



ST.ANN'S

COLLEGE OF ENGINEERING & TECHNOLOGY - CHIRALA

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BINARY MODE

The 3rd International Conference on Innovations in Electrical, Electronics and Communication Engineering (ICIEECE-2025)

DATES OF THE CONFERENCE

❖ 25-OCTOBER-2025 (VIRTUAL)

❖ 26-OCTOBER-2025 (OFFLINE)



ABOUT THE ORGANIZATION

St. Ann's College of Engineering & Technology (SACET) was established in the year 2001 at Vetapalem Mandal, Chirala, Bapatla District, Andhra Pradesh by the St.Mary Educational Society, pioneered by Educationalists, Industrialists, and Philanthropists. The College is housed amidst lush green fields, in serene environment, free from pollution and conducive for the pursuit of education. Bay of Bengal is just two km away from the college. The Institution is Approved by AICTE, New Delhi and is Permanently Affiliated to the JNTUK, Kakinada, Andhra Pradesh, India. It is Accredited by National Board of Accreditation (NBA) Thrice, & Permanently Accredited by Institution of Engineers (IE). The Institution is Accredited by NAAC with 'A' Grade both in I and II cycles. Recognized by UGC Under Section 2(f) and 12(B) of UGC Act, 1956. Awarded 'A' Grade by Andhra Pradesh State Government.

The College has MOU with ISRO Space Application Center, Ahmadabad. The college is approved as TSDI [SEIMENS] by AP State Government. Now, the status is "Autonomous".

€ Submit your articles to papers.iirmsdt@gmail.com, blsdt services@gmail.com

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- ❖ Through Conference, Research Articles will be published in various Scopus, Web of Science, UGC Care, and SCI Journals with a separate fee.
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IMPORTANT DATES

11.10.2025

Title & Abstract with authors

15.10.2025

Full Paper Submission

17.10.2025

Dead Line of Registrations

20.10.2025

The Schedule & Conference link

25.10.2025 & 26.10.2025

3rd ICIAIEEC-2025

Note: Plagiarism must be less than 10%

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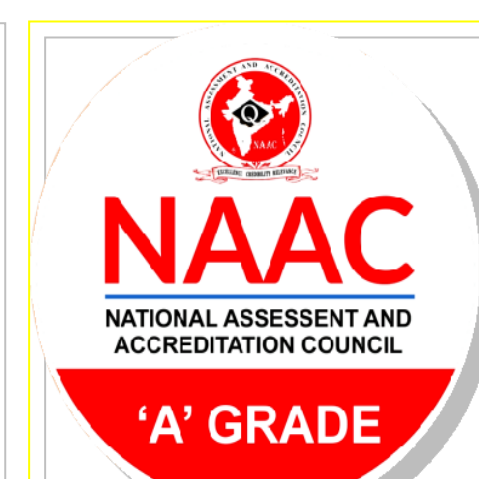
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THEMES OF THE CONFERENCE

Full paper submissions from Faculty, Emerging Researchers and Enthusiastic students are invited for the International Conference on Innovations in Electrical, Electronics & Communication Engineering –3rd ICIEECE–2025 to be held at St. Ann's College of Engineering & Technology, Chirala, Bapatla, Andhra Pradesh, India. This is a good platform for researchers, academicians, students, innovators, scientists and industry personnel to discuss Advanced Innovations in Electrical, Electronics & Communication Engineering. This conference will be a good platform to share the advanced Inventions in Electrical, Electronics & Communication Engineering, and best-practices where constructive feedback and engagement with domain experts is expected. We encourage any submissions that present novel ideas, works-in-progress or any concepts that you think can benefit from inputs of experts.

Selected extended papers in this conference aims to provide a scholarly platform for participants to publish their research indexed by the reputed Scopus with a separate fee.

The 3rd ICIEECE-2025 invites Original Contributions on all topics related to the following domains and but not limited to the following (Multidisciplinary)

