



# The Institution of Engineers (India)

(Established 1920, Incorporated by Royal Charter 1935)

## KARNATAKA STATE CENTRE

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No. of Pages-27

**KARNATAKA STATE CENTRE NEWS REVIEW**

**Vol-1**

**JANUARY -2026**

### CHAIRMAN

**Dr. H K Ramaraju, FIE**

Vice Principal & HOD, Civil Engineering Dept. DSCE., Bengaluru.

### EDITOR & HON.SECRETARY

**Dr. K R Nataraj, FIE**

Dean & Director (R&D) DBIT, Bengaluru.

### Lecture Reports Pg. No. 2-3

1. Annual General Meeting-2025

2. MEACL on Lecture on

“Low Cost Automation”

By Sri. B. Thej Kumar, VP, Toyota India (P) Ltd. B'lore

3. Five Day Online National

Workshop Pg. No. 4-5 on

“Applied AI & ML in Electrical Systems: Learn, Analyze & Innovate” in Association with BNMIT, B'lr

4. Article by Dr. M U Aswath

Preserving the Integrity of the National Building Code: Why Dilution and Fragmentation Demand Serious Reconsideration

President & Vice President

IEI, KOLKATA

Dear Corporate Members!

We wish to inform you that the following Corporate Members have been elected as the Chairman and Honorary Secretary of Karnataka State Centre of the Institution of Engineers (India) for the sessions, 2025-2026 & 2026-2027 and have assumed office at the 91<sup>st</sup> Annual General Meeting of the Centre held on 10<sup>th</sup> Dec 2025.



**Dr. H K RAMARAJU, FIE**

**Chairman**

Environmental Engineering Division  
Vice Principal & HOD Civil Engineering

Dayananda Sagar College of Engineering, Bengaluru



**Dr. K R NATARAJ, FIE**

**Hon.Secretary**

Electronics & Telecommunication Engg. Divn  
Dean & Director (R&D),

Don Bosco Institute of Technology, Bengaluru

### **MAKARA SANKRANTI WISHES 2026**

Dear Corporate Members!

Makara Sankranti is a festival of joy, gratitude, and togetherness. Celebrated across India and even in other parts of the world, this harvest festival marks the transition of the Sun into Capricorn (Makara) and the start of longer days. It's a time to spread happiness, share festive sweets and extend heartfelt wishes to all our fellow engineers.

“May the holy festival of Sankranti bring happiness and prosperity in everyone's life”.

**With Best Wishes**

**Dr. H K Ramaraju, FIE**

Chairman, IEI KSC



**Dr. K R Nataraj, FIE**

Hon.Secretary, IEI KSC

### ***About Dr. H K Ramaraju, FIE, Chairman, IEI KSC***



Dr. Ramaraju H. K. is a distinguished Civil and Environmental Engineering professional with over three decades of academic, research, and policy-level experience in the water, sanitation, and environmental sectors. He holds a B.E. in Civil Engineering, M.E. in Environmental Engineering, and a Ph.D. in Civil–Environmental Engineering from University Visvesvaraya College of Engineering (UVCE), Bangalore University. Dr. Ramaraju has published and presented 149 research papers in national and international journals and conferences and has edited seven technical volumes. He has been invited to share his expertise at universities and institutions across Europe, Asia, Australia, Africa, and North America, reflecting his global engagement in water and environmental sustainability. He served as Water Quality and R&D Expert for the World Bank–assisted Rural Water Supply and Sanitation Project, Government of Karnataka, contributing to GIS/GPS-based water quality mapping and environmental assessments for multi-village schemes in Northern Karnataka. His research projects, funded by agencies such as AICTE, UGC, ISRO, DST, MoES, and Government of Karnataka, exceed ₹1.5 crore. Currently, he is Vice Principal and Head of Civil Engineering at Dayananda Sagar College of Engineering. He has held several expert and advisory roles with the Government of Karnataka, BBMP, VTU, and regulatory bodies, and has played a key role in NBA and NAAC accreditation processes. Dr. Ramaraju is the recipient of several prestigious awards, including the Rajiv Gandhi Parisara Prashasti, Sir M. Visvesvaraya Prathibha Puraskar, IWWA Brijnandan Sharma Award, and Nada Prabhu Kempe Gowda Award, recognizing his outstanding contributions to environmental engineering and public service.

### ***About Dr. K R Nataraj, FIE, Hon.Secretary, IEI KSC***



Dr K R Nataraj brings over three decades of distinguished experience in academia, research, and administration. He currently serves as the Director (R&D) at Don Bosco Institute of Technology, Bengaluru. He obtained his Ph.D. from MGR University, Chennai, M.E. from BMS College of Engineering, Bangalore University, and B.E. from Siddaganga Institute of Technology, Tumkur. Dr. Nataraj has previously served as Director (R&D) at Visvesvaraya Technological University, Belagavi and has held several academic and leadership roles at SJBIT and Shirdi Sai Engineering College, Bengaluru.

A prolific researcher, he has authored over 110 publications in reputed national and international journals and conferences, and successfully organized 16 National and 9 International conferences.

His research and innovation portfolio includes 64 patents (3 granted, 47 published), and he has secured over ₹8.5 crores in research grants from various State and Central Government agencies. Under his mentorship, 18 research scholars have been awarded Ph.D. degrees, and five are currently pursuing their research. In recognition of his exemplary contributions to education and research, he has been honored with the Vidya Ratan Award by The Economic for Health & Educational Growth.

He also serves on several editorial boards, academic councils, expert panels, and selection committees, including VTU, AICTE's nominee to the Administrative Council and Selection Committee of Rajkiya Engineering College, Azamgarh. His leadership and commitment have greatly influenced research culture and technological advancement through numerous seminars, workshops, and collaborative initiatives. Dr. Nataraj has actively contributed to The Institution of Engineers (India) as a Committee Member (2014-2020, 2023-2025) and currently serves as the Hon. Secretary of the IEI Karnataka State Centre (2025-2027).

## Ninety-first Annual General Meeting (AGM)

Wednesday, 10<sup>th</sup> December 2025 at 4.00 pm

Ninety-First Annual General Meeting was held on 10<sup>th</sup> Dec 2025 at IEI, KSC. Er. M. Nagaraj, Chairman extended hearty welcome to all the members present. The Chairman then invited Er. M Lakshmana, Honorary Secretary to take up items as per Agenda.



