



BULLETIN



Prof.Dr.D.ELANGO,FIE
Chairman

Dr.J.BALAMURUGAN,FIE
Honorary Secretary

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From the Chairman's Desk.....



Dear Fellow Engineers,

Warm greetings to all members of The Institution of Engineers (India), Tamil Nadu State Centre.

The Institution of Engineers (India), Tamil Nadu State Centre organized a Guest Lecture on "Cyber Security Awareness: Mobile Security" on 14th May 2026 through the online Zoom platform. Dr. V. Balakumar, SDE (MPLS Security), BSNL, delivered the lecture and provided valuable insights into mobile security challenges, cyber threats, and best practices for safeguarding personal and professional digital information.

I am delighted to share that the Institution of Engineers (India), Tamil Nadu State Centre successfully organized an All India Workshop on "Smart Irrigation: Leveraging Drone Technology for Precision Water Management" on 19th and 20th May 2026 in association with SRM Valliammai Engineering College. The workshop was inaugurated by Dr. V. Ramji, Associate Professor, Centre for Water Resources, Anna University, Chennai. He highlighted recent advancements in smart irrigation systems, the

role of drone technology in precision water management, and the growing importance of sustainable agricultural practices for future development.

The Institution of Engineers (India), Tamil Nadu State Centre celebrated World Telecommunication and Information Society Day on the theme "Digital Lifelines: Strengthening Resilience in a Connected World" on 23rd May 2026 at the IE(I) TNSC Auditorium, Chennai. Dr. S. Joseph Winston, Scientific Officer-H and Head, Remote Handling & Irradiation Experiments Division (RHIED), FRTG, IGCAR, graced the occasion as the Chief Guest. In his address, he emphasized the critical role of digital technologies in enhancing public safety, disaster preparedness, communication systems, and resilience in an increasingly connected world.

The Tamil Nadu State Centre also observed World Environment Day on the theme "A Global Call for Climate Action" on 13th June 2026 at the IE(I) TNSC Auditorium, Chennai. To commemorate the occasion, saplings were planted within the State Centre premises by the dignitaries. Er. Rajesh Kumar Das, FIE, IAS, was the Chief Guest and highlighted the increasing frequency of extreme weather events such as heatwaves, floods, droughts, forest fires, and rising sea levels. He stressed that climate change is no longer a future concern but a present reality that demands immediate and collective action.

I would also like to request all Corporate Members to complete the Know Your Membership (KYM) form to enable us to maintain an accurate and updated membership database. Your cooperation is essential for ensuring seamless communication and the effective delivery of member services and benefits. The completed form may be submitted in person at the IE(I) Tamil Nadu State Centre office or sent by email to ieitamilnadu@gmail.com or tnsc@ieindia.org.

Let us continue to work together to strengthen our professional community, uphold the values of engineering excellence, and contribute meaningfully to the progress and development of our nation.

With warm regards,

Prof.Dr.D.ELANGO, FIE.,
Chairman, IE(I) TNSC

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



Dear Engineers and Esteemed Colleagues,

IEI Tamil Nadu Engineering Connect 2047

Connecting more than 500 Engineering Colleges – Empowering 100,000+ Future Engineers

Tamil Nadu has long been recognized as the Engineering Capital of India. With more than 500 affiliated engineering colleges, over six lakh engineering students, nearly seventy thousand faculty members, and a vibrant industrial ecosystem, our State possesses one of the largest concentrations of engineering talent in the nation. (Values approximated according to the statistics).

As India advances towards becoming a developed nation, the role of engineers will be more critical than ever before. Infrastructure, energy, manufacturing, digital transformation, sustainability, transportation, healthcare technologies, and advanced research will all depend upon a highly competent and professionally connected engineering workforce.

The Institution of Engineers (India), Tamil Nadu State Centre, envisions a transformative mission—**"IEI Tamil Nadu Engineering Connect 2047."** This initiative seeks to build a seamless bridge between academia, industry, innovation, and society by connecting every engineering institution in Tamil Nadu through the professional platform of IEI.

