

*A Century of Service to the Nation*

**Volume 10 | Issue 9 | September 2025**

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**IEI  
EPI  
TOME**

# Notification on the R&D

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## IEI 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) has instituted the R&D Grant-in-Aid programme 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 lifestyle of common people from engineering students pursuing full-time Diploma/UG/PG/PhD engineering programme in AICTE/UGC/NAAC approved Institutions/Colleges/Universities. The application form and guidelines are available on 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:

**The 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>) 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.

# Members in the News

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**Dr Aliasker K T, FIE**  
Retired Technical Teacher, IEI  
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**Dr Aliasker K T** received the **Doctor of Philosophy (Ph.D.)** degree in Mechanical Engineering from Karpagam Academy of Higher Education (Deemed to be University), Coimbatore, Tamil Nadu on 26 July 2025.



**Dr Srinivasa Rao Pundru, FIE**  
Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad, Telangana  
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**Dr Srinivasa Rao Pundru** received the **Nobel Researcher Award** in the field of Mechanical Engineering from Scientific Laurels on 5 June 2025.

**40<sup>th</sup> Indian Engineering Congress**  
19-21 December 2025  
Theme  
**Innovative Engineering Solutions for Viksit Bharat @ 2047**  
Organized by  
*The Institution of Engineers (India)*  
Hosted by  
Durgapur Local Centre  
For details, please click on: <https://40iec.org/>

# Publication by Members

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## Book Chapter



**Professor Prashant M Menghal**, FIE

Professor

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### **Title of Book Chapter: Performance Improvement of Wideband Microstrip Patch Antenna at 49 GHz for 5G Applications**

Chapter 9, Renewable Energy, Green Computing, and Sustainable Development, Proceedings of Second International Conference, REGS 2025, Hyderabad, India, February 21–22, 2025, Part II, Part of the Book Series: Communications in Computer and Information Science (CCIS, Volume 2613), Springer Cham, August 2025, pp 116–128, Softcover ISBN: 978-3-032-00982-1 (Published: 01 August 2025), eBook ISBN: 978-3-032-00983-8 (Published: 31 July 2025), Series ISSN: 1865-0929, Series E-ISSN: 1865-0937

**DOI:** [https://doi.org/10.1007/978-3-032-00983-8\\_9](https://doi.org/10.1007/978-3-032-00983-8_9)

**Co-authors:** Ayushman Neeraj, Marella Tej Pratap & Suryansh Choudhary

**Abstract:** The paper presents a microstrip patch antenna with a metamaterial design at millimeter-wave (mm-wave) frequency for 5G use case. Initially a traditional microstrip patch antenna with inset feeding technique is designed. Then a superstrate, a double ring split ring resonator (SRR) on top of this superstrate is inculcated into the conventional antenna design. The effects/results of the SRR metamaterial structure on the antenna are observed and analyzed in Ansys Electronics HFSS (High-Frequency Structure Simulator). The substrate and superstrate are made of Rogers Ultralam 1300 ( $\epsilon_r = 3$ , loss tangent = 0.003). The proposed antenna has a resonating frequency of 49.06 GHz. It obtained a high return loss of 40.14 dB, a low VSWR of 1.0199, and a wide bandwidth of 58.173% (28.54 GHz). It obtained a good gain of 7.8 dB with a radiation efficiency of 99.775%. The size of the antenna is  $6.8963 \times 7.988 \times 0.7 \text{ mm}^3$ , the bandwidth ranges from 35.38 GHz to 63.92 GHz which is a large range of frequencies covering the mm-wave spectrum and also the size is small enough to incorporate into 5G mobile applications.

## IEI AWARD

The Coal India Ltd (CIL) had instituted an Award to perpetuate the memory of Late J G Kumaramangalam, its first Chairman to be awarded every year during the Indian Engineering Congress to author/s of the articles adjudged best on a selected topic. The topic for the year 2025 is given below.

### **COAL INDIA (J G KUMARAMANGALAM MEMORIAL) AWARD**

#### **“Energy Efficiency”**

The articles preferably restricting to 3000 words along with good quality photographs may be submitted along with a Declaration Form to [award@ieindia.org](mailto:award@ieindia.org) within **30 October 2025**.