The Hon. Secretary, Er. M Lakshmana placed before the AGM the Annual Report of activities, the Audited Accounts for the year 2024-2025 ended 31.3.2025 & Minutes of Ninetieth Annual General Meeting held on 26<sup>th</sup> October 2024 which were approved by AGM.



Er. M Nagaraj informed that the following corporate members have been elected as Chairman and Hon. Secretary for the ensuing sessions, 2025-2027 at the Fourteenth Meeting of the Committee held on 12.7.2025

- **Dr. H K RAMARAJU, FIE**, Vice Principal & Head of Civil Engineering Department, Dayananda Sagar College of Engineering, Bengaluru as **Chairman**
- **Dr. K R NATARAJ, FIE**, Dean & Director (R&D), Don Bosco Institute of Technology, Bengaluru as **Hon. Secretary**.

Both Er. M Nagaraj, Chairman and Er. M Lakshmana, Hon. Secretary greeted and congratulated the new Office-bearers and invited them to take the dias.

The new Office-bearers, Dr. H K Ramaraju and Dr. K R Nataraj thanked Er. M Lakshmana and Er. M Nagaraj and the out-going Committee members for the confidence reposed in electing them as Chairman and Hon. Secretary.

## 61<sup>st</sup> Mysore Engineers' Association Commemoration Lecture (MEACL) on "LOW COST AUTOMATION" - *Karakuri - A Japanese way.*

This is an annual Commemoration Lecture to mark the merger of the erstwhile Mysore Engineers' Association with The Institution of Engineers (India) in 1964. In this connection a Lecture was arranged by Karnataka State Centre-IEI, along with the 91st Annual General Meeting of IEI KSC, on Wednesday 10th December, 2025 at IEI KSC B'loru on the Topic "LOW COST AUTOMATION - Karakuri - A Japanese Way" by Sri B. Thej Kumar, Vice President – Operations, Product Development & Quality, Toyoda Gosei South India Pvt. Ltd.



At the outset, Dr. K R Nataraj, FIE Hon.Secretary, IEIKSC delivered the Welcome Address. Dr. A M Nagaraj, Convener of the programme introduced the Speaker and gave a brief on the history of Mysore Engineers' Commemoration Lecture. Dr. H K Ramaraju, Chairman, presided. Program was also attended by Er. M Nagaraj, Immediate Past Chairman, Er. Jasmail Singh, Former Chairman, Committee Members and other Corporate members of IEI.

It was a truly enriching experience of attending the session of MEACL where, Sri B. Thej Kumar, delivered an insightful talk on Karakuri and Low-Cost Automation (LCA). The session beautifully connected with the origins of Karakuri Ningyo—traditional Japanese mechanical dolls powered by clever linkages, gravity, pulleys, springs, and levers—to today's lean manufacturing practices. It was inspiring to see how these centuries-old mechanical principles continue to shape modern industrial efficiency. Key insights from the session: Karakuri = Simple, Intelligent, Zero-Energy Automation. Instead of motors or electronics, Karakuri systems rely on fundamental mechanics—gravity, inertia, slider mechanisms, pulleys, and spring actions—to move materials with precision.



### WHY KARAKURI MATTERS FOR MODERN FACTORIES:

- Extremely cost-effective
- Easy to maintain
- Supports continuous improvement culture
- Enhances worker safety and ergonomics
- Encourages creativity at the shop-floor level

### DAILY-LIFE ANALOGIES:

Examples shown during the session—from simple pulley uses to mechanical, sliders—demonstrated that Karakuri is not just an industrial concept; it is embedded in many everyday mechanisms around us.



Origins of Karakuri Ningyo—traditional Japanese mechanical dolls powered by clever linkages, gravity, pulleys, springs, and levers—to today’s lean manufacturing practices. Old Mechanical principles continue to shape modern industrial efficiency. Key insights from the session: Karakuri = Simple, Intelligent, Zero-Energy Automation.

**Integration with the Toyota Production System (TPS):** The talk also reinforced the seamless alignment of Karakuri with TPS pillars such as: • Just-in-Time (JIT) • Jidoka (Autonomation) • TQM & TPM. All underpinned by the foundational discipline of 5S. Together, these drive cost reduction, flexible production, and waste minimization. Overall, the event offered a brilliant blend of technical depth, real-world examples, and Toyota’s philosophy of continuous improvement.

It was grateful for the opportunity to learn from a seasoned industry leader who brings both clarity and passion to the subject. It was a lively interaction among the speaker and participants from industry, academic and members of IEI.

