ORAL PRESENTATION

Research articles are invited for oral presentation. The accepted articles will be published in conference proceedings with ISBN number.

IMPORTANT DATES

Last date for Abstract submission	: **06/02/2026**
Acceptance Notification	: **09/02/2026**
Last date for Registration	: **13/02/2026**
Last date for Full paper submission	: **20/02/2026**

AUTHOR GUIDELINES

- Submit a full manuscript in MS Word document with IEEE format, not exceeding 10-12 pages.
- Ensure the manuscript is checked for plagiarism, with a similarity index not exceeding 15% and enclose plagiarism report along with the manuscript.
- Each team member must register individually.
- The first page should include the theme, title, authors' names and affiliations, abstract, and keywords.
- Submit manuscripts to **ncsera2026@avinuty.ac.in**

REGISTRATION FEE

Students (Final B.E / M.E)	- **Rs.750/- each**
Researchers/Faculty	- **Rs.1000/- each**
Industry Persons	- **Rs.1500/- each**

REGISTRATION LINK

https://forms.gle/bzjdsmVtGjZeuNGaA

ACCOUNT DETAILS

Account Name : **The Registrar**

Account Number : **6010310202**

Name of the Bank : **Indian Bank**

Branch : **ADUC Branch**

1117, Mettupalayam Road

Coimbatore 641 043

IFSC Code **: IDIB000A005**

Type of Account : **Savings Account**

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Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD [now MoE]
Re-accredited with an A++ Grade by NAAC CGPA 3.65/4, Category I by UGC
Coimbatore – 641 043, Tamil Nadu, India

School of Engineering

(Established in 1996 & Approved by AICTE)
Varapalayam, Coimbatore - 641 108.

Organizes

National Conference on Sustainable Engineering Research and Applications 2026 (NCSERA-2026)

on

26.02.2026 & 27.02.2026

CONTACT

Mobile: 9994929423, 9597359865

About the Institution

Avinashilingam Institute for Home Science and Higher Education for Women -the epitome of higher education is one of the premier institutions in India well known for its commitment towards the empowerment of women through value-based and holistic education. The institute follows the educational ideals of Sri Ramakrishna, Holy Mother Sri Saradamani Devi, Swami Vivekananda and Mahatma Gandhiji. The institute is one of the significant contributions of Padma Bhushan, Dr. T. S. Avinashilingam, an illustrious educationist, freedom-fighter and Gandhian and Dr.Rajammal P. Devadas, the world- renowned nutritionist. The Institute had its humble beginning in the year 1957 as Sri Avinashilingam Home Science College for Women and has been conferred the Deemed to be University by MHRD in 1988. Few of the recent accolades of the Institute includes: A++ with CGPA of 3.65/4 by NAAC, 99th Rank in NIRF, 4-Star Performer by Institution Innovation Council of MHRD and NBA accredited for eligible B.E Programmes. Presently, the institution is progressing towards 'beyond-excellence' under the able guidance and leadership of Dr.T. S. K. Meenakshisundaram, Managing Trustee and Chancellor, Dr. V. Bharathi Harishankar, Vice Chancellor and Dr. H. Indu, Registrar i/c.

About the School of Engineering

The School of Engineering, a constituent unit of Avinashilingam Institute for Home Science and Higher Education for Women, a Deemed to be University, was established in 1996 with the approval of the All India Council for Technical Education (AICTE), New Delhi. The School is spread across 30.7 acres and is located at Varapalayam, approximately 6 km from Mettupalayam Road.

The vision of the School of Engineering is to nurture industry-ready women engineers capable of competing in the global arena through innovation, entrepreneurship, and technical excellence.

The undergraduate (B.E.) programmes offered:

Artificial Intelligence and Data Science; Biomedical Instrumentation Engineering; Civil Engineering with Computer Application; Computer Science and Engineering Computer Science and Engineering (Artificial Intelligence and Machine Learning); Computer Science and Engineering (Internet of Things and Cyber Security including Blockchain Technology); Electronics and Communication Engineering; Food Technology and Printing and Packaging Technology. In addition, the postgraduate (M.E.) programmes offered: Artificial Intelligence and Data Science; Food Technology; Medical Electronics; and Embedded Systems and VLSI.

The School of Engineering is supported by a team of highly qualified faculty members who mentor and motivate students to achieve technical proficiency and professional competence. The curriculum follows an Outcome-Based Education (OBE) framework and is reviewed and updated annuallywith inputs from experts from academia, industry, and research organizations, as well as distinguished alumni who have excelled in their respective professional fields.

About the Conference

The conference aims to provide a dynamic platform for researchers, academicians, industry professionals and students to present and discuss innovative research and practical solutions addressing sustainability challenges in engineering on advancing sustainable biomedical and communication technologies, resilient infrastructure, AI and IoT technologies and green technologies in food processing and packaging through interdisciplinary collaboration. It seeks to promote knowledge sharing, foster research excellence and encourage the application of sustainable engineering practices for environmentally responsible and socially inclusive development.

Conference Objectives

The conference is primarily focused on the following objectives:

- To promote the design and development of sustainable and energy-efficient biomedical devices and communication technologies.
- To advance technologies for pollution control, resource conservation, ecosystem protection and sustainable infrastructure development.
- To encourage the development of data-driven and automated solutions that enhance sustainability across systems.
- To explore and promote sustainable practices throughout the food processing and packaging value chain.

Call for Papers

Authors are invited to submit their original and unpublished manuscripts, reviews or promising ideas that demonstrate research focusing on the following topics.:

Track 1 — Sustainable Biomedical Devices and Communication Technologies

- Affordable Medical Devices and POC Diagnostics
- Wearables and Preventive Healthcare Systems
- Sustainable Materials in Implants and Devices
- AI in Imaging: Accuracy, Bias and Efficiency
- IoT and Data Security in Healthcare
- Low-Power VLSI and Edge AI for Green Systems
- Sustainable Wireless (LPWAN, 6G, Smart Cities)
- Energy Harvesting, Battery-Free IoT
- Power Electronics for EVs, Renewables and Microgrids
- Design for Repair and E-Waste Reduction

Track 2 — Water, Environmental and Sustainable Infrastructure

- Low-Carbon and Recycled Materials
- Net-Zero Buildings and Smart Campuses
- Sustainable Water and Wastewater Solutions
- Green Transportation and Pavement Recycling
- BIM and Lifecycle Assessment
- Policy, Ethics and Law of Sustainable Technology
- Economics of Transition and Financing Models
- Science Communication and Community Engagement
- Education for Sustainability
- Impact Assessment and SDG Mapping

Track 3 — Artificial Intelligence and IoT Technologies for Sustainability

- Green Computing and Cloud-Edge Optimization
- Responsible AI for Climate, Health and Mobility
- Cybersecurity for Sustainable Systems
- Data Governance and Federated Learning
- Energy-Efficient Algorithms and Software

Track 4 — Green Technologies in Food Processing, Preservation and Sustainable Packaging

- Sustainable Food Processing and Preservation
- Circular Economy in Food Systems (Waste-to-Value)
- Cold-Chain Optimization with Renewables
- Food Safety, Traceability and Compliance
- Nutrition, Fortification and Health Outcomes
- Printed Electronics and Additive Manufacturing
- Lifecycle and Supply Chain Sustainability
- Printing and Packaging Quality, Standards and Testing
- Innovations in Packaging Technology
- Industry 5.0 and Smart Printing
- Sustainable Printing and Green Technologies