The template of the paper and the Declaration Form are enclosed, which are also available under the following link: [https://www.ieindia.org/webui/IEI-Activities.aspx#Call\\_Papers](https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers).

Intending contributors are requested to send the soft copy of the paper by email to [award@ieindia.org](mailto:award@ieindia.org) (with subject heading Paper for Coal Award) and submit four nos. printed copies of their articles to :

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

# Publication by Members

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## Paper published in the Journals / Proceedings



**Er Ravi M, MIE**

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Water Resources Department, Mining and Monitoring Sub Division, Madurai, Tamil Nadu

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### **Title of Paper: Hydrogeochemical Evaluation and Groundwater Quality Assessment in Madurai South Taluk, Tamil Nadu, India**

Journal of Environmental Studies [JES], Sohag University, Society Service and Environment Development Sector, 39(1), September 2025, pp 25-44, Print ISSN: 2314-5579, Online ISSN: 2682-3942

**DOI:** <https://doi.org/10.21608/jesj.2025.390385.1130>

**Co-authors:** Dinesh Kumar M, Tholkapiyan M & Venkatraman V

**Abstract:** This study presents a hydrogeochemical evaluation and groundwater quality assessment of Madurai South Taluk, Tamil Nadu, India. An agriculturally intensive region where groundwater is the primary source for irrigation and drinking. Groundwater samples collected from 2008 to 2022, during both pre- and post-monsoon seasons, were analyzed for key physicochemical parameters. These were compared against BIS:10500 (2012) and WHO (2011) guidelines for drinking water, and BIS:11624 (1986) standards for irrigation suitability. Parameters such as pH, EC, TDS, Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>2+</sup>, Mg<sup>2+</sup>, HCO<sub>3</sub><sup>-</sup>, Cl<sup>-</sup>, SO<sub>4</sub><sup>2-</sup>, CO<sub>3</sub><sup>2-</sup>, NO<sub>3</sub><sup>-</sup>, F<sup>-</sup>, SAR, RSC, and Na% were assessed. Box and Whisker plots for 2022 indicated that most samples fell within acceptable limits for both drinking and irrigation. However, a few samples exhibited elevated salinity or poor sodium and potassium levels, limiting their suitability. Piper Trilinear Diagrams revealed NaCl and mixed CaNaHCO<sub>3</sub> types predominating during the pre-monsoon, shifting to CaHCO<sub>3</sub> and mixed CaMgCl types post-monsoon attributed to ion exchange and surface contamination. The Gibbs Diagram suggested that most samples were influenced by evaporation processes and anthropogenic activities such as irrigation return flow, while a few indicated rock-water interactions involving silicate and carbonate dissolution. The USSL Diagram for 2022 showed that 7 out of 9 pre-monsoon and 8 out of 12 post-monsoon samples were suitable for irrigation, reflecting variable salinity and sodium hazards. Overall, the findings emphasize the need for continuous monitoring and integrated water management in the region.

**Keywords:** Physicochemical Parameters; Piper Trilinear Diagram; Gibbs Diagram; USSL Diagram; Irrigation Suitability

## 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 a 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 is **30 October 2025**. Interested applicants are requested to send their applications (Two hard copies & One soft copy in USB drive) to the below mentioned address.

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

# Publication by Members

Volume 10 | Issue 9 | September 2025



**Er Rajeev Ranjan Sandilya, MIE**  
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## **Title of Paper: The Emerging Marketing Strategy of Digital Health Technology: A Case Study of a Health Tech Company**

Gradiva Review Journal, Elsevier, 11(8), August 2025, pp 17-28, ISSN: 0363-8057

**URL:** <https://gradivareview.com/wp-content/uploads/2025/08/3.GRJ8455.pdf>

**Abstract:** Telemedicine and digital marketing are two emerging technologies in the health tech sector. The study employs Porter's Five Forces and PESTLE analyses to evaluate the health technology digital platform business model, with a focus on services such as telemedicine and medical tourism. The analysis enables health tech firms to develop strategies that are not only responsive to the current market conditions but also proactive in shaping their competitive landscape in the medical environment. These analyses facilitate the identification of opportunities and threats, enabling strategic decision-making and business model innovation within this dynamic health tech industry. The convergence of technology and management framework holds the potential to redefine medical paradigms and offers unprecedented opportunities for innovation and improved patient outcomes. The data-driven decision-making (DDDM) method is employed to formulate a marketing strategy, specifically focusing on segmentation, targeting, and positioning (STP) for patient engagement. The political, economic, sociological, technological, legal, and environmental factors contribute to the attractiveness of patients, medical providers, and insurance companies on web-based digital platforms and handset-based applications. The improved service quality achieved through the deployment of information technology, such as artificial intelligence (AI), encrypted data files, and technological advancements in medical sensor equipment, is expected to drive growth in the digital medical sector.