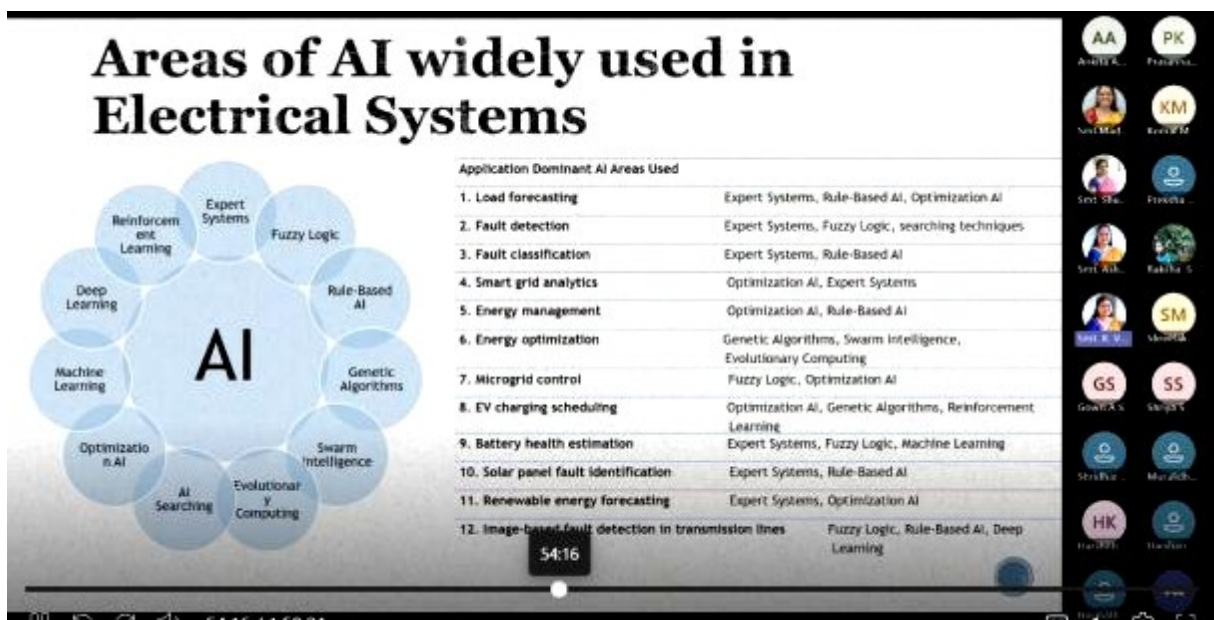


**Five Day Online National Workshop :**  
***on “Applied AI & ML in Electrical Systems: Learn, Analyze & Innovate”***  
***in Association with BNMIT, Bengaluru***

Artificial Intelligence (AI) and Machine Learning (ML) are transforming modern electrical engineering by enabling data driven decision-making, automation, and predictive Intelligence in power systems and electric mobility. With the shift toward smarter and more sustainable infrastructures, AI & ML methods are becoming crucial for applications such as predictive maintenance, fault detection, battery health estimation, energy demand forecasting, load profiling and optimal grid monitoring.

The Institution of Engineers (India), Karnataka State Centre, Bengaluru in association with Department of Electrical & Electronics Engineering, B.N.M. Institute of Technology, Bengaluru organized a Five-day Online National Workshop on “Applied AI & ML in Electrical Systems: Learn, Analyze & Innovate” during 15th – 19th December 2025 from 6:00 PM – 8:00 PM.

At the outset, Dr K R Nataraj, Hon. Secretary, IEIKSC presented welcome address. About the subject was presented by Sri Narayana Rao R Maanay, Chairman, BNMIT while Presidential Address was delivered by Dr. H K Ramaraju, Chairman, IEIKSC and Vice Principal and Head of the Department of Civil Engineering, Dayananda Sagar College of Engineering, Bengaluru. Conveners & Coordinators were, Dr. Shubha Rao K, FIE, Smt. Karanam Vasudha, MIE, Smt. Ashwini A, MIE, Smt. Raksha S.



**Objectives covered in the Workshop:**

- Fundamentals of Artificial Intelligence and Machine Learning for electrical systems
- Practical applications of AI search techniques in power system maintenance
- Apply regression and classification algorithms for forecasting and protection
- Explore clustering reinforcement learning for load profiling & EV charging optimization
- Enhance problem-solving and analytical skills through hands-on sessions

## Day 1 – 15/12/2025

Introduction to AI & its Applications in Electrical Systems:  
Resource Person: Prof. Karanam Vasudha, Assistant Professor, Dept. of EEE, BNMIT

**Types of Problems Unsupervised Learning Solves**

**2. Association Problems**

- ◆ **Goal**  
Discover **relationships and co-occurrence patterns** among variables.
- ◆ **Key Question**  
“What things tend to occur together?”
- ◆ **How it Works**
  - Finds frequent combinations of items/events
  - Generates **if-then rules**
- ◆ **Typical Output**
  - Rules like:
    - {A, B} → {C}
    - {High load, Evening} → {Voltage drop}

The session emphasized how AI techniques can effectively address large-scale, complex power system problems that are difficult to solve using conventional approaches.

## Day -2 16/12/2025

Topic: Introduction to Machine Learning & Applications in Electrical Systems, Resource Person: Dr. Shubha Rao K, Associate Professor, Dept. of EEE, BNMIT.

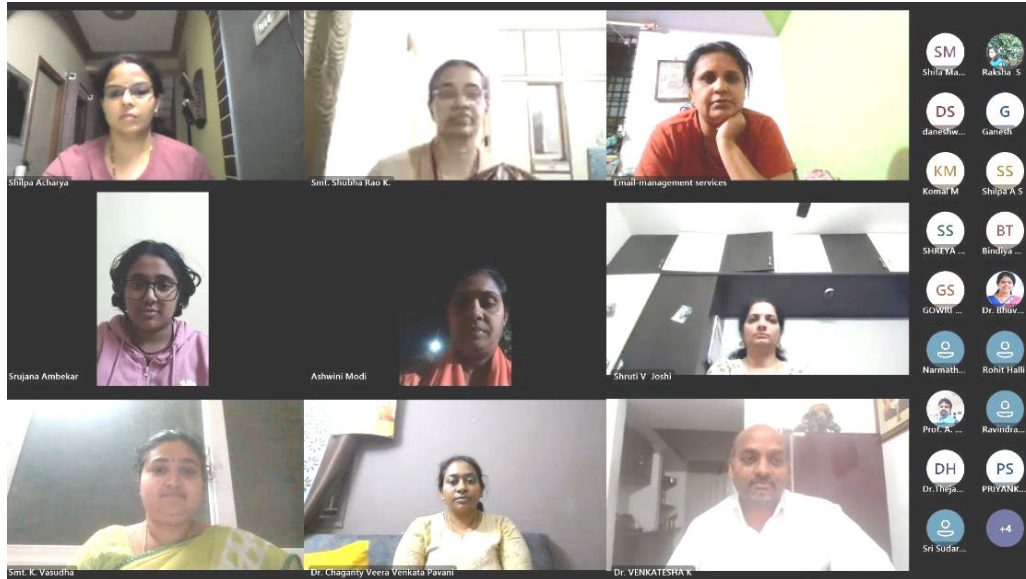
The session highlighted how machine learning can support electrical engineers in handling large volumes of sensor data, adapting to changing operating conditions, and solving complex problems such as fault detection, load forecasting, and system optimization. Overall, the session provided a clear conceptual foundation for applying machine learning techniques in electrical system.

**Day 3 – 17/12/2025** : Topic: Supervised Learning – Regression Models for Energy Forecasting  
Resource Person: Dr. Shubha Rao K

The session highlighted observe model behavior and performance. Comparative analysis of different regression models was carried out using evaluation metrics such as MSE, MAE, RMSE, and R-squared to highlight accuracy, overfitting, and generalization aspects. The session provided participants with practical insight into selecting suitable regression models for real-world electrical system applications.