1. Sustainable Energy and Smart Grids
 - ✚ Renewable energy sources and grid integration
 - ✚ Energy storage and management
 - ✚ Power electronics for green energy
 - ✚ Smart grid technologies and IoT integration
 - ✚ Electric vehicles and charging infrastructure
 - ✚ Power system reliability and stability
2. Wireless Communication and Networking
 - ✚ 5G/6G technologies and beyond
 - ✚ Internet of Things (IoT) and its applications
 - ✚ Wireless sensor networks and smart cities
 - ✚ Satellite communication and space networks
 - ✚ Network security and cryptography
 - ✚ Cognitive radio and dynamic spectrum access
3. Robotics, Control Systems, and Automation
 - ✚ Robotics and autonomous systems
 - ✚ Industrial automation and process control
 - ✚ Mechatronics and embedded systems
 - ✚ AI and machine learning in control systems
 - ✚ Cyber-physical systems
 - ✚ Human-robot interaction and collaborative robots (cobots)
4. Signal Processing and Image Processing
 - ✚ Digital signal processing (DSP) techniques
 - ✚ Speech and audio processing
 - ✚ Biomedical signal processing
 - ✚ Image and video compression techniques
 - ✚ Pattern recognition and machine learning for image analysis
 - ✚ Applications in multimedia and virtual reality
5. Embedded Systems and VLSI Design
 - ✚ Low-power VLSI design and technology
 - ✚ FPGA-based design and applications
 - ✚ Real-time embedded systems
 - ✚ System-on-Chip (SoC) and hardware accelerators
 - ✚ Internet of Things (IoT) and edge computing
 - ✚ Wearable technology and embedded AI
6. Artificial Intelligence and Machine Learning in ECE/EEE
 - ✚ AI applications in power systems
 - ✚ AI for wireless communication and networks
 - ✚ Machine learning in signal and image processing
 - ✚ AI in robotics and automation
 - ✚ AI for embedded systems and IoT devices
 - ✚ Deep learning and neural networks in hardware design
7. Electromagnetic and Microwave Engineering
 - ✚ Antenna design and electromagnetic wave propagation
 - ✚ Microwave and millimeter-wave circuits
 - ✚ RF and microwave engineering for 5G/6G
 - ✚ Terahertz technology and applications
 - ✚ Electromagnetic compatibility and interference
 - ✚ Computational electromagnetics and simulation
8. Optoelectronics and Photonics
 - ✚ Optical fiber communication and networking
 - ✚ Photonic integrated circuits (PICs)
 - ✚ Laser technology and applications
 - ✚ Quantum optics and quantum communication
 - ✚ Optical sensors and imaging systems
 - ✚ Nonlinear optics and nanophotonics
9. Nanotechnology and Materials in Electronics
 - ✚ Nanomaterials for electronics and energy
 - ✚ Nanoscale device fabrication and characterization
 - ✚ Graphene and other 2D materials in electronics
 - ✚ Organic electronics and flexible devices
 - ✚ Nanoelectronics for energy harvesting
 - ✚ MEMS and NEMS (Micro/Nano-Electromechanical Systems)
10. Biomedical Electronics and Healthcare Technology
 - ✚ Wearable medical devices and sensors
 - ✚ Biomedical signal processing and diagnostics
 - ✚ Telemedicine and e-health solutions
 - ✚ Imaging systems for healthcare applications
 - ✚ AI and IoT in healthcare
 - ✚ Biomedical instrumentation and bioelectronics
11. Quantum Computing and Quantum Communication
 - ✚ Quantum circuits and algorithms
 - ✚ Quantum communication protocols
 - ✚ Quantum sensors and cryptography
 - ✚ Quantum computing hardware and software development
 - ✚ Quantum information theory
 - ✚ Applications of quantum technologies in electronics and communication
12. Internet of Things (IoT) and Cyber-Physical Systems
 - ✚ IoT networks and cloud integration
 - ✚ Edge computing and IoT security
 - ✚ Smart cities and smart infrastructure
 - ✚ Industrial IoT (IIoT) applications
 - ✚ AI in IoT for predictive analytics
 - ✚ Cyber-physical systems and security challenges
13. Power Electronics and Electric Drives
 - ✚ Power conversion technologies
 - ✚ Motor drive technologies and electric vehicles
 - ✚ Energy-efficient power systems
 - ✚ High-frequency converters and inverters
 - ✚ Power electronics for renewable energy
 - ✚ Advanced control techniques for power systems
14. Advanced Semiconductor Technologies
 - ✚ Next-generation semiconductor devices
 - ✚ Gallium nitride (GaN) and silicon carbide (SiC) technologies
 - ✚ Advanced MOSFET and transistor technologies
 - ✚ Nano-CMOS and FinFET devices
 - ✚ Emerging semiconductor materials
 - ✚ Semiconductor fabrication and packaging
15. Satellite and Space Communication
 - ✚ Low Earth Orbit (LEO) satellite communication systems
 - ✚ Inter-satellite communication networks
 - ✚ Remote sensing and satellite imaging technologies
 - ✚ Deep space communication systems
 - ✚ Space-based Internet of Things (IoT)
 - ✚ Space weather and its impact on communication systems

INSTRUCTIONS TO AUTHORS

Original papers based on theoretical or experimental works related to the above mentioned themes are solicited for presentation in the conference. The paper should begin with the title, short abstract and a list of keywords. Simultaneous submissions (papers already submitted to other conferences/journals) are not allowed.

Note: Please do not submit plagiarized papers

Note1: Pages must be required minimum 5 and maximum 8, extra pages will be charged separately.

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ABOUT THE CONFERENCE

The 3rd International Conference on Innovations in Electrical, Electronics & Communication Engineering – 3rd ICIEECE-2025 is to be held on 25-10-2025 & 26-10-2025 at St. Ann's College of Engineering & Technology, Chirala, Bapatla, Andhra Pradesh, India. The Conference provides an opportunity to Research Scholars, Faculty, Industry Professionals, Delegates and Students to interact and share their experience and knowledge in the fields of Electrical, Electronics & Communications Branches and also other branches (Multidisciplinary).

The 3rd ICIEECE - 2025 will be an exceptional international forum for sharing knowledge and results in Innovations, Recent Challenges in Engineering Technology and Sciences. The aim of the Conference is to provide a platform to the researchers and practitioners from both academia as well as industry to meet and share cutting edge developments in the relevant fields. An engineer is a professional practitioner of engineering, concerned with applying scientific knowledge, mathematics, and ingenuity to develop solutions for the technological and societal problems. Therefore, an ideal engineer is a composite and to operate at the interface between science and society.

The 3RD ICIEECE-2025 can throw up several new ideas and solutions to address the present-day innovations in the fields of Science, Engineering and Technology. The scope of the conference is broad and covers many aspects of international technology prospective. This conference aims to provide a scholarly platform for participants to publish their research indexed by Elsevier and scholarly online Journals with DOI with a separate fee.
