Puducherry, August 12, 2025

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701, E-mail: puducherryisc@ieindia.org, Website: www.ieipsc.org]

All India Seminar on **"AI Powered Innovations Shaping the Future of Healthcare"**

Coimbatore, August 21-22, 2025

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu,

Coimbatore, Tamilnadu 641004 [Ph: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

One Day Seminar on **"AI and Machine Learning in Quantum Computing Bridging the Future of Intelligent Systems"**

Kattankulathur, September 08, 2025

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203, [Ph: 044-2745 2270]

International Conference on **"International Conference in Business Intelligence and Data Analytics"**

Jaipur, October 04-05, 2025

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015, [Ph: (0141) 2706327, E-mail: rajasthansc@ieindia.org]

Thirty-eight National Convention of Computer Engineers on **"Quantum Computing for Nextgen Digital Transformation Bridging Innovation with Intelligence"**

Salem, October 27-28, 2025

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Road, 3rd Floor, SPC, Bhawan, Opp to Salem New Bus Stand, Salem 636004 [Ph: 0427-2332544, E-mail: salemic@ieindia.org, Website: www.ieisl.com]

All India Seminar on **"Artificial Intelligence Design Thinking and Innovation"**

Agartala, December 19-20, 2025

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Gurkhabasti, PO: Kunjaban, Agartala, West Tripura 799006 [Ph: 0381-2304700, Mobile: 9774129593; Email: tripurasc@ieindia.org; ieitripura@gmail.com, Web: www.ieitripura.org]

### Electrical Engineering Division

One Day Workshop on **"Redefining Electrical Systems and Installations"**

Indore, August 20, 2025

The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg (Park Road), Indore 452003 [E-mail: indorelc@ieindia.org]

One Day Seminar on **"Electric Vehicles Steering Towards A Greener Future"**

Puducherry, August 21, 2025

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701, E-mail: puducherryisc@ieindia.org, Website: www.ieipsc.org]

All India Workshop on **"Energy Sphere IoT Powered Smart Grids for Sustainable Cities and Green Power"**

Chennai, August 29-30, 2025

The Honorary Secretary, IEI, Tamil Nadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai 600005 [Ph: 044-25360614 / 9962950333, E-mail: ieitamilnadu@gmail.com; tnscc@ieindia.org, Website: www.ieitnsc.org]

All India Workshop on **"Signal Intelligence Winter School on Image and Signal Processing"**

Kattankulathur, September 09-10, 2025

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203, [Ph: 044-2745 2270]

One Day Workshop on **"Essentials of Electric Vehicle Hardware Design"**

Coimbatore, September 12, 2025

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [Ph: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

One Day Seminar on **"Smart Cities and Digital Transformation"**

Kanpur, September 27, 2025

The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTU Campus, Nawabganj, Kanpur 208002 [Mobile: 9140018277, E-mail: kanpuric@ieindia.org, Website: www.ieikanpur.org]

Fortieth National Convention of Electrical Engineers on **"Influence of Artificial Intelligence on Modern Trends in Electricity Generation, Transmission & Distribution"**

Thiruvananthapuram, October 15-16, 2025

The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram 605033, [Ph: 0471-2322991, 8078027563; E-mail: keralasc@ieindia.org; Website: www.ieitvm.org]

All India Seminar on **"Innovation And Sustainability in the Power Sector and Electricity Market"**

Chandigarh, November 07-08, 2025

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Plot No.1-A, Engineers Bhawan, Madhya Marg, Sector 19-A, Chandigarh 160019 [Ph: 0172-2775418, E-mail: pcsc@ieindia.org; ieichd@yahoo.com, Website: www.ieichd.org]

### Electronics & Telecomm. Engineering Division

All India Seminar on **"Quantum Machine Learning For Next Generation Wireless"**

Prayagraj, August 16, 2025

The Honorary Secretary, IEI, Prayagraj Local Centre, 'Engineers Bhawan', MNNIT Campus, Teliarganj, Prayagraj 211004, [Ph: 0532-2545539/2271149, E-mail: allahabadlc@ieindia.org]

All India Seminar on **"Design and Optimization Aspects of Smart Antenna Systems for 6G"**  
Bhimavaram, August 21-22, 2025

The Honorary Secretary, IEI, Bhimavaram Local Centre, First Floor, General Amenities Building, SRKR Engineering College, PO: Chinnaamiram, Dist -West Godavari, Bhimavaram 534204, [☎: 08816-233522, E-mail: bhimavaramlc@ieindia.org]