**Keywords:** Health Tech Business Model; Pestle Analysis of Health Tech; Porter's Five Forces in Health Tech; Health Tech Marketing Strategy; Health Tech Digital Platform

## **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 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 programmes, 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 is **30 October 2025**. Interested applicants are requested to submit their applications (Four hard copies & One soft copy in Pen Drive/CD) to the below mentioned address.

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

# Publication by Members

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**Er Sashi Kanth Betha, MIE**

Assistant Professor

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**Title of Paper: Crop Leaf Disease Prediction Using Graph Diffusion TCN with Fibroblast Optimization**

Journal of Machine and Computing, AnaPub Publications, 5(3), July 2025, pp 1736-1744, ISSN (Online) : 2788-7669, ISSN (Print) : 2789-1801

DOI: <https://doi.org/10.53759/7669/jmc202505137>

**Co-authors:** Pallavi L, Santosh Kumar Upadhyay, Satheesh Kumar S, Lakshmanarao A & KrishnaPrasad B

**Abstract:** Crop leaf disease prediction is plagued by insufficient generalization over different crop species, the lack of differentiation between similar disease symptoms, and variable environmental conditions affecting image quality. Poorly labelled datasets, model over-fitting, and real-time deployment issues all affect the accuracy and reliability of detecting illnesses in agriculture applications. With the PlantVillage dataset, the Random Graph Diffusion Dual Channel Temporal Convolutional Network with Synergistic Fibroblast Optimization (RGD-DCTCNet-SFO) is employed to resolve these challenges in crop leaf disease detection. The pre-processing by the Blind DE-blurring based Light Weight Wiener Filter (BDE-LWWF) is the first step in the process, which enhances image quality by reducing noise and blurring. Return-Aligned Decision Transformer (RADT) provides accurate boundary definition to enable segmentation by identifying regions using deviation analysis. After features have been obtained, the Random Graph Diffusion Dual Channel Temporal Convolutional Network (RGD-DCTCNet) is utilized for effective crop leaf disease classification. Synergistic Fibroblast Optimization (SFO), which boosts the accuracy of classification and minimizes errors, performs optimization on the search process of ill regions for further improved performance. The RGD-DCTCNet-SFO algorithm surpasses existing methods, recording 99.9% efficiency and 99.8% sensitivity, based on experimental outcomes of a Python-based study. The approach provides a robust and reliable solution for agricultural analysis by significantly improving the accuracy of crop leaf disease diagnosis.

**Keywords:** Crop Leaf Disease; Plant Village; Return-Aligned Decision Transformer; Synergistic Fibroblast Optimization; Wiener Filter

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## 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 are 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

# Publication by Members

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contd. from previous page

## Title of Paper: An Efficient Attention Densenet with LSTM for Lung Disease Detection and Classification Using X-Ray Images Supported by Adaptive R2-Unet-Based Image Segmentation

Archives of Physiology and Biochemistry, Taylor & Francis, July 2025, Print ISSN: 1381-3455 Online ISSN: 1744-4160

DOI: <https://doi.org/10.1080/13813455.2025.2524182>

Co-authors: Dondapati Rajendra Dev, Kalyani Sunkara, Pradeep Vinaik Kodavanti & Anusha Putta

**Abstract:** Lung diseases represent one of the most prevalent health challenges globally, necessitating accurate diagnosis to improve patient outcomes. This work presents a novel deep learning-aided lung disease classification framework comprising three key phases: image acquisition, segmentation, and classification. Initially, chest X-ray images are taken from standard datasets. The lung regions are segmented using an Adaptive Recurrent Residual U-Net (AR2-U-Net), whose parameters are optimised using Enhanced Pufferfish Optimisation Algorithm (EPOA) to enhance segmentation accuracy. The segmented images are processed using "Attention-based Densenet with Long Short Term Memory (ADNet-LSTM)" for robust categorisation. Investigational results demonstrate that the proposed model achieves the highest classification accuracy of 93.92%, significantly outperforming several baseline models including ResNet with 90.77%, Inception with 89.55%, DenseNet with 89.66%, and "Long Short Term Memory (LSTM)" with 91.79%. Thus, the proposed framework offers a dependable and efficient solution for lung disease detection, supporting clinicians in early and accurate diagnosis.

