

International Conference on Emerging Electronics and Sustainability (ICEES 2025)

8th and 9th April 2025

Funded by ANRF, Govt of India

Organized by

Department of Integrated Research and Discovery

Department of Experiential Learning and Global Engagement

Department of Multidisciplinary Innovation and Entrepreneurship

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Department of Electronics and Communication Engineering

Bridges Innovation and Sustainability at KLEF

The INTERNATIONAL CONFERENCE ON EMERGING ELECTRONICS AND SUSTAINABILITY - ICEES 2025, kicked off with great enthusiasm and excitement on Day 1, marking the beginning of an insightful and inspiring event. In the Conference participants from various fields, including academia, industry, and research, eager to engage in meaningful discussions and exchange knowledge.

The session began with a warm welcome from organizing chair members, general Chair members, conveners, who expressed gratitude to all participants, speakers, patrons, chief patrons and chief guest. Dr. K. Subba Rao, Registrar, outlined the significance of the conference, emphasizing the key themes and objectives that would be explored in the upcoming sessions.

The highlight of the inauguration was the keynote speech delivered by Prof R. Jayavel, Dean, Anna University, ACT campus. The keynote focused on **with innovations in nanomaterials designed to make electronics more eco-friendly**, offering valuable insights and thought-provoking perspectives and future aspect in the field. The speaker emphasized on energy storage, transistors, which resonated deeply with the audience and set the stage for the discussions to follow throughout the conference. The Inauguration session was graced by another two guests Prof. V. Rajendran, Vice chancellor AMET University **spoke on building climate-resilient electronic systems, highlighting the role of tech in adapting to**

environmental challenges and Prof. G. R Sinha, Vice Chancellor GSFC University share his valuable insights on **ethical AI and its role in sustainable development**.

Following the inaugural speeches, Dr. V. Viswanath Shenoi, HOD-IRD, provided a brief overview of the schedule for the conference, highlighting the sessions, panel discussions, workshops, and networking opportunities. Attendees were encouraged to participate actively in the sessions to maximize the value they could gain from the conference.

International Conference on Emerging Electronics and Sustainability (ICEES 2025), proudly sponsored by the Advanced National Research Foundation (ANRF), kicked off on a high note at Koneru Lakshmaiah Education Foundation (KLEF), Vaddeswaram, a two-day conference which was scheduled on April 9th, 2025, April 10th, 2025. Over the span of two days, this international conference has become a melting pot of ideas and innovation bringing together researchers, scholars, technologists, industry and academia experts and enthusiastic students to explore the future of sustainable electronics and interdisciplinary breakthroughs.

This prestigious event is co-hosted by four dynamic departments at KLEF—Integrated Research and Discovery (IRD), Experiential Learning and Global Engagement (EL&GE), Multidisciplinary Innovation & Entrepreneurship (MDIE), and Electronics & Communication Engineering (ECE). Together, they've shaped a powerful agenda centered around themes like Sustainable and Flexible Electronics, Nanotechnology and Bioelectronics, Renewable Energy and Electric Vehicles, Sustainable IoT and Robotics, and AI, Quantum Computing, and Edge Technologies.

ICEES 2025 attracted an overwhelming response, receiving over 400 submissions, out of which approx. 225 research abstracts were handpicked from institutions of across India and abroad. There is a special poster presentation session for the graduate students, different institutions students participated, where promising student-led projects are being showcased competing for awards across various thematic tracks. There are invited guest speakers from different reputed institutions and Industry who shared their valuable knowlwdge on the current technologies. Key note speakers of the conference are **Dr. M. Satish (CSIR-CECRI)**, **Dr. Kaushik Parida (IIT Roorkee)**, **Dr. Sourav Chakraborty (IIT Tirupati)** **Dr. C. Navinkumar (TCS)**—**Real-time applications of quantum and AI**, **Dr. C. Arunkumar (VIT Vellore)**, **Dr. Paromita Dutta (IIT Bombay)**, **Dr. Puneet Misra (University of Lucknow)**, **Dr. Mani Madhukar (IBM India)**.

Behind the scenes, the event owes its success to the tireless efforts of KLEF's leadership, dedicated organizing teams, and supportive patrons. From chief patrons to general chairs and conveners, every detail has been carefully curated to ensure a smooth and impactful conference experience.

ICEES 2025 is also proud to be guided by a Global Technical Advisory Committee consisting of top-tier researchers from Australia, the UK, South Korea, Thailand, Egypt, Malaysia, Poland, and India. Their expert reviews and insights have upheld the highest standards in academic rigor and global relevance. Key members include Prof. Ajayan Vinu (University of

Newcastle, Australia) and Prof. S. Ravi P. Silva (University of Surrey, UK), among many other respected scholars.

Selected high-quality research papers will be considered for publication in leading indexed journals, including Energy Nexus, Ain Shams Engineering Journal, and Journal of Solar Energy and Sustainability, offering authors a chance to make a lasting impact in the scientific community.

“ICEES 2025 marks a significant step toward blending electronics innovation with sustainability,” said Dr. V. Vivekananthan and Dr. S Arunmetha, Conveners of the Conference. “It reflects KLEF’s commitment to interdisciplinary learning and global engagement.”

As the second day unfolds with enthusiastic student presentations and concluding sessions, the energy at ICEES 2025 remains electric. Conversations are flowing, ideas are evolving, and the future of sustainable electronics looks brighter than ever.

Conference was concluded with the vote of thanks remark by the Dr. V. Viswanath Shenoi, HOD-IRD and Conveners Dr. V. Vivekananthan, Assoc. Professor-IRD Dr. S. Arunmetha, Assoc. Professor-EL&GE.