Today, despite the vast engineering population, less than twenty percent of students actively participate in professional institutions. This represents not a challenge alone, but a tremendous opportunity. By strengthening Student Chapters, Faculty Engagement, Young Engineers Forums, Innovation Cells, and Industry-Institute Partnerships, we can create an ecosystem that nurtures professional excellence from the first year of engineering education itself.

My vision is ambitious yet achievable:

- ☑ Establish IEI Student Chapters across all Engineering colleges connected through all the 16 Local Centres.
- ☑ Create a network of Campus Ambassadors and Faculty Advisors.
- ☑ Conduct annual Innovation Challenges and Engineering Hackathons which will be accredited in Indian Engineering Congress every year.
- ☑ Launch Engineer-for-Society projects addressing local community needs which will have a seed funding.
- ☑ Strengthen startup ecosystems through Chapter wise innovation cells which will in turn connected with the Startup Tamizha/India.
- ☑ Facilitate industry internships, mentoring, and research collaborations with R & D wings of all the renowned industries which will be later added as part of the curriculum.
- ☑ Build a vibrant network of 100,000 student members across Tamil Nadu who will celebrate Engineering 2047 – 100 Years of Independence.

This initiative is not merely about institutional membership growth. It is about creating a generation of engineers who are professionally competent, socially responsible, globally competitive, and committed to nation-building.

The journey toward a Trillion-Dollar Tamil Nadu Economy cannot be achieved through policy alone. It requires engineering innovation, industrial productivity, technological leadership, sustainable development, and skilled human capital. Engineers will be the architects of this transformation.

Therefore, I extend a sincere invitation to:

Academic Leaders

Vice-Chancellors, Principals, Deans, Heads of Departments, Faculty Members, and Researchers to actively partner with IEI in building a stronger professional culture within campuses.

Industry Leaders

Industrialists, MSMEs, Startups, Manufacturing Enterprises, Technology Companies, Infrastructure Developers, Energy Organizations, and Corporate Leaders to join hands with IEI in mentoring, guiding, and nurturing the next generation of engineers.

Engineering Students

To become part of a century-old institution that has shaped the engineering profession in India and continues to provide a platform for learning, leadership, innovation, and networking.

Together, let us create the largest engineering movement in Tamil Nadu's history.

- ❑ Let us connect every engineering college.
- ❑ Let us empower every aspiring engineer.
- ❑ Let us strengthen industry-academia collaboration.
- ❑ Let us foster innovation for society.
- ❑ Let us build a professionally empowered engineering community.

And together, let us engineer the pathway toward a **Trillion-Dollar Tamil Nadu Economy and a Developed India.**

Engineering Excellence • Professional Leadership • National Development

Join our WhatsApp Channel for more information <https://whatsapp.com/channel/0029Vbc45KHJpe8iyqJ2Ap0C>

Visit our website : ieitnsc.org

Dr.J.Balamurugan,FIE

Honorary Secretary,
IE(I) TNSC

Guest Lecture on Cyber Security Awareness - Mobile Security

14th May 2026

The Institution of Engineers (India), Tamil Nadu State Centre organized an insightful guest lecture on the topic “Cyber Security Awareness: Mobile Security” on 14th May 2026 at 6.30 PM through online Zoom platform.

The session commenced with a welcome address delivered by Prof. Dr. D. Elango, Chairman of IE(I) TNSC, who warmly welcomed the Guest Speakers and participants and he emphasized the importance of the session.

Dr.V.S.Sriraja Balaguru, Joint Secretary of IE(I) TNSC introduced the Guest Speaker Dr. Balakumar V, SDE (MPLS Security), BSNL .

Dr. Balakumar V, focused on creating awareness about emerging cyber threats targeting mobile users and the importance of adopting safe digital practices. The session began with an overview of the increasing number of cybercrime incidents and the need for

cyber hygiene practices among individuals and organizations. The speaker elaborated on common cyber threats such as phishing attacks, malware, ransomware, online scams, investment frauds, dating scams, sextortion, and financial frauds targeting mobile users. Real-world examples and case scenarios were discussed to help participants understand how cybercriminals exploit human vulnerabilities through social engineering techniques.