**Day 4 – 18/12/2025**: Topic: Supervised Learning – Classification Techniques in Protection Systems  
Resource Person: Prof. Karanam Vasudha.

The session helped participants understand the application of classification techniques in protection and condition monitoring of electrical systems.



### Day 5 – 19/12/2025:

Topic: Unsupervised Learning & Reinforcement Learning Applications

Resource Person: Dr. Shubha Rao K.

The session covered the fundamentals of reinforcement learning, including agent, environment, state, action, and reward concepts. A practical demonstration using Q-learning was presented to illustrate decision-making and optimization in electrical applications such as EV charging and energy management.

A total of 74 participants from Academia, Industry, Research organizations, and Undergraduate and Postgraduate students across various institutions participated in the five-day online National Workshop. The diverse participant profile enabled effective technical discussions and knowledge sharing. Participants actively engaged in live sessions, hands-on demonstrations, and interactive discussions. The online mode facilitated wider outreach while ensuring meaningful instructor-participant interaction and continuous learning.



### !!HEARTY CONGRATULATIONS!!



Congratulations to **Er. M. Nagaraj**, FIE who has been elected as Vice President, Indian Building Congress, New Delhi for the year 2025-2026.

IBC was registered as a Society under the Societies Registration Act 1860, in New Delhi, on 29th March 1993 to build a living environment which is sustainable, affordable, aesthetic, eco-friendly, energy-efficient, cost competitive, technology-driven and conducive to healthy life meeting the needs of Indian population.



## Swachha Bharath Abhiyana 2026 as part of Community Service

The Institution of Engineers (India), Karnataka State Centre under the joint auspices of Department of Civil Engineering, Dayananda Sagar College of Engineering, Indian Water Works Association, Bangalore Centre and Sri Adichunchanagiri ITI College ; Government Higher Primary Boys School and Grama Panchayath, Melukote, Mandya District organised an Extensive Survey Camp under Swachha Bharath Abhiyana-2026.



The initiative brought together students, faculty, and local stakeholders with the objective of promoting cleanliness, environmental sustainability, and community well-being in rural areas.

The programme focused on key themes such as water conservation, sanitation and personal hygiene, public health awareness, environmental protection, and afforestation. Through these targeted activities, the initiative aimed to reinforce the principles of sustainable development and to inspire behavioural changes that contribute to a cleaner and healthier living environment.

A series of activities were carried out including cleanliness drives in and around public spaces, awareness campaigns on waste segregation and hygiene practices, tree plantation efforts to improve green cover and interactive sessions with community members. Students engaged with residents to highlight the long-term benefits of proper waste management, safe water usage, and a clean environment.

Overall, the activity served as a meaningful extension of academic learning, enabling students to apply theoretical knowledge to real-world social and environmental issues. The Swachha Bharat Abhiyan 2026 initiative not only supported the national mission for cleanliness but also fostered a spirit of service, teamwork, and environmental stewardship among the participants.

The programme received the divine blessings of Sri Sri Purushottamanandanatha Swamiji, General Secretary, Sri Adichunchanagiri Education Trust. Sri Galiswamy, Secretary, Dayananda Sagar Institutions, Bengaluru inaugurated the event. Dr. B G Prasad, Principal, DSCE ; Dr. Sadashiva Murthy B M, Professor & Head, Dept. of Environmental Engg, SJCE, Mysore ; Er. H S Suresh Babu, Chairman, IEI, Mysore Local Centre ; Sri Suresh S, Principal, Sri Adichunchanagiri ITI College ; Sri Jayaram Gowda, Vice President, Grama Panchayath and Sri Santanaram, Headmaster, Govt. Higher Primary Boys School, Melukote actively participated and graced the occasion as Guests.

Dr. H K Ramaraju, Chairman, The Institution of Engineers (India), Karnataka State Centre and Vice Principal, Professor & Head, Dept. of Civil Engineering, DSCE and delivered an insightful and thought-provoking Key-note Address.

## Swachha Bharath Abhiyana 2026 as part of Community Service

Dr. B. G. Prasad highlighted the responsibility of civil engineers in protecting nature and the environment. Dr. Sadashiva Murthy B. M. addressed on the importance of cleanliness, water conservation, and sustainable practices for future generations. Er. H. S. Suresh Babu spoke on the crucial role of civil engineers in environmental conservation.

In his Key-note Address, Dr. H. K. Ramaraju said, “Water is life and sanitation is the way of life” and spoke on the significance of water, air, environment, and sanitation in ensuring public health. He emphasized that proper sanitation prevents the spread of infections, protects water sources from contamination, and ensures hygienic living conditions. Together, water, air, environment, and sanitation play a crucial role in safeguarding public health, reducing illness, and improving overall quality of life for individuals and communities.

The entire event was organised under the dynamic leadership of Dr. H K Ramaraju with the active co-operation of representatives from the associating organisations, students & faculty of DSCE and Mysore Local Centre of IEI. Dr. G P Shivashankara, Prof. Sanjeev T P and Prof. Sridhar H N of DSCE extended valuable support as Programme Co-ordinators.



# Swachha Bharath Abhiyana 2026 as part of Community Service



## Preserving the Integrity of the National Building Code: Why Dilution and Fragmentation Demand Serious Reconsideration

**Dr. Aswath M U FIE, Member, IEI-KSC**

Former President – Association of Consulting Civil Engineers (India), Former Vice President – ICI  
Former Principal – Bangalore Institute of Technology (BIT)

The National Building Code (NBC) of India occupies a unique and critical position in the country's built environment ecosystem. It is not merely a compilation of technical clauses or a reference manual for professionals; it is a comprehensive safety framework that governs how buildings are planned, designed,



constructed, and occupied. Any proposal to dilute, fragment, or split the NBC into multiple independent references must therefore be examined with the highest degree of technical rigor, institutional responsibility, and societal sensitivity. The fundamental strength of the NBC lies in its integrated and holistic structure. Buildings are complex systems where structural safety, fire protection, building services, materials, construction practices, accessibility, and occupancy conditions are intrinsically interconnected. The NBC brings these

diverse yet interdependent domains under a single umbrella, ensuring coherence, consistency, and compatibility across disciplines. Fragmentation of the Code risks breaking this integration, potentially leading to gaps in interpretation, inconsistencies in application, and uneven enforcement across jurisdictions. From the standpoint of practicing professionals—civil and structural engineers, architects, planners, fire safety experts, project managers, contractors, and developers—the NBC serves as a common technical language. It enables multidisciplinary coordination and establishes a shared baseline for minimum safety and performance standards. Splitting the NBC into multiple documents or diluted references may inadvertently encourage selective compliance and misinterpretation.