Fortieth National Convention of Electronics and Telecommunication Engineers on **"IoT and Sensor Embedded IoT Driving Smart Connectivity"**

Faridabad, December 03-04 2025

The Honorary Secretary, IEI, Faridabad Local Centre, 2nd Floor, Bank Building, J C Bose University of Science and Technology (YMCA), Sector 6, Faridabad 121006, Ph. : 01292245008, E-mail: faridabadlc@ieindia.org, Websites : www.ieifbdlc.in]

### Environmental Engineering Division

Thirty-ninth National Convention of Environmental Engineers on **"Environment and Digital World for Sustainable Development"**

Chennai, August 22-23 2025

The Honorary Secretary, IEI, Tamil Nadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai 600005 [☎: 044-25360614 / 9962950333, E-mail: ieitamilnadu@gmail.com; tnsc@ieindia.org, Website: www.ieitnsc.org]

All India Seminar on **"Air Pollution and Control in Factories and Industries"**

Hosur, August 28-29, 2025

The Honorary Secretary, IEI, Hosur Local Centre, 1/73, IEI HLC Building, Sri Venkateswara colony, Kumudepalli, Hosur, Tamilnadu -635109 [Email: hosurhc@ieindia.org]

All India Workshop on **"Smart Solutions for Environmental Applications"**

Dhanbad, November 03-04, 2025

The Honorary Secretary, IEI, Dhanbad Local Centre, Signature Corals Apartment, Flat No.B/4, First Floor, Block – A, Kusum Vihar, Phase-I, PO: BCCL Township, Koyla Nagar, Dhanbad 826005, Jharkhand, Mobile: 9934896322/8789853083, E-mail: dhanbadlc@ieindia.org; Website: www.iedhanbad.org

All India Seminar on **"Energy Efficiency in Heating Ventilations and Air Conditioning"**

Ranchi, February 8-9, 2026

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO: Doranda, Ranchi 834002 [☎: 0651-3510412, E-mail: jharkhandsc@ieindia.org; Website: ieijscjharkhand.org]

### Marine Engineering Division

Thirty-seventh National Convention of Marine Engineers on **"Environment Protection and Port Safety"**

Vijayawada, September 03-04, 2025

The Honorary Secretary, IEI, Andhra Pradesh State Centre, Dr K L Rao Bhavan, #29-33-14, Near Civil Courts, Gopal Reddy Road, Governorpet, Vijayawada 520002 [☎: 0866 – 2576822, Email: apsc@ieindia.org, Website: www.ieiapsc.org]

### Mechanical Engineering Division

All India Seminar on **"Industrial Hydraulics and Automation"**

Madurai, August 13-14, 2025

The Honorary Secretary, IEI, Madurai Local Centre, Er TM Jambulingam Bhavan, No. 1, Vivekananda Nagar, 120 Feet Road, Surveyor Colony, K Pudur, Madurai 625007 [☎: 0452-4373067, E-mail: madurailc@ieindia.org, Website: www.ieimadurailc.org]

All India Workshop on **"Innovations in Sustainable Energy Storage and Fuel Cell Technologies"**

Tiruchirappalli, August 21-22, 2025

The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirapallilc@ieindia.org]

Fortieth National Convention of Mechanical Engineers on **"Recent Advances in Mechanical Engineering"**

Durgapur, August 23-24, 2025

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B Zone, Durgapur 713 205 [ Fax: 0343-2564770, Email: durgapurhc@ieindia.org, Website: http://www.ieidurgapurhc.org]

One Day Seminar on **"Data Driven Lean Leveraging Smart Manufacturing For Continuous Improvement"**

Coimbatore, August 29, 2025

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

All India Seminar on **"Shaping the Future: Innovations in 3D and 4D Printing Technologies"**

Prayagraj, August 30-31, 2025

The Honorary Secretary, IEI, Prayagraj Local Centre, 'Engineers Bhawan', MNNIT Campus, Teliarganj, Prayagraj 211004 [☎: 0532-2545539/2271149, E-mail: allahabadlc@ieindia.org, website: www.ieiallahabad.org]

All India Seminar on **"Additive Manufacturing for Enhanced Productivity"**

Agartala, September 05-06, 2025

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Gurkhabasti, PO: Kunjaban, Agartala, West Tripura 799006 [☎: 0381-2304700, Mobile: 9774129593; Email:

tripurasc@ieindia.org; ieitripura@gmail.com, Web: www.ieitripura.org]