**Keywords:** Lung Disease Detection and Classification; X-ray Images; Enhanced Pufferfish Optimisation Algorithm; Adaptive Recurrent Residual U-net; Attention-based Densenet with Long Short Term Memory

## Be Proud to be a Certified International Professional Engineers (IntPE) by IEI

### Who can apply for International Professional Engineers?

Basic Requirements for certification as International Professional Engineer

- ◎ Bachelor's Degree in Engineering or equivalent recognised by Statutory Authority or Government of India;
- ◎ Experience of 7 years in engineering practice. Out of 7 years of experience 2 years in a responsible position of significant engineering activity.

### How to apply for International Professional Engineers?

For details  
please visit the link:  
<https://shorturl.at/j36fo>  
or  
scan the code →



### Why become an International Professional Engineer ?

International Professional Engineer (Int.PE) Certification enables engineering professionals to advance their career aspiration in wide ranging ways.

- ◎ The International Professional Engineers, registered with IEI, may receive credit when seeking registration or licensure in the jurisdiction of another member i.e this will facilitate an engineer in mobility across member jurisdictions;
- ◎ Empowered by International Professional Engineers Agreement (IPEA), IEI maintains the Register of International Professional Engineers (IntPE) in India;
- ◎ Enhances an engineering professional's stature and gives confidence to employer/ prospective employer about competency of Certified Engineer;
- ◎ IntPE Certificate facilitates an engineer in Professional Mobility.

For any query and assistance, please send email to: [pe@ieindia.org](mailto:pe@ieindia.org) or contact (033) 40106220

# Publication by Members

Volume 10 | Issue 9 | September 2025



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## Title of Paper: **Predictive Analysis and Data-Driven Approaches for Developing Sustainable Municipal Solid Waste Management Strategies in Smart Cities: An Urban Analysis of Madurai**

Iranian Journal of Chemistry and Chemical Engineering (IJCCCE), Iranian Institute of Research and Development in Chemical Industries (IRDCI)-ACECR, 44(7)(153), July 2025, pp 1976-1993, ISSN 1021-9986

DOI: <https://doi.org/10.30492/IJCCCE.2025.2047839.6920>

Co-authors: Suresh V & Godwin Barnabas S

**Abstract:** The development of predictive models for waste handling remains the primary barrier to sustainable waste management in Madurai Smart City for accurate policy formulation. The research brought together quantitative data collected through stakeholder interviews of waste policies and quantitative methods measuring waste collection rates using population projections and machine learning algorithms. XG Gradient Boosting (a machine learning technology) generated the most precise outcomes when we evaluated our models because it forecasted organic waste with a coefficient of determination ( $R^2$ ) of 0.91 and inorganic waste with  $R^2 = 0.91$ , surpassing traditional Linear Regression models that reported organic waste prediction accuracy at  $R^2 = 0.867$  and inorganic waste prediction at  $R^2 = 0.577$ . The temporal evaluation revealed seasonal patterns. Cultural events generated waste volumes that were 30% higher than normal yearly rates. The spatial assessment results show that Zones 1 and 4 are waste generation priority areas requiring a 75% capacity expansion during the next decade. Waste production in Madurai is projected to reach 1,000 metric tons each day by 2030, representing an increase of 54% from the present levels. An assessment of the findings indicates that the processing capacity should be expanded to 350 Tons Per Day (TPD), and waste segregation policies must implement zone-based rules while optimizing delivery routes to decrease vehicle fuel usage by 15-20%. The data-based structure provides the groundwork for constructing enduring waste management facilities throughout Madurai and similar fast-developing urban territories.