More importantly, the NBC must be viewed as a public safety instrument. Its provisions directly influence how buildings perform under extreme conditions such as earthquakes, fires, cyclones, floods, and progressive collapse. India's urban history already bears painful reminders of what happens when safety provisions are compromised. Any weakening of the NBC's coherence must therefore be assessed against its real-world impact on human life. Policy reform is essential, but technical codes demand deep domain understanding. Decisions driven primarily by administrative convenience can have unintended consequences on ground-level safety. Many urban local bodies already operate with limited technical capacity; a single consolidated code offers clarity, while fragmentation increases the risk of errors and inconsistent enforcement. The NBC has evolved over decades through the collective wisdom of engineers, architects, academicians, and institutions, incorporating lessons from failures, disasters, and technological progress. Reform must therefore be strengthening in nature, preserving the integrated philosophy of the Code while enhancing clarity and compliance.

Buildings endure for decades, often outliving regulations and administrators. Decisions taken today will shape safety outcomes for generations. The National Building Code is followed—directly or indirectly—by everyone in the building industry. Its integrity is inseparable from public safety and societal well-being. In matters of building safety, caution is not resistance to progress; it is a responsibility to society.

**The Karnataka State Centre of The Institution of Engineers (India) is pleased to congratulate Er. Manish Mahendra Kothari on assuming the office of the President and extends its best wishes for a successful and impactful tenure**



**Er. Manish Mahendra Kothari, FIE**  
President  
The Institution of Engineers (India)  
Kolkata  
For the Session 2025–2026

**Er. Manish Mahendra Kothari, FIE**, a distinguished engineer, seasoned industrialist and visionary institutional leader, has been elected as the President of The Institution of Engineers (India) for the session, 2025–2026. He assumed the exalted office at the 106th Annual General Meeting of IEI held on 21st December 2025 during the 40th Indian Engineering Congress at Durgapur.

A Mechanical Engineer from Pune University, Er. Kothari also holds an Advanced Diploma in Industrial Safety. His professional credentials include being a Chartered Engineer recognised by the Government of India, a Government-approved Valuer, a Certified Safety Auditor, an Empanelled Chartered Engineer with the Customs Department providing consultancy in valuation, safety and industrial compliance, and an authorised competent person under the Factories Act.

Er. Kothari's association with The Institution of Engineers (India) spans over three decades and exemplifies consistent, progressive leadership. Beginning as a Corporate Member, he steadily advanced through various roles at the Nashik Local Centre—Committee Member, Joint Hon. Secretary, Hon. Secretary and later Chairman—where he played a pivotal role in strengthening professional activities. His contributions further extended to the IEI Council, where he served with distinction for multiple terms.

At the national level, he has served on almost all major Committees of IEI, including the Finance Committee, Membership Committee, Byelaws Committee, Standing Committee on Headquarters Management, Institutional and Industrial Excellence Awards Committee, and the Safety & Quality Forum.

Beyond IEI, Er. Kothari has made transformative contributions to India's industrial ecosystem. As Chairman of the Nasik Engineering Cluster, a flagship Government of India project under DPIIT, he enabled numerous startups and MSMEs to secure over ₹50 crore in funding and adopt advanced manufacturing technologies. He has also served as President of the Nasik Industries Manufacturers Association, representing more than 7000 MSME and large-scale industrial units, and as Director of the Maharashtra Chamber of Commerce, Industries and Agriculture. His presence on the Governing Councils of several engineering institutions reflects his commitment to aligning academic curricula with industry needs and fostering innovation-driven education.

**Karnataka State Centre, IEI congratulates  
Er. Lochan Kumar Adhikari, FIE**

Vice President of The Institution of Engineers (India). Kolkata



Er. Lochan Kumar Adhikari, FIE, Vice President, IEI & Chairman, Sikkim State Centre felicitated by Dr. H K Ramaraju, Chairman, Dr. K R Nataraj, Hon. Secretary and Er. M Nagaraj, Immediate Past Chairman, IEI KSC during his visit to Karnataka State Centre, Bengaluru on 16.01.2026.

***About Er. Lochan Kumar Adhikari, FIE - Vice President, IEI***

Er. Lochan Kumar Adhikari is an Academician and Administrator. He holds B.E. (Mechanical Engineering) and M. Tech (Mechatronics) with distinction and is a Fellow of IE(I), Chartered Engineer, Certified Workplace Assessor (Australia), and Level 5 Certified in Leadership & Management (CMI, London). With over 27 years of experience in teaching, training, and development, he is also a recipient of the prestigious Nation Builder Award from IE(I).

A passionate educator and mentor, he has conducted more than 1000 counselling and motivational programs across Sikkim, West Bengal, Chandigarh, Tripura, Nepal, and Bhutan. His academic and leadership journey includes advanced training at RMIT Australia, IIM Bangalore, IIM Ahmedabad, IIT Kharagpur and other premier national and international institutions.

This landmark achievement not only recognizes Shri Lochan Kumar Adhikari's lifelong contribution to engineering education and leadership but also places Sikkim firmly on the national engineering map.