Dr. V. Balakumar explained various aspects of mobile security, including hardware protection through biometric authentication, device encryption, tamper-resistant features, and the use of “Find My Phone” services. He also emphasized the importance of keeping mobile operating systems and applications updated, using trusted application sources, managing app permissions carefully, and practicing secure browsing habits.

Special attention was given to WhatsApp-related frauds and UPI-based financial scams, which are increasingly affecting mobile users. Participants were educated on identifying suspicious links, avoiding fake lottery messages, enabling two-factor authentication, and verifying information before sharing personal or financial details. The lecture also covered safe practices while using public Wi-Fi, cloud backups, and social media privacy settings.

The speaker discussed government initiatives such as CEIR (Central Equipment Identity Register) for reporting stolen mobile devices and highlighted recommendations from the Ministry of Home Affairs regarding the use of secure government communication platforms like eOffice, NIC Email, and KAVACH-enabled authentication systems for official communication.

Further, the role of Telecom Service Providers (TSPs) in preventing cyber frauds was elaborated, including measures to prevent SIM swap frauds, spoofing attacks, and suspicious financial activities through

secure verification mechanisms and fraud alert systems.

The session concluded with practical cyber hygiene recommendations, including the use of strong passwords, multi-factor authentication, regular software updates, secure data backup strategies, and prompt reporting of suspicious cyber activities. Dr.V.Balakumar stressed that cyber security is a shared responsibility and that building cyber resilience requires awareness, vigilance, and collective participation from all stakeholders.

The lecture was highly informative and interactive, providing valuable insights into safeguarding personal and organizational digital assets in the rapidly evolving cyber landscape. The participants appreciated the practical examples and actionable guidance shared during the session.

The event concluded with a vote of thanks proposed by Dr. J. Balamurugan, Honorary Secretary of IE(I) TNSC. He conveyed his heartfelt appreciation to the distinguished speakers for their insightful presentations and thanked the organizing team for their dedicated efforts in successfully conducting the program.

The recorded session is available on the IE(I) TNSC YouTube Channel:
<https://youtu.be/K9G9sNYeVso?si=8nGMX-nwfG80nHLP>

**All India Workshop on Smart Irrigation:
Leveraging Drone Technology for Precision Water Management
19th & 20th May 2026**

The Institution of Engineers (India), Tamil Nadu State Centre, in association with the Department of Agricultural Engineering, SRM Valliammai Engineering College (SRMVEC), successfully organized a two-days All India Workshop on “Smart Irrigation: Leveraging Drone Technology for Precision Water Management” on 19th and 20th May 2026.

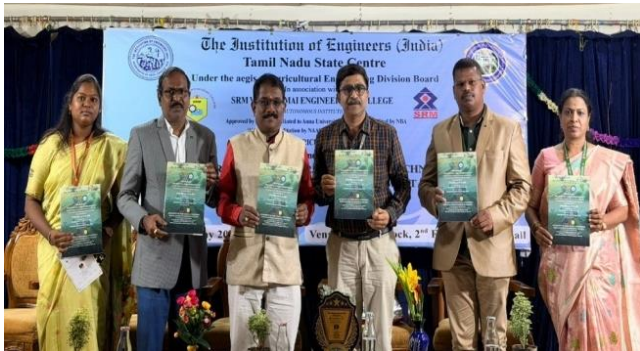
The workshop commenced with Tamil Thai Vazhthu, followed by the traditional lighting of the ceremonial lamp by the dignitaries. The ceremony marked the

formal inauguration of the programme and set a positive and inspiring tone for the proceedings.



