

The Institution of Engineers (India)

A Century of Service to the Nation

**One Day Seminar
on
Next-Generation 6G Wireless Technologies for Sustainable
and Intelligent Communication Systems**

Date: 3rd August 2026

Organised by



The Institution of Engineers (India)
TAMILNADU STATE CENTRE

Under the Aegis of

Electronics & Telecommunication Engineering Division Board (ETDB), IE(I)

In association with



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
PAVENDAR BHARATHIDASAN COLLEGE OF
ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)**

Venue

**Seminar Hall, Department of Electronics and Communication Engineering,
Pavendar Bharathidasan College of Engineering and Technology,
Pudukkottai Main Road, Mathur, Kulathur, Pudukkottai - 622515**

About The Institution of Engineers (India)

The Institution of Engineers (India) or IE(I) is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IE(I) has membership strength of above 2.6 lakhs. Established in 1920, with its headquarter Kolkata, IE(I) has served the engineering fraternity close to a century. During this period of time, IE(I) has been inextricably linked with the history of modern-day engineering.

In 1935, IE(I) was incorporated by Royal Charter and remains the only professional body in India which has been accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 124 Centres located across the country and 6 overseas chapters. Besides, IE(I) has bilateral agreements with about 31 international bodies and membership of another 8 international bodies of the developed nations across the globe.

Being recognized as a Scientific and Research Organisation (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IE(I) promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, post graduate students and PhD Research Scholars of Engineering Institutions and Universities.

IE(I) has been recognized as Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India and besides conducting its' own research, provides Grant-in-Aid to UG/PG/PhD students of Engineering institutes and Universities.

IE(I) holds the International Professional Engineers (IntPE) Register for India under the global International Professional Engineers Alliance (IntPEA). The institution also awards the Professional Engineers (PE) Certification.

IE(I) in collaboration with Springer regularly publishes peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

For further details, please refer www.ieindia.org

About Tamil Nadu State Centre

The Tamil Nadu State Centre was established originally as the Southern India Centre at Chennai on 22nd December 1922. The Southern Region covered the erstwhile Madras, Andhra, Mysore, Hyderabad and Travancore – Cochin. As more centers were opened in the Southern Region, it was renamed as Madras Centre and later became the TamilNadu State Centre. TamilNadu State Centre has a special significance in the formation of the Institution; for the IEI was registered in 1920 in the then Madras Province at Chennai. The registered office was subsequently moved to Calcutta the Head Quarters of IEI. The Chief Guest for the Inaugural Function of the Annual General Session of IEI Madras Centre in 1959 was Thiru K Kamaraj, Chief Minister of TamilNadu. The TamilNadu State Centre is the most active centre in the country and has been serving the society in general and the engineering community in particular with the said objectives and plays a significant role in dissemination and proliferation of knowledge amongst its members. With a modest membership to start with, the centre has brought into its fold a large section of fraternity with membership strength of more than 30000 Corporate Members and more than 80000 Non – Corporate Members widening its horizon of technical activities. The centre has established sixteen Local Centres at Neyveli, Madurai, Coimbatore, Tiruchirappalli, Salem, Kalpakkam, Ranipet,

Tuticorin, Hosur, Kanyakumari, Tirunelveli, Thiruvallur, Kanchepuram, Thanjavur, Erode and Kattankulathur to serve more professional groups. The major activities of the Division include: Annual National Conventions, Annual & Semi-Annual Paper Meetings, Publication of Journals, Workshops / Seminars and Symposia and Prizes and Awards.

About Pavendar Bharathidasan College of Engineering and Technology (PABCET),

Pavendar Bharathidasan College of Engineering and Technology (PABCET), established in 1998 in Mathur, Tiruchirappalli, is an AICTE-approved, Anna University-affiliated institution focusing on quality technical education for rural and economically weaker students. Situated on a 27-acre campus, it offers various UG, management, and computer application programs. PABCET is committed to prepare students for life and work, equipping them to contribute to the technological, economical and social development of our country and to fulfill the vision of the Institution. PABCET takes seriously the responsibility of offering every student a feast of learning opportunities and is committed to impart holistic and value based professional education to the students.

About the Department of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering is committed to impart technical education in most efficient manner to the students and it is established in a year 1998 duly approved by AICTE with the annual intake of 60 students. With in a shortspan, the department has equipped itself with most of modern facilities required for achieving excellence, well established library and computer lab supported by rich core faculty.

About the Theme

The seminar on “Next-Generation 6G Wireless Technologies for Sustainable and Intelligent Communication Systems” aims to explore the emerging advancements in sixth-generation (6G) wireless communication technologies that are expected to convert future digital connectivity. With the quick growth of Internet of Things (IoT), artificial intelligence, smart cities, and autonomous systems, next-generation communication networks must support ultra-high data rates, extremely low latency, massive device connectivity, and energy-efficient operation. These requirements demand innovative communication architectures beyond the capabilities of current 5G systems. 6G technologies are intended to integrate advanced concepts such as terahertz communication, intelligent reflecting surfaces, AI-driven network management, and edge intelligence to allow highly reliable and sustainable communication infrastructures. These technologies will support several applications including smart transportation, digital healthcare, industrial automation, immersive extended reality, and large-scale wireless sensor networks. The seminar will deliver a platform for students, researchers, and academicians to understand recent developments in 6G communication technologies, explore future research challenges, and examine sustainable methods for intelligent wireless systems. The programme goal is to promote knowledge exchange and encourage innovative research that contributes to efficient, resilient, and sustainable next-generation communication networks.

Sub Theme:

- Key Technologies for 6G Wireless Communication
- AI-Driven Intelligent Communication Networks
- 6G for Smart Cities and Sustainable Digital Infrastructure
- Future Applications and Research Challenges in 6G Systems

Call for Papers:

Prospective authors are invited to submit manuscripts reporting original unpublished research and recent developments in the topics related to the theme of the seminar but not limited to sub-themes listed above.

Authors should send an Abstract up to 300 words to ieitamilnadu@gmail.com. The final paper should be in the format available on website (ieindia.org). All presented papers will be included in the proceedings of the seminar.

Important Dates:

Last Date for submitting Abstracts	16 th July 2026	Thursday
Intimation of Acceptance	20 th July 2026	Monday
Submission of full paper with Registration Fee	25 th July 2026	Saturday
Seminar Date	3rd August 2026	Monday

Registration Fee

MEMBER / DELEGATE REGISTRATION FEE		SPONSORS The Sponsors are entitled for free delegates, one full page advertisement, and a logo display in backdrop.	
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Students Fee	INR 354/-	Bronze Sponsor	INR 5,000/- 2 Free Delegates & Advt. –Inside Half Page (Colour)
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Registration fee includes Tea & Lunch during Seminar and a copy of the Souvenir / Technical Proceeding.

Registration & Payments

All payments are to be made through crossed Demand Draft / Cheque / NEFT/Online Net Banking Transfer In favour of “The Institution of Engineers (India), TamilNadu State Centre”. In case of NEFT / Online Net Banking transfer please mention the following

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CONTACT DETAILS

Dr. G. Haridoss
Associate Professor, Department of ECE, Pavendar
Bharathidasan College of Engineering and Technology,
Pudukkottai- 622 515

Mobile: 9865481065 / 9962950333,

Email: haridoss@gmail.com / ieitamilnadu@gmail.com



The Institution of Engineers (India)



Tamil Nadu State Centre **One Day Seminar on Next-Generation 6G Wireless Technologies for** **Sustainable and Intelligent Communication Systems** **3rd AUGUST 2026**

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