All India Workshop on **"Recent Trends and Technology in Refrigeration Air Conditioning"**

Indore, September 09, 2025

The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg (Park Road), Indore 452003 [E -mail:indorelc@ieindia.org]

All India Seminar on **"A Comprehensive Insights into Vibrationbased Condition Monitoring Theory Techniques Applications"**

Coimbatore, September 19-20, 2025

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

International Conference on **"Advancements in Aerospace, Mechanical and Materials Engineering"**

Vijayawada, February 01-02, 2026

The Honorary Secretary, IEI, Andhra Pradesh State Centre, Dr K L Rao Bhavan, #29-33-14, Near Civil Courts, Gopal Reddy Road, Governorpet, Vijayawada 520002 [☎: 0866 – 2576822, Email: apsc@ieindia.org, Website: www.ieiapsc.org]

Forty-first National Convention of Mechanical Engineers on **"Emerging Domains in Robotics and AI"**

Thiruvananthapuram, September 23-24, 2026

The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram 605033 [☎: 0471-2322991, 8078027563; E-mail: keralasc@ieindia.org; Website: www.ieitvm.org]

### Metallurgical & Materials Engineering Division

All India Seminar on **"Metallurgy in Industry Essential Concepts and Uses"**

Jaipur, August 30-31, 2025

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015, [☎: (0141) 2706327, E - m a i l : rajasthansc@ieindia.org]

### Mining Engineering Division

Thirty-fifth National Convention of Mining Engineers on **"Mining And Environment Quo Vadis 2070"**

Dhanbad, November 07-08, 2025

The Honorary Secretary, IEI, Dhanbad Local Centre, Signature Corals Apartment, Flat No.B/4, First Floor, Block – A, Kusum Vihar, Phase-I, PO: BCCL Township, Koyla Nagar, Dhanbad 826005, Jharkhand, Mobile: 9934896322/8789853083, E-mail: dhanbadlc@ieindia.org; Website: www.iedhanbad.org

### Textile Engineering Division

#### Thirty-eighth National Convention of Textile Engineers on "Emerging Challenges of Sustainable Textiles"

Ghaziabad, September 05-06, 2025

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15, Shopping Complex, ALT Centre, Rajnagar, Ghaziabad 201002 [☎: 0120-2702673, Email: ghaziabadlc@ieindia.org]

#### One Day Seminar on "Indian Textile Industry in New Tariff Era"

Kanpur, October 29, 2025

The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTU Campus, Nawabganj, Kanpur 208002 [Mobile: 9140018277, E-mail: kanpurlc@ieindia.org, Website: www.ieikanpur.org]

### Interdisciplinary Coordination Committee

#### One Day Seminar on "Green Energy and Sustainable Development"

Puducherry, August 11, 2025

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701, E-mail: puducherryisc@ieindia.org, Website: www.ieipsc.org]

#### All India Seminar on "Biotechnology: Harnessing Life Sciences for A Better Tomorrow"

Thiruvananthapuram, August 12-13, 2025

The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram 605033, [☎: 0471-2322991, 8078027563; E-mail: keralasc@ieindia.org; Website: www.ieitvm.org]

#### All India Seminar on "Green India Mission"

Tiruchirappalli, August 22-23 2025

The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli

620014, Tamil Nadu [E-mail: tiruchirapallilc@ieindia.org]

### National Languages Promotional ommittee

#### One Day Seminar on "Role of Engineers and Traffic enforcing authorities towards mitigation of Road Accident Disasters"

Hyderabad, August 14, 2025

The Honorary Secretary, IEI, Telangana State Centre, 6-2-910, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004, Telangana [☎: 040-23314969, E-mail: telanganasc@ieindia.org]

#### All India Seminar on "Total Quality Management for Field Civil Engineers"

Puducherry, October 04-05 2025

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701, E-mail: puducherryisc@ieindia.org, Website: www.ieipsc.org]

# 58<sup>th</sup> ENGINEERS' DAY

## Theme: Deep Tech & Engineering Excellence: Driving India's Techade

**September 15** is celebrated every year in the country since the year 1967 as "Engineers' Day" to commemorate the birthday of the legendary engineer Sir Mokshagundam Visvesvaraya. Sir Visvesvaraya, an eminent Indian engineer and statesman was born in a remote village of Karnataka, the State that is incidentally now the Hi-tech State of the country. Due to his outstanding contribution to the society, Government of India conferred "Bharat Ratna" on this legend in the year 1955. He was also called the precursor of economic planning in India. His learned discourse on Economic Planning in India, Planned Economy for India and Reconstructing India, was the first available document on the planning effort of the country and it is still held as the parent source matter for economic planners. A theme of national importance is chosen every year by the Council of the Institution and deliberated at its various State/Local Centres to educate the engineering fraternity in general and the society in particular. This year the 58<sup>th</sup> Engineers' Day will be celebrated all over the country on the theme "**Deep Tech & Engineering Excellence: Driving India's Techade**".