**Keywords:** Machine Learning; Municipal Solid Waste; Predictive Modelling; Smart Cities; Urban Sustainability; Waste Forecasting; Waste Management



## IEI-Springer Journals



ISSN Print 2250-2149  
ISSN Electronic 2250-2157

**Series A**

CiteScore 2024  
2.8

Google Scholar: h5 Index 2023  
22



ISSN Print 2250-2106  
ISSN Electronic 2250-2114

**Series B**

CiteScore 2024  
3.9

Google Scholar: h5 Index 2023  
24



ISSN Print 2250-0545  
ISSN Electronic 2250-0553

**Series C**

CiteScore 2024  
2.7

Google Scholar: h5 Index 2023  
24



ISSN Print 2250-2122  
ISSN Electronic 2250-2130

**Series D**

CiteScore 2024  
2.5

Google Scholar: h5 Index 2023  
19



ISSN Print 2250-2483  
ISSN Electronic 2250-2491

**Series E**

CiteScore 2024  
2.8


Google Scholar: h5 Index 2023  
11



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# Announcement on the National Conventions

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 **The Institution of Engineers (India)**  
A Century of Service to the Nation

**40<sup>TH</sup> NATIONAL CONVENTION OF  
ARCHITECTURAL ENGINEERS**

**Theme : TOWARDS SUSTAINABLE CITIES -  
STRATEGIES AND TECHNOLOGIES**

**Organised by**  
 **The Institution of Engineers (India)**  
**Kochi Local Centre**  
Under the aegis of  
Architectural Engineering Division Board, IEI

**9th & 10th October 2025**

**Venue: IEI Bhavan, IE(I) Kochi Local Centre**

For details, please click here: <https://shorturl.at/PDibc>

## 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>

# Announcement on the National Conventions

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**The Institution of Engineers (India)**  
A century of Service to the Nation

## 40<sup>th</sup> National Convention of Electrical Engineers 2025

on the theme  
**Influence of AI on Modern Trends in  
Electricity Generation, Transmission,  
Distribution and Utilisation**

on  
**15-16 October 2025**

Organised by  
**The Institution of Engineers (India)  
Kerala State Centre**

Under the aegis of  
**Electrical Engineering Division Board of IEI**

Venue  
**Visvesvaraya Bhavan  
The Institution of Engineers (India)  
Kerala State Centre  
Opposite Kanakakunnu Palace  
Thiruvananthapuram**



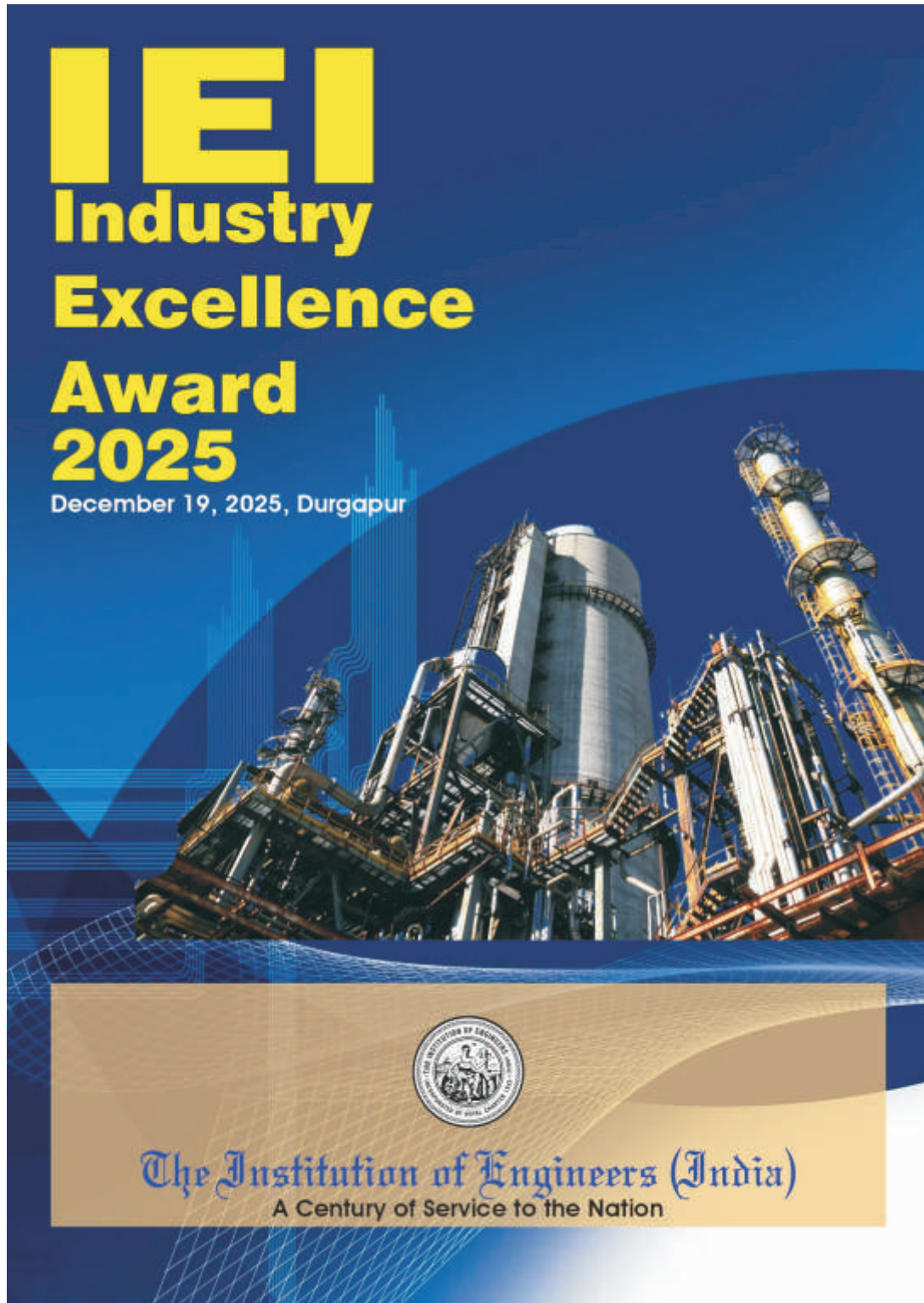
For details, please click here: <https://shorturl.at/01E03>

