



BULLETIN



Dr. V. KARTHIKEYAN, FIE.
Chairman

Er.D.GOKUL, MIE
Honorary Secretary

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From the Chairman's Desk.....



Dear Fellow Engineers,

It gives me immense pleasure to connect with you all once again through this edition of our news bulletin.

As I reflect upon my tenure, I am filled with deep gratitude and pride for the remarkable journey we have undertaken together in advancing the vision and mission of The Institution of Engineers (India), Tamil Nadu State Centre.

At the outset, I would like to express my heartfelt thanks to our Immediate Past President Dr.G.Ranganath, President Er.V.B.Singh, all Council and Committee Members, Corporate Members, Chairmen and Honorary Secretaries of Local Centres, and all office bearers for their continuous cooperation, encouragement, and unwavering support. Your commitment has been instrumental in enabling the State Centre to achieve numerous milestones during the past two sessions.

With immense pride, I wish to highlight some of the key accomplishments that mark this productive period. The Tamil Nadu State Centre successfully organized over 55 technical activities, encompassing 16 Statutory Day celebrations, 11 All India Seminars, 4 One-Day Seminars, 3 National Conventions, 11 Online Guest Lecture Meetings, Founders' Day, and

several other technical lectures and professional interactions.

During my tenure, I had the privilege of hosting and coordinating several prestigious events that were graced by eminent dignitaries and distinguished professionals, whose presence added great value and prestige to our activities. Notable among them were Thiru Siva. V. Meyyanathan, Honourable Minister for Backward Classes Welfare; Dr. Palanivel Thiaga Rajan, Honourable Minister for Information Technology and Digital Services; and Thiru S. Regupathy, Honourable Minister for Law and Natural Resources.

It was also a great honour to organize a felicitation function for Dr.V.Narayanan, Chairman, ISRO, during this period, a moment of immense pride for all engineers in the State. These occasions not only showcased the strength and reputation of our Institution but also reaffirmed our commitment to fostering excellence and innovation in engineering practice.

I take this opportunity to extend my sincere gratitude to all our members, volunteers, and well-wishers who have contributed their time, knowledge, and energy in making every initiative a success. Your active participation and steadfast support have been the driving force behind all our achievements.

I am very happy to extend a warm welcome to the newly elected Office Bearers of the IE(I), Tamil Nadu State Centre Committee for the sessions 2025–2027.

I also request all our esteemed Corporate Members to kindly complete the “Know Your Membership (KYM)” form to help us maintain an accurate and up-to-date member database. Your cooperation is

essential to ensure smooth communication and uninterrupted access to member benefits. Once completed, the form may be submitted in person at the IE(I) Tamil Nadu State Centre office or emailed to ieitamilnadu@gmail.com or tnsc@ieindia.org.

Together, let us continue to uphold the spirit of engineering excellence and innovation that propels our profession toward greater heights.

With warm regards,

Dr.V.Karthikeyan, FIE.,
Chairman, IE(I) TNSC
Chairman, ENDB IE(I)

From the Hon. Secretary's Desk.....



Dear Corporate Members,

Greetings from the Institution of Engineers (India),
Tamil Nadu State Centre !

It gives me great pleasure to connect with you all through this News Bulletin. Over the last 2 sessions, our Centre has continued to uphold the proud legacy of engineering excellence through a series of technical activities, seminars, and conventions that have enriched our members' technical knowledge and collaborative spirit.

We have successfully organized several technical events across diverse engineering disciplines, providing valuable platforms for knowledge sharing, innovation, and networking. I take this opportunity to express my sincere thanks to all our Committee Members, Council Members, Corporate Members and all local centres Chairmen and Honorary Secretaries whose dedicated efforts have contributed to the success of the activities.

I request all members to actively participate in the upcoming events and support for the growth of IE(I). Your involvement plays a vital role in driving our collective mission of promoting professional development and serving the engineering community.

All our meetings and events are available on the IEI Tamil Nadu State Centre YouTube Channel. I encourage all members to visit and subscribe to the channel to stay updated on our technical activities. Members are also requested to visit our website at www.ieitnsc.org for more information and updates.

Thank you all for your continued support and engagement. Together, let us strive towards achieving new milestones in our journey of engineering excellence.

Er D GOKUL, MIE.,
Honorary Secretary,
IE(I) TNSC

**All India Workshop on
“ AIoT Powered Smart Cities : Enhancing Connectivity and Sustainability”
7 & 8 August 2025**

The Institution of Engineers (India) Tamil Nadu State Centre organized the “All India Workshop on “AIoT Powered Smart Cities: Enhancing Connectivity and Sustainability” under the aegis of Electronics and Communication Engineering Division in association with Department of ECE, Vel Tech Ranagarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Tamil Nadu on 7th & 8th August 2025 .