Bharat Ratna Sir M Visvesvaraya

On 15<sup>th</sup> September 2025, The Institution of Engineers (India) (IEI) celebrates Engineers' Day across all State and Local Centres, paying tribute to Sir M. Visvesvaraya, whose vision laid the foundation for engineering excellence in India. The theme, "**Deep Tech & Engineering Excellence: Driving India's Techade**," underscores the crucial role of engineers in steering AI, Quantum

Computing, Semiconductors, Robotics, and Advanced Materials toward national growth and global competitiveness.

As India enters its Techade, deep tech innovations are reshaping industries and redefining progress. Unlike conventional IT solutions, these technologies demand long-term R&D, scientific rigor, and advanced engineering expertise. Recognizing this, the Government of India introduced the National Deep Tech Start-up Policy (NDTSP) in 2024 to support startups and researchers working on transformative technologies. But fostering deep tech is not just about policies—it requires a robust ecosystem where research translates into industrial applications, and engineers play a defining role in this shift.

IEI, with its rich legacy of advancing engineering research and innovation, has long been a catalyst in this transformation. Through its R&D Grant-in-Aid Scheme, IEI has supported breakthrough ideas even at the undergraduate level, enabling young engineers to experiment, innovate, and create impactful solutions. This commitment to engineering-led progress has earned IEI recognition as a Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India. By fostering research, bridging academia with industry, and nurturing talent, IEI has positioned itself as a key enabler of India's deep tech journey.

As we mark Engineers' Day 2025, it is evident that deep tech is no longer an emerging field—it is the present and the future. The challenge ahead is immense, but so is the opportunity. With vision, expertise, and unwavering commitment, engineers must innovate, lead, and build technologies that will drive India's transformation into a global powerhouse. And as always, IEI stands ready to support this mission, ensuring that India's engineering community continues to push the boundaries of possibility.



# The Institution of Engineers (India)

## IEI Industry Excellence Award 2025

### Request for Participation

The IEI Industry Excellence Award has been instituted to recognize industry leaders for their innovation, excellence in engineering operations and thereby, to lead their industry in competitive manner. The benchmarks created by the industries in India have included productivity, quality, safety and performance assurance thereby giving India the rightful place in the global markets. Realizing that such industries can provide the leadership to a large number of other industries in the country, it has been considered appropriate by the IEI Council to institute the IEI Industry Excellence Awards in the year 2008.

Applications in specified format (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award>) are invited from prospective applicants for IEI Industry Excellence Award 2025. The last date of receipt of application for the Award 2025 is **30 October 2025**. Interested applicants are requested to send their applications (Two hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

**Deputy Director (Technical)**

The Institution of Engineers (India)  
8 Gokhale Road, Kolkata 700 020



# The Institution of Engineers (India)

## IEI Engineering Education Excellence Award 2025

### Request for Participation

The IEI Engineering Education Excellence Award has been instituted to recognize leading Engineering Educational Institutions and encourage for better and more effective engineering education across the country. The engineering education sector has witnessed significant development, setting benchmarks for others to follow. Universities and institutions have expanded their scope beyond pedagogy and now engage in R&D activities, consultancy, patents, publications, skill development programs, industry interface, and the implementation of the New Education Policy (NEP), contributing to India's global prominence. Recognizing that such institutions can lead and inspire numerous others in the country, the IEI Council has decided to establish the IEI Engineering Education Excellence Awards.

Prospective applicants are invited to submit their applications in the specified format

(visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#engineering-education-excellence-award>) for the IEI Engineering Education Excellence Award 2025. The deadline for submitting of applications for the Award 2025 is **30 October 2025**. Interested applicants are requested to submit their applications (Four hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

**Deputy Director (Technical)**

The Institution of Engineers (India)  
8 Gokhale Road, Kolkata 700 020

## Chartered Engineer Certification

The Members who have not availed the Chartered Engineer Certificate [CEng(I)], are requested to apply online:

<https://www.ieindia.org/WebUI/iei-Memb.aspx#chartered-engineering>

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