## 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.

# Announcement on the IEI Industry Excellence Award

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**IEI**  
**Industry**  
**Excellence**  
**Award**  
**2025**  
December 19, 2025, Durgapur

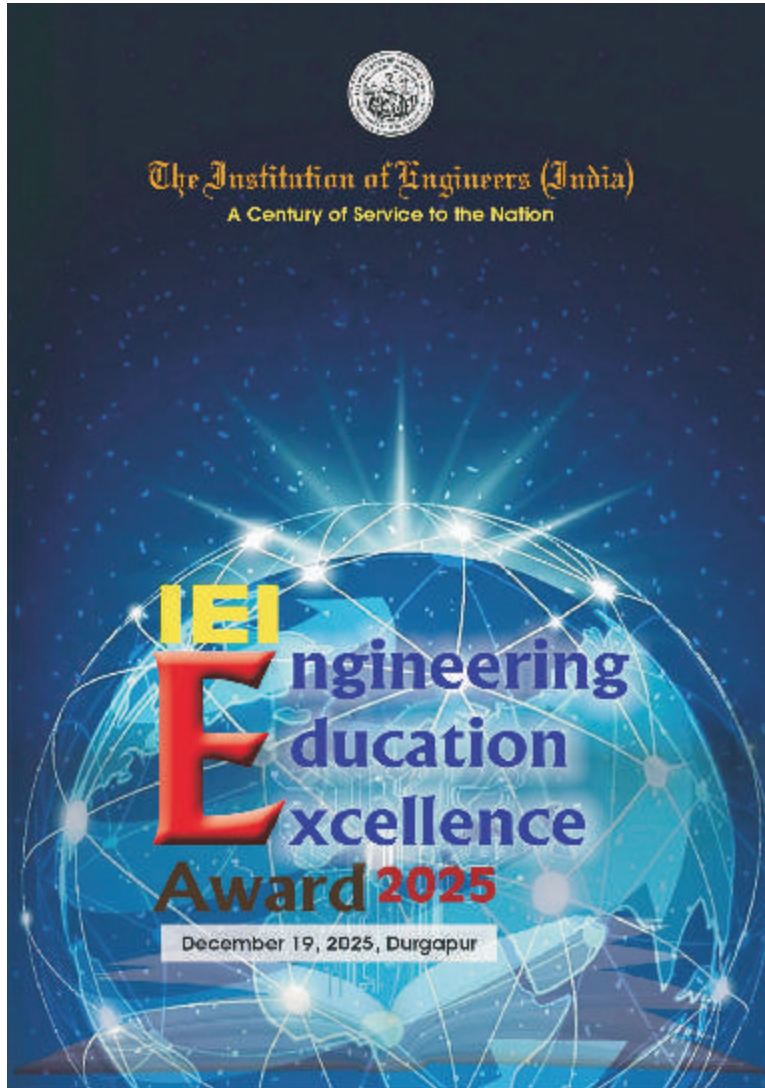


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For details, please click here: <https://shorturl.at/bDnwX>

# Announcement on the IEI Engineering Education Excellence Award

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For details, please click here: <https://shorturl.at/HWRWY>

## Know-Your-Member (KYM)

Is your mobile number & email 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 at  
<https://shorturl.at/8Q5tF>

or  
**scan the code:**



# Nota Bene

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We would like to thank our erudite members for sharing their professional achievements through the IEI Epitome and making the content more abounding and at the same time inspiring many others to share their accomplishments as well. To streamline the process and make it convenient for the member to give their inputs we would like to obtain the information in a more structured and comprehensive manner. We would request our members to send the details of their achievements as per the appended formats only.

## FORMAT FOR ACHIEVEMENT BY MEMBERS

A passport size  
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(i) Prefix (Er/Dr/Prof)	
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(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Details of Award/Achievement#	
(x) Month & Year of Achievement/ Date of Achievement	
(xi) Supporting Documents/links [which are clearly indicative of the incumbent's achievement(s)]	

*#Reporting of Award of stipend/fellowship at PG/PhD level and awards from esoteric events/communities may be avoided*

## FORMAT FOR PATENT / DESIGNS / TRADE MARKS / GEOGRAPHICAL INDICATIONS BY MEMBERS

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(ix) Tick the appropriate BOX	<input type="checkbox"/> Patent <input type="checkbox"/> Designs <input type="checkbox"/> Trade Marks <input type="checkbox"/> Geographical Indications
(x) Issuing Authority	
(xi) Serial No	
(xii) Patent No	
(xiii) Date of filing (DD/MM/YYYY)	
(xiv) Date of Grant (DD/MM/YYYY)*	
(xv) Patentee	
(xvi) Details of Patent	