The event commenced with the auspicious Tamizhthaai Vazhthu, followed by the lighting of the Kuthu Vilakku by dignitaries. **Dr. Priyanka Gokil**, Associate Professor, IIITDM Kancheepuram was the Chief Guest and presided over the inauguration of the workshop.



Dr.R.S.Valarmathi, Professor and Head, Dept. of ECE, & Dean SoEC, VelTech delivered the welcome address. Souvenir was released by the dignitaries. Dignitaries were honoured with shawl and bouquet.

Dr. Priyanka Gokil, Associate Professor, IIITDM Kancheepuram gave an inspiring thought

- Leveraging AIoT technologies for seamless urban connectivity .
- Integrating IoT-driven data eco systems with AI-based analytics to optimize city services.
- Sustainable solutions in energy management, smart transportation , healthcare, and infrastructure.
- The role of AIoT in creating resilient, citizen-centric smart cities that align with global sustainability goals.



The workshop concluded with a Vote of Thanks delivered by **Er D Gokul**, Honorary Secretary, IE(I) TNSC.

After the Inaugural Session, **Dr.Priyanka Gokil**, Associate Professor, IIITDM Kancheepuram delivered the keynote address on the topic “AI for Sustainable Smart Cities – A focus on Eye Health using Fund us Images”. In the new concept of sustainable smart cities, healthcare is not just a supporting pillar; it is a core part of the city. Biomedical engineering is very important for developing health-resilient, sustainable urban ecosystems since it has come up with new ways to make medical imaging and diagnostic gadgets. One of the new areas of focus is ophthalmic health, especially the early diagnosis of eye ailments using retinal fund us imaging. These images are a potent, non-invasive way to look at not only vision-related problems but also systemic diseases like diabetes and high blood pressure.



Dr. B. Ezhilavan, Founder and Director, VEI Technologies, Chennai delivered on the theme “AIoT-Powered Smart Cities: Enhancing Connectivity & Sustainability”. AIoT (Artificial Intelligence + Internet of Things) merges intelligent decision-making with real-time data collection. In smart cities, this fusion plays a vital role in transforming urban life. Environmental sensors track pollution and water quality, triggering alerts and responses as needed. AIoT powers electric vehicle (EV) infrastructure, smart public transit systems, and traffic decongestion strategies. By leveraging AIoT, smart cities become more intelligent, responsive, and sustainable, ensuring better quality of life for citizens while preserving natural resources.

After the invited talk students from various institutions presented the paper on the sub themes.

On day 2 , 8th August 2025 the first session was delivered by **Dr. P. Shobana Pritha**, Technical Manager& Human Resources, VEI Technologies, Chennai, delivered on the theme “Enabling Smart Cities for Sustainable and Eco-Friendly Smart World”. She narrated the need for AIoT (Artificial Intelligence of Things) is revolutionizing smart cities by enhancing connectivity and sustainability through the

integration of AI and IoT devices. This synergy enables real-time data analysis, intelligent decision making, and optimized resource management, ultimately leading to more efficient and sustainable urban environments. By connecting devices and systems, IoT enables real time monitoring and control of energy consumption, optimizing energy usage, and reducing waste. An IoT-enabled agritech system can reduce over-use of fertilizer or pave the way for greener farming, for instance, while adding smart building capabilities.

The workshop was provided participants with practical exposure to cutting-edge tools and technologies that drive the concept of smart urban ecosystems. Participants engaged in interactive demonstrations that's how cased the integration of Artificial Intelligence with the Internet of Things for real-time data collection, processing, and decision-making. Through guided exercises, they explored applications such as intelligent energy management, smart transportation systems, and sensor-enabled environmental monitoring, gaining a clear understanding of how AIoT can be effectively applied to solve real-world urban challenges.

Sessions were handled by

- Mr.H.Sithick, Developer and Trainer, VEL Technologies, Chennai.

- Dr.A.Selwin Mich Priyadharson, Professor , Department of ECE, VelTech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.

- Ms.L.V.Sahana, Developer and Trainer, VEL Technologies, Chennai.

In addition to technical demonstrations, the hands-on experience allowed participants to design and simulate simple AIoT-enabled models, reinforcing theoretical concepts with practical application. The sessions emphasized sustainable solutions, encouraging participants to innovate in areas like reducing energy consumption, improving connectivity, and enhancing citizen services. This experiential approach not only strengthened the technical competencies of attendees but also inspired them to contribute towards building resilient, sustainable, and technologically advanced smart cities.

The valedictory session was held on 08th August 2025 at IoT Laboratory, Vel Tech. Dr. A. Selwin Mich Priyadharson, Professor, Dept. of ECE, Vel Tech presented the summary report of the seminar. Certificates were distributed to the participants and presenters. The programme concluded with vote of thanks and National Anthem. Students from various institutions participated in the workshop.

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