**!!HEARTY CONGRATULATIONS!!**

The Institution of Engineers (India), Karnataka State Centre congratulates all the Chairmen of Local Centres, who have been elected for the Session 2025-2027



**Er. Chandrashekhar Kakkeri, FIE**  
Chairman  
Kalaburagi Local Centre, IEI



**Dr. Mohan Kumar, FIE**  
Chairman  
Kolar Local Centre, IEI



**Er. Channabasava B Hiremath, FIE**  
Chairman  
Belagavi Local Centre, IEI



**Er. H S Suresh Babu, FIE**  
Chairman  
Mysuru Local Centre, IEI



**Dr. Basavaraj S Anami, FIE**  
Chairman  
Dharawad Local Centre, IEI



**Er. K. Madhusudhana, FIE**  
Chairman  
Munirabad Local Centre, IEI



**Dr. Chinnagiri Gowda H C, FIE**  
Chairman  
Mangaluru Local Centre, IEI



**Dr. K. C Devendrappa, MIE**  
Chairman  
Davangere Local Centre, IEI



**Dr. R Suresh, FIE**  
Chairman  
Tumakuru Local Centre, IEI

**!!HEARTY CONGRATULATIONS!!**

The Institution of Engineers (India), Karnataka State Centre congratulates the following Council members of IEIKSC who have been Nominated to various Committees and Division Boards of HQr's IEI, Kolkata for the Session 2025-26

**LEGAL AFFAIRS COMMITTEE (LAC)**

1. Er. M. NAGRAJ, FIE – Member
2. Er. H S SURESH BABU, FIE- Member

**BOARD OF STUDIES**

Dr. H K RAMARAJU, FIE- CHAIRMAN

**ALL INDIA TECHNICIANS' COMMITTEE (AITC)**  
**RESEARCH AND DEVELOPMENT COMMITTEE (RDC)**

1. Dr. H K RAMARAJU, FIE- Member
2. PROF (DR) Ms SHOBHA B N, FIE- Member

**FINANCE COMMITTEE (FC)**

1. Dr ENTI RANGA REDDY, FIE- Member

**CENTRE'S COORDINATION COMMITTEE (CCC)**

1. Dr. H K RAMARAJU, FIE- Member
2. Er. H S SURESH BABU, FIE- Member

**INFORMATION TECHNOLOGY COMMITTEE (ITC)**

Dr. CHANDRASHEKARA S N, FIE – CHAIRMAN

**IEI INDUSTRY EXCELLENCE/ENGINEERING EDUCATION EXCELLENCE AWARD COMMITTEE**

1. Dr. ENTI RANGA REDDY, FIE- CHAIRMAN



**AEROSPACE ENGINEERING DIVISION BOARD**

1. Dr. P V VENKITAKRISHNAN-, FIE – CHAIRMAN

**AGRICULTURAL ENGINEERING DIVISION BOARD**

1. Prof. (Dr.) NEMICHANDRAPPA M, FIE – CHAIRMAN

**CIVIL ENGINEERING BOARD DIVISION BOARD**

- 1 Er. M NAGARAJ, FIE- Member
2. Er. H S SURESH BABU, FIE- Member (Ex- Officio)

**COMPUTER ENGINEERING DIVISION BOARD**

1. Prof.(Dr.) CHANDRASHEKARA S N, FIE – CHAIRMAN

**ELECTRICAL ENGINEERING DIVISION BOARD**

1. Prof .T J RAMAMURTHY, FIE -Member

**ELECTRONICS ENGINEERING DIVISION BOARD**

1. Prof. (Dr) Ms SHOBHA B N, FIE -Member

**ENVIRONMENTAL ENGINEERING DIVISION BOARD**

1. Dr. H K RAMARAJU, FIE - Member

**MECHANICAL ENGINEERING DIVISION BOARD**

1. Dr. ENTI RANGA REDDY, FIE- Member

**Following are some of the programs organized by the Local Centres during December 2025 and January 2026**

**BELAGAVI LOCAL CENTRE**

1. **'3-Minute Project' Presentation Competition** on 8<sup>th</sup> December 2025 in collaboration with Department of Electrical & Electronics Engineering, Jain College of Engineering, Belagavi.
2. **Energy Conservation Day** on 8<sup>th</sup> December 2025 on the theme “Energy Conservation for Sustainable Development”. Talk by Dr. Basanagouda Ronad, Associate Professor, Executive Committee Member-IEEE NKSS, Dept. of Electrical & Electronics Engineering, Basaveshwara Engineering College, Bagalkote. Er Chennabasava B Hiremath, Chairman presided.
3. **Talk on “Ground Improvement Techniques”** by Dr. Uma G. Hullur, Assistant Professor, Department of Civil Engineering, KLS Gogte Institute of Technology, Belagavi on 29<sup>th</sup> December 2025. Er Chennabasava B Hiremath, Chairman presided.

**DHARWAD LOCAL CENTRE**

1. **Talk on “Inclusive Studies of Imbibing SDGs in OBE Frame Work of Engineering Curriculum”** by Dr. P P Revankar, Professor, School of Mechanical Engineering, KLE Tech. University, Hubballi on 2.12.2025.
2. **Talk on “Engineering Opportunities in North Karnataka: Sustainable Infrastructure, Emerging Technologies and the Road to Viksit Bharat 2047”** by Dr. S B Hegde, Prof. & PG Co-ordinator, Jain College of Engineering & Technology, Hubballi on 9.12.2025.
3. **Energy Conservation Day** on 16.12.2025. Prof. Tejrjaj M. Aminabhavi, Director of Research Centre for Energy & Environment, School of Advanced Sciences, KLE Tech. University, Hubballi graced the occasion as Chief Guest.
4. **Talk on “The Future of AI and Its Impact on Society”** by Dr. Shreedhar A. Joshi, Professor & Head, E & C Department, SDMCET, Dharwad on 23.12.2025.
5. **Talk on “A Civil Engineer's Observations on Iconometry”** by Prof. Vishwanath Bhat, Faculty, Civil Engineering Department, SDMCET, Dharwad on 30.12.2025.
6. **Talk on “Work Life Balance”** by Prof M R Shollapur, Dean, Faculty of Commerce and Management, KLE Technological University, Hubballi on 6.1.2026.

**KALABURAGI LOCAL CENTRE**

**Energy Conservation Day** on 22.12.2025 on the theme “Energy Conservation for Sustainable Development”. Talk by Dr. Sangamesh G Sakri, Professor, Dept. of Electrical & Electronics, PDA College of Engineering, Kalaburagi. Smt. Jyoti graced the occasion as Chief Guest. Er. Kakkeri Chandrashekhar, Chairman, presided

**MANGALURU LOCAL CENTRE**

1. Talk on “**Toward Mixed Reality As A Substitute For In-Person Interaction**” by Er. Dr. Akshith Ullal, Research Engineer, University of Florida, USA on 23<sup>rd</sup> December 2025. Dr. Chinnagiri Gowda H C, Chairman, presided.