Lighting of lamp by the dignitaries

Prof. Dr. D. Elango, Chairman, IE(I) Tamil Nadu State Centre, delivered the Welcome Address and warmly welcomed the Chief Guest, resource persons, faculty members, and participants. Er. P. Dhivya, Committee Member, Agricultural Engineering Division, IE(I) Tamil Nadu State Centre, introduced the theme of the workshop. Dr. S. Packialakshmi, Head, Department of Agricultural Engineering, SRMVEC, addressed the gathering and motivated the participants by emphasizing the importance of innovation and sustainability in modern agriculture and water management practices. The workshop souvenir was also released during the inaugural session.



Release of Souvenir

Dr. M. Murugan, Principal, SRM Valliammai Engineering College, delivered the Special Address. His constant encouragement and visionary leadership contributed significantly to the grand success of the event.

The workshop was inaugurated by the Chief Guest, Dr. V. Ramji, Associate Professor, Centre for Water Resources, Anna University, Chennai. In his inaugural address, he delivered an insightful presentation on “Smart Irrigation: Leveraging Drone Technology for Precision Water Management.” He highlighted recent advancements in smart irrigation systems, the role of drone technology in precision water management, and the growing importance of sustainable agricultural practices for future development.

Dr. J. Balamurugan, Honorary Secretary, IE(I) Tamil Nadu State Centre, proposed the Vote of Thanks and expressed gratitude to the dignitaries, resource persons, participants, and organizers for their valuable contributions towards the successful conduct of the workshop.

The first technical session, “Advanced Micro Irrigation Systems for Water Management,” was delivered by Dr. V. Ramji, Associate Professor, Centre for Water Resources, Anna University, Chennai. The session focused on modern micro-irrigation technologies, efficient water distribution systems, irrigation scheduling, and recent innovations for sustainable water resource management.

The second session, “Climate Adaptation and Resilience in Precision Farming,” was handled by Dr. E. Maheswari, Assistant Professor, Department of Agricultural Engineering, SRMVEC, Kattankulathur. The speaker discussed climate-smart agricultural practices, resilience strategies, precision farming techniques, and adaptive technologies for improving agricultural sustainability under changing climatic conditions.

An expert talk on “Managing Water Resources for Sustainable Agriculture and Automation in Irrigation” was delivered by Mr. D. Neduncheralathan, Rivulis Irrigation Private Ltd., Trichy. The session highlighted automation technologies, smart irrigation controllers, fertigation systems, and efficient water-use strategies in modern agriculture.

The final session of the day consisted of Hands-on Training on Micro Irrigation Systems, conducted by Mr. Varadharasu, Rivulis Irrigation Private Ltd., Trichy. Participants gained practical exposure to the installation, operation, maintenance, and troubleshooting of micro-irrigation components and systems.

The second day commenced with a session on “Organic Farming and Environmental Awareness” by Dr. Venkatesh Sangaiya, Founder, Bumitraa Landscape Pvt. Ltd. The session emphasized sustainable farming methods, eco-friendly agricultural practices, soil health management, and environmental conservation.

The next session, “Applications of Drone Technology in Smart Farming,” was delivered by Dr. N. Vairam, Assistant Professor, Department of Agricultural Engineering, SRMVEC, Kattankulathur. The

presentation covered the role of drones in precision agriculture, crop monitoring, irrigation management, aerial imaging, and data-driven farming practices.

An extensive practical training session on “Drone Designs, Operations and Maintenance – Hands-on Training with Drone-Assisted Precision Spraying and Irrigation” was conducted by Mr. Surendar, Manager, Aeroknotz Drones Pvt. Ltd., Siruseri, Chennai. Participants received live demonstrations and operational training on agricultural drones, spraying techniques, drone calibration, maintenance procedures, and safety practices.

In addition, students presented technical papers related to the workshop theme, providing a platform for academic exchange and innovation.

The Valedictory Address was delivered by Prof. Dr. D. Elango, Chairman, IE(I) Tamil Nadu State Centre, who highlighted the significance of the workshop and appreciated the efforts of all those involved in its successful organization. Er. P. Dhivya, Committee

Member, Agricultural Engineering Division, IE(I) Tamil Nadu State Centre, presented a summary of the two-day workshop. Er. V. Divyaprabha, Convener, proposed the Vote of Thanks.