(xvii) Term for which the above (ix) has been granted	

\* Copy of Certificate of the Grant of Patent

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## FORMAT FOR PUBLICATION(S) BY MEMBERS — PAPERS

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(v) Email and Mobile Number	
(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Title of Paper	
(x) Name of Journal/Proceeding/Technical Volume	
(xi) Volume No (Not required for Indian Engineering Congress)	
(xii) Issue No (Not required for Indian Engineering Congress/Annual Technical Volumes of IEI)	
(xiii) Theme (Only for Technical Volumes of IEI)	
(xiv) DOI: (Not required for Indian Engineering Congress/Annual Technical Volumes of IEI)	
(xv) ISSN	
(xvi) Date of Publication (Date-Month-Year)	
(xvii) Co-authors (if any)	
(xviii) Abstract in full	
(xix) 5/6 Keywords	
(xx) Supporting Documents/links [which are clearly indicative of the incumbent's achievement(s)]	

*Note: Publications in local seminar, conference and symposia will not be accounted*

## FORMAT FOR PUBLICATION(S) BY MEMBERS — BOOKS/ BOOK CHAPTERS

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(ii) First Name	
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(iv) Surname (Last Name)	
(v) Email and Mobile Number	
(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Title of Book	
(x) Title of Book Chapter	
(xi) Book Chapter Number	
(xii) Publisher Details	
(xiii) ISBN	
(xiv) Date of Publication (Date-Month-Year)	
(xv) Co-authors (if any)	
(xvi) About the book (100-150 words)	
(xvii) Supporting Documents (complimentary copies for IEI Headquarters)/links [which are clearly indicative of the incumbent's achievement(s)]	

*Note: Accommodate works published in journals/reputed conference proceedings/books for the last one year*

# Notification for Advertisement in IEI Epitome

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The Institution of Engineers (India) reserves a coveted privilege in being the largest multi-disciplinary professional body of engineers encompassing 15 engineering disciplines with a Corporate membership of over 2.59 lakhs maintaining a national/international presence through hundred twenty four Centres and six Overseas Chapters, Fora and Organ (Engineering Staff College of India). The Institution has been disseminating the various information through IEI Epitome and other publications.