2. Talk on “**Biohack your Health : Mastering Wellness through Genomics**” by Er. Gaurab Banerjee, Chief Executive & Director, Moisis Pvt Ltd on 13<sup>th</sup> January 2026.

**MYSORE LOCAL CENTRE**

1. Talk on “**The Impact of Electric Vehicle Charging Station on the Power Grid**” by Dr. Surekha Manoj, Professor and HoD, Department of EEE, Sheshadripuram Institute of Technology, Mysore on 6<sup>th</sup> December 2025. Er. H S Suresh Babu, Chairman, presided.

2. Talk on “**High-rise Construction in Dubai - A Quality Perspective**” by Sri Ravi Chokkalingam, Consultant, MNC, Dubai/Founder, Service to Society-S2S Trust on 5<sup>th</sup> January 2026.

**TUMAKURU LOCAL CENTRE**

Talk on “**Smart Engineering for a Better World & Water Scenario of the State of Karnataka**” by Sri K. Jai Prakash, Technical Advisor to Deputy Chief Minister, Govt. of Karnataka on 2<sup>nd</sup> December 2025. Dr. R Suresh, Chairman, presided.



# The Institution of Engineers (India)

(Established 1920, Incorporated by Royal Charter 1938)

## Karnataka State Centre

Dr. B. R. Ambedkar Veedhi, opp. Indian Express Building, Vasanth Nagar, Bengaluru, Karnataka - 560001; Tel: +91 80 22264698; mob: +918105625725; Fax: +91 80 22256191  
E - Mail: ieiksc.ksc@gmail.com; Website : www.ieiksc.org.in

## STUDENT RESEARCH PROJECT PROGRAMME

### (SRPP – First SERIES: 2025 – 2026)

Institution of Engineers, Karnataka State Centre invites project proposals from the final year students of B.E., B. Arch., M.Tech., M.Sc., M.Tech./M.Sc. (Agriculture), MBA & MCA courses under the First series of Student Research Project Programme (SRPP) from Karnataka State only.

### Important Dates

Submission of proposals:  
09<sup>th</sup> to 21<sup>st</sup> February 2026

Announcement of selected projects:  
5<sup>th</sup> March 2026

Midterm evaluation (Online Mode):  
28<sup>th</sup> March 2026

Announcement of selected projects for the final presentation (Offline Mode at IEI, KSC):  
10<sup>th</sup> April 2026

Synopsis & Final Project Report submission:  
24<sup>th</sup> April 2026

State-Level Final Presentation:  
09<sup>th</sup> May 2026



Dr. H K Ramaraju, I.E.  
Chairman, IEI, KSC



Dr. K R Nataraj, I.E.  
Hon. Secretary, IEI, KSC

### How to apply

- The research project proposal should be prepared as per the SRPP proposal format available on the IEI website.
- Each institution can submit any number of proposals from each branch.
- Each project team must consist of 4 students, and each project team shall submit only one proposal as per the format. Any other project proposal will not be considered.
- The team leader must fill out the registration Google Form Link provided.
- Processing Fee: Rs. 1000/- (Inclusive of GST) to be paid through NEFT transfer / UPI.
- The processing fee is non-refundable / non-transferable.
- The proposal is accepted only through the provided Google Form link with the following attachments. (Students/ Institutions must send the hardcopy of the project proposals submitted to IEI Headquarters, Bengaluru):
  - 1.Pdf of research project proposal with attestation from the project guide/head of the department and institution.
  - 2.Scanned copy of the declaration and Endorsement from the head of the institution
  - 3.Copy of processing fee details
- The last date for submission of the project proposal will not be extended and is as per the schedule.
- The format can be downloaded from the registration link provided.

### The submitted projects shall mandatorily be from one of the broad indicative themes/areas as below:

- Technologies for Rural Livelihood improvement (focusing areas under energy, water, sanitation, health, education, digital literacy, assistive aid) Alternative design and product innovation.
- Structural Engineering, Geotechnical Engineering, Geomatics, Construction Technology and Management.
- Water and Environment Engineering, Transportation Engineering, Industrial and System Engineering
- Energy Engineering, Energy for sustainable Development, Waste Management.
- Data Science, Cyber Security, Computing, Pattern Recognition and Image Processing, Signal Processing.
- Big Data, integrating Internet of things, Artificial Intelligence, Data Engineering, Robotics (Agriculture, health, education, digital literacy, assistive aid)
- Networking and Communication Engineering, Embedded Systems, VLSI Design, Robotics
- Power System Engineering, Electric Vehicles, Smart Grid Technologies and Micro-grids
- Materials and Design Engineering, Thermal and Fluid Engineering, Manufacturing Processes and Analysis
- Control and Automation, Biomedical Engineering, Sensors and Measurement Techniques
- Rural Engineering and Technical support, Smart cities and infrastructure development.
- Biological/Medical Science, Physical Science, Chemical Science, Agriculture Science, Biotechnology.
- Healthcare management, Information Technology, Resources and Environmental Management.

### Evaluation process

- The submitted projects will be evaluated by a team of experts and shortlisted.
- Sponsored projects will undergo a midterm evaluation (online mode).
- Synopsis and final report submission through Google Form.
- Selected projects will be exhibited at the State-Level Final Presentation of Selected Projects.