Certificates were distributed to all participants, and appreciation was expressed to the resource persons, coordinators, faculty members, and participants for their contributions to the success of the programme. The workshop served as an excellent platform for knowledge sharing and skill development in the areas of smart irrigation, precision agriculture, sustainable farming, and drone technology applications in modern agriculture.

The programme successfully enhanced participants’ understanding of emerging technologies and sustainable practices that can contribute to improved agricultural productivity and efficient water resource management. The event concluded with the National Anthem, marking the successful completion of the workshop.

**World Telecommunication and Information Society Day on the theme
“Digital Lifelines-Strengthening Resilience in Connected World”
23rd May 2026**

The Institution of Engineers (India) Tamil Nadu State Centre celebrated the World Telecommunication and Information Society Day on the theme “Digital Lifelines: Strengthening Resilience in a Connected World” on 23rd May 2026 at 4.00 pm at IE(I) TNSC Auditorium, Chennai.



Lighting of lamp by dignitaries

The programme commenced with the Tamil Thai Vazhthu, followed by the traditional lighting of the kuthuvilakku. Prof. Dr. D. Elango, Chairman, IE(I), Tamil Nadu State Centre, delivered the Welcome Address and warmly welcomed the gathering. Er. M. Shanmugasundaram, Committee Member, Electronics & Telecommunication Engineering Division, IE(I), Tamil Nadu State Centre, introduced the Chief Guest, Dr. S. Joseph Winston, Scientific Officer-H, Head Remote Handling & Irradiation Experiments Division (RHIED), FRTG, IGCAR. The Chief Guest was felicitated with a shawl and a memento as a mark of respect and appreciation.

Dr.S.Joseph Winston, highlighted the critical role of digital technologies in enhancing public safety, disaster preparedness, communication, and resilience in an increasingly connected world.



Address by the chief guest

He elaborated on various digital lifelines that support modern society, including earthquake notification systems, tsunami warning systems, climate assessment and warning networks, and space-based defence systems. Detailed insights were provided into advanced earthquake and tsunami warning mechanisms that integrate sensors, satellites, communication networks, SMS gateways, web services, and emergency dissemination platforms to provide timely alerts and facilitate disaster mitigation.

A significant portion of the lecture focused on tsunami modelling and simulation techniques. The speaker explained the methodologies used in source modelling, propagation modelling, inundation modelling, and building-level interaction studies. Various fault mechanisms responsible for earthquake-generated tsunamis were discussed, along with numerical simulation studies conducted for the Tamil Nadu coast. The importance of accurate prediction of tsunami arrival times and inundation patterns for effective disaster management was emphasized.

He also highlighted the role of climate monitoring systems and advanced cyclone warning mechanisms that utilize satellite observations, weather stations, data aggregation centres, and dissemination platforms such as websites, SMS services, television, and email networks.

Further, he discussed emerging technologies supporting digital resilience, including the Internet of

Things (IoT), cloud computing, artificial intelligence and machine learning, pervasive computing, cellular networks, and advanced communication technologies. The presentation also covered planetary defence initiatives such as asteroid monitoring and redirection missions.

Addressing challenges to digital infrastructure, the speaker outlined risks arising from software failures, cyber attacks, hardware vulnerabilities, environmental factors, and obsolete technologies. Strategies for strengthening resilience were presented, including system redundancy, cyber security measures, regular software updates, load balancing, continuous monitoring, automated backups, and proactive maintenance practices.

In his concluding remarks, he emphasized that digital technologies have become indispensable in meeting human needs and improving safety, security, and operational efficiency. He stressed the importance of risk assessment, mitigation planning, and the development of common protocols for seamless data sharing across interconnected systems. The lecture provided valuable insights into the growing importance of resilient digital infrastructure and its role in safeguarding communities against natural and technological hazards.



The programme concluded with a Vote of Thanks proposed by Dr. J. Balamurugan, Honorary Secretary who expressed his sincere gratitude to the chief guest and participants for their valuable contributions and active participation, which contributed significantly to the grand success of the event. The programme ended with the National Anthem.