We would like to share with you that we are now providing the facility to advertise engineering / technical products/services, information brochures, recruitment notices etc. in our official publication portal IEI Epitome (12 issues - 196000 reach online). Besides, IEI Epitome is also uploaded on our website ([www.ieindia.org](http://www.ieindia.org)) on a monthly basis and is accessible to all free of cost. Given its immense footprint in the engineering and technical diaspora spanning the globe, IEI with its distinguished heritage of a century provides you the ideal portal to connect with the National and International Engineering and Technical Community at very competitive rates. We invite you to take this unique and privileged opportunity to advertise and communicate your service and product portfolios under our prestigious banner and make us your brand emissaries in your promotional campaigns.

The booking form containing details of each publication, rates for the advertisements and the advertisement form are appended below.

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### Continuing Professional Development Programmes (CPDP) for the Month of October 2025

Sl. No.	Name of the Course	Scheduled Dates
1.	Waste to Resources in Mining	06 - 07 Oct, 25
2.	Industry 5.0 Initiatives for Sustainable development	06 - 08 Oct, 25
3.	Hydrological Observations, Data Collection and Formulation of Flood Forecasting	06 - 08 Oct, 25
4.	Energy Transition including Climate Change and Sustainable Development	07 - 09 Oct, 25
5.	Robotics and Digitalization in Manufacturing	06 - 09 Oct, 25
6.	High Speed Machines – Operational problems and Remedial Measures	07 – 09 Oct, 25
7.	Integrated Urban Planning using GIS tools-Hands on Training	07 - 10 Oct, 25
8.	Best Practices in O&M of Coal & Ash Handling Plants	07 - 10 Oct, 25
9.	RE Technologies	13 - 15 Oct, 25
10.	Procurement Rules for Goods & Services including Gem Portal & GFR 2017 Guideline	13 - 15 Oct, 25
11.	Measures to Mitigate Social Impacts of Mining Projects - Social Impact Assessment, Land Acquisition, Rehabilitation & Resettlement, Pollution Control Measures, Water and Soil Management, Controlled Blasting, Skill Development of Affected Persons	13 - 15 Oct, 25
12.	Energy Portfolio Management & Power System Operation Management	14 - 16 Oct, 25
13.	Communication and Presentation Skills	14 - 16 Oct, 25
14.	Power Cables Selection, testing, Laying and Commissioning	14 - 16 Oct, 25
15.	Cyber Security in Power Sector	15 - 17 Oct, 25
16.	Advanced Waterproofing Technologies	13 - 17 Oct, 25
17.	Network Administration: Configuring & Securing LANs and WANs	13 - 17 Oct, 25
18.	Urban Flood Management: Adaptive Strategies for Climate Resilience	15 - 17 Oct, 25
19.	Environmental Auditing: Accountability for Sustainability	17 - 19 Oct, 25
20.	Energy Portfolio Management & Power System Operation Management	22 - 24 Oct, 25
21.	ESG and BRSR Environmental Social Governance and Business Responsibility and Sustainability Reporting	22 - 24 Oct, 25
22.	Policy and Regulatory Aspects of Electricity Distribution	27 - 29 Oct, 25
23.	Hydro Dynamic Analysis using MIKE including Dam Break Analysis	27 - 29 Oct, 25
24.	RE Technologies	28 - 30 Oct, 25
25.	Maintenance and Troubleshooting of Hydraulics and Pneumatic Systems	27 - 30 Oct, 25
26.	Laboratory Management System Awareness & Internal Auditing (As per ISO/IEC 17025:2017 & NABL Requirements)	27 - 30 Oct, 25
27.	Maintenance and Lubrication of Rotating Equipment	28 - 30 Oct, 25
28.	Cyber Security in Power Sector	29 - 31 Oct, 25
29.	Implementation of National Education Policy 2020 in Higher Educational Institutions	29 - 31 Oct, 25
30.	Pumps Operation, Maintenance and Performance Monitoring for Power Plant Applications	29 - 31 Oct, 25

For detail information please click on <https://escihyd.org/>