### Bank details

Name of the Account Holder: The Institution of Engineers (India)  
Bank Name: State Bank of India  
Branch Name: Dr. B.R. Ambedkar Veedhi Branch  
Account Type: Savings Bank  
Account Number: 54044624289  
IFSC Code No. of the Bank: SBIN0040022

### Registration link

<https://forms.gle/kNyEwVGvjXwJxNHX7>

### Contact details

Mr. Manjunatha. S, IEI  
9945425725

**IEI - MEMBERSHIP CORNER**

**LATEST MEMBERSHIP FEES FOR AMIE, MIE, FIE & CHARTERED ENGINEER CERTIFICATE**



The Institution of Engineers (India) offers several membership benefits:

- Chartered Engineer Certificate:** Entitlement for Chartered Engineer Certificate. In general, the Chartered Engineer certificate issued by IEI plays a mark of recognition and acceptance of one's techno-academic qualification and professional attainment as applicable.
- Escalate Career as Chartered Engineer [CEng(I)]:** The Royal Charter of Incorporation granted to The Institution of Engineers (India) [IEI] on 9 September 1935 endowed the Corporate Members of the Institution with the right to use the title 'Chartered Engineer (India)' after their names, implying that they are qualified engineers deemed worthy to hold a Charter.
- Benefits of Chartered Engineer Certificate:**
  - To be empanelled as Valuer, Loss Assessor in various financial institutions like Banks, Insurance Companies etc.
  - To be empanelled as Chartered Engineer in the Original Side of High Courts, Central Excise and Customs and other similar government concerns.
  - To act as Inspecting and Certifying Engineers under statutory enactments and arbitration proceedings.
  - To get contracts of civil works from Municipal Corporations and similar government bodies.
  - To have better opportunities of being employed and/or promoted in multinational organisations.
  - To practice as a self employed consultant in India and abroad.
- Membership Benefits:**
  - Free e-access to the Five Series IEI-SPRINGER Journals, covering 15 Engineering disciplines which are all SCOPUS Indexed.
  - Free e-access to other IEI publications such as IEI NEWS, IEI Eptome etc.
  - Access to huge number of books and other resources (approx 3 lakhs) at nearly 100 IEI libraries located all over the country.
  - Opportunity to participate in various training programmes and technical events e.g. Seminars, Symposia, Conventions, Workshops, Congress etc. organized by various IEI Centres at State, National and International levels for free or at a concessional rate.
  - Opportunity to enjoy stay at IEI Guest Houses spread over 50 major locations in the Country at nominal maintenance charges. List of the Guest Houses are available at [www.ieindia.org](http://www.ieindia.org).

For details, please visit Website : [www.ieindia.org](http://www.ieindia.org) Email: [membership@ieindia.org](mailto:membership@ieindia.org)

Sl.No	Membership	Age	Qualification	Experience	One Time Fee
1	AMIE	21	BE/B.Tech	-	Rs. 6,136/-
2	MIE	30	BE/B.Tech	8Years	Rs. 8,496/-
3	FIE	40	BE/B.Tech	25 Years	Rs. 20,296/-
			BE/B.Tech	20 Yrs + MIE 2 Yrs	
			ME/M.Tech	23 Yrs	
			ME/M.Tech	18 Yrs + MIE 2 Yrs	
			Ph.D (Engg)	20 years	
			Ph.D (Engg)	15 Yrs + MIE 2 Yrs	
4	CE				Rs.29, 500/-

# EVENT SPACE AVAILABLE AT IEI KSC, B'lore



## 58th Engineers' Day Celebration

Chief Guest :  
**Sri. D K Shivakumar**  
Hon'ble Deputy Chief Minister of Karnataka

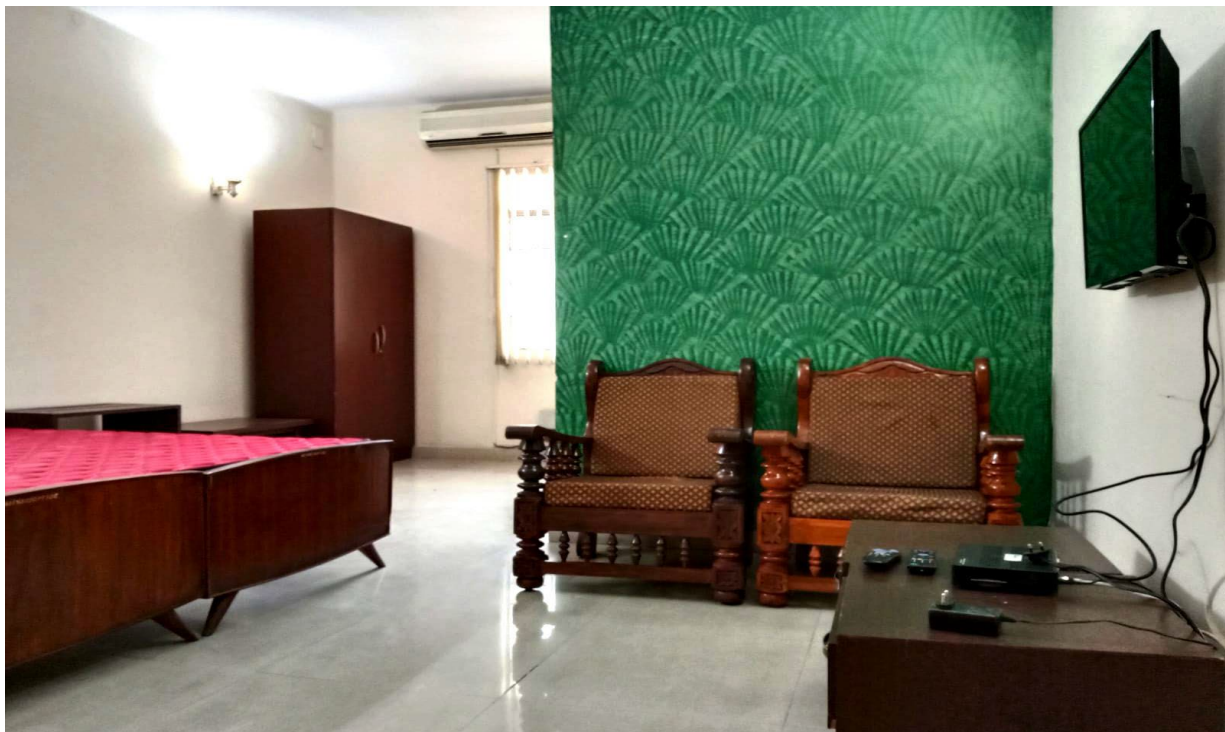
Guests of Honor :  
**Sri. Rizwan Arshad**  
MLA, Shivajinagar Constituency

**Er. V B Singh, FIE**  
President-IEI





## Guest Rooms





**Lecture Hall**





**Board Room**





REDMI NOTE 8 PRO  
AI QUAD CAMERA

# Sir M V Auditorium



EVENT SPACE AVAILABLE AT IEI KSC, B'lore



58th Engineers' Day Celebration

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President-IEI