World Environment Day
Theme : “A Global Call for Climate Action”
13th June 2026

The Tamil Nadu State Centre of the Institution of Engineers (India) observed World Environment Day on the theme “A Global Call for Climate Action” on 13th June 2026 at 4.00 p.m. at the IE(I) TNSC Auditorium, Chennai.

To mark the occasion, saplings were planted within the premises of the Institution of Engineers (India), Tamil Nadu State Centre, by the dignitaries, reaffirming the Centre's commitment to environmental sustainability and ecological conservation.



Honouring the chief guest

He underscored that climate action is a shared responsibility and cannot be left solely to governments and policymakers. Every individual, institution, and community has a crucial role to play through sustainable practices, conservation of natural resources, and responsible consumption.

Addressing the engineering fraternity, he emphasized the pivotal role of engineers in developing sustainable solutions through renewable energy, green transportation, water conservation systems, smart agriculture, waste management technologies, and climate-resilient infrastructure. He appreciated the efforts of The Institution of Engineers (India) in promoting awareness and professional engagement towards environmental sustainability.

The Chief Guest also highlighted India's commitment to climate leadership through initiatives such as renewable energy expansion, electric mobility, the Green Hydrogen Mission, Mission LiFE, afforestation programmes, and sustainable urban development. He noted that economic growth and environmental protection can progress together through the principles of sustainable development.

Encouraging active participation from citizens, particularly the youth, he called upon everyone to plant trees, reduce plastic usage, conserve water, minimize waste, protect biodiversity, and adopt environmentally responsible lifestyles. He stressed that climate action is not merely an environmental issue but also a moral responsibility towards future generations.



Tree Planting by the Chief Guest

The programme commenced with Tamil Thai Vazhthu, followed by the traditional lighting of the lamp by the dignitaries. Prof. Dr. D. Elango, FIE, Chairman, IE(I) Tamil Nadu State Centre, delivered the welcome address and felicitated the Chief Guest with a shawl and memento.

Dr. V. S. Sriraja Balaguru, MIE Joint Secretary, IE(I) TNSC, introduced the Chief Guest, Er. Rajesh Kumar Das, FIE, IAS.

Er. Rajesh Kumar Das emphasized that climate change is one of the most pressing challenges confronting humanity today. He highlighted the increasing frequency of extreme weather events such as heatwaves, floods, droughts, forest fires, and rising sea levels, stressing that climate change is no longer a future concern but a present reality demanding immediate and collective action.

Concluding his address, Er. Rajesh Kumar Das urged all participants to become ambassadors of climate responsibility and work collectively towards building a greener, cleaner, and climate-resilient future. He congratulated The Institution of Engineers (India), Tamil Nadu State Centre, for organizing the programme and creating awareness on this important global issue.

Dr. J. Balamurugan, FIE, Honorary Secretary, IE(I) TNSC, proposed the vote of thanks. He expressed his gratitude to the Chief Guest, dignitaries, participants, and organizers for their valuable contributions and support in making the programme a success. The programme concluded with the National Anthem.



The event witnessed enthusiastic participation from members, students, faculty, and professionals, reaffirming the collective commitment towards environmental protection and sustainable development.

Know Your Member (KYM)

Dear Corporate Members,

We request all Corporate Members to kindly complete the **Know Your Membership (KYM)** form to enable us to update and maintain an accurate and comprehensive membership database.

Your cooperation in this matter is essential to ensure seamless communication and uninterrupted access to member services and benefits.

After duly completing the form, you are requested to submit it by email to datamemb@ieindia.org / ieitamilnadu@gmail.com or tncs@ieindia.org

We look forward to your prompt support and cooperation.

The KYM form is available on the IE(I) website: www.ieindia.org.

FORTHCOMING EVENTS

Date	Title	Venue
16 th July 2026	One Day Workshop on AI-Driven Innovations in Renewable Energy Systems	R.M.K. Engineering College

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Bulletin

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