



Raj Kumar Goel Institute of Technology

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U.P. 201017



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RAJ KUMAR
B.Tech.



**6th International Conference
on
Advancement in Electronics &
Communication Engineering
(AECE-2026)**



Conference ID: 71519

**Jointly Organized By:
Department of Electronics & Communication Engineering
&
Department of Computer Science & Engineering**



20th & 21st November 2026



<https://aece2026.rkgitedu.in>

6th International Conference

Advancement in Electronics & Communication Engineering

AECE-2026

ABOUT THE INSTITUTION

Raj Kumar Goel Institute of Technology, Ghaziabad was established in 2000 with the approval of All India Council for Technical Education (AICTE), New Delhi and affiliated to Dr. APJ Abdul Kalam Technical University (Formerly, Uttar Pradesh Technical University), Lucknow with a vision to continually develop excellent professional capable of providing sustainable solutions to challenging problems in their fields and prove responsible global citizens. The institute is conducting programs in B. Tech in CSE, CSE (AI/ML), CSE (IoT), CSE (DS), CS, ECE, EEE, IT, CE, ME, M.Tech (CSE), M.Tech (ECE), D.Pharma, B.Pharma, M.Pharma, BCA, MCA, BBA and MBA program.

The institute stands for quality embedded higher education at par with global standard and an excellent learning environment backed by innovative state-of-the-art infrastructure. Further, it aims to add greater value to the world of crucial engineering developments and technological breakthroughs through an active focus on research and development skills.

ABOUT THE DEPARTMENT

Electronics and Communication Engineering (ECE)

Electronics and Communication Engineering (ECE) Department of RKGIT works strongly to emphasize the fundamentals of the Electronics & Communication Technology, so that the students are introduced to complex subject in an interesting and easy manner. The Department is accredited by NBA for B. Tech (ECE Program) and focuses on outcome based education. The Department offers academic programs in B.Tech and M.Tech (ECE) with the advanced courses in Communication Engineering, Microwave & Antenna Engineering, VLSI Design, Digital/Analog Integrated Circuit etc. Technical trips to several Industries, Industrial training and expert talks on the emerging technologies are organized to make the students aware about the latest advancement in the field of Electronics and Communication Engineering. The department always encourages the students to be an entrepreneur. In this regard the department organizes several Entrepreneurship awareness program.

Computer Science & Engineering (CSE)

Computer Science & Engineering aims to motivate young professionals and enrich the budding engineers with latest trends in technology. The curriculum is designed in a way so that the students can gain hands on practical knowledge, which helps them in developing the society to lead a better and healthy life in the fast moving technocrat world. The Department is accredited by NBA for B. Tech (CSE Program) and focuses on outcome based education. The Department offers academic programs in B.Tech and M.Tech (CSE).

The department is committed to continuously improve the quality of education by enhancing the knowledge of students and staff members. The department of Computer Science & Engineering is well equipped with centralized laboratories having the latest configurations and software tools.

ABOUT THE CONFERENCE

AECE-2026 is the premier conference addressing advances in all AI, IoT & Antennas, Communication and Signal Processing including theory, tools, applications, systems, test-beds and field deployments. The conference focuses on the core science to develop fundamental principles that underpin the integration of cyber and physical elements, as well as on the development of technologies, tools, architectures and infrastructure for building AI, IoT & communication systems, highlighting the design, implementation, and investigation of communication applications. The scope of AECE-2026 is to provide an international forum to promote, enhance and stimulate international research interactions and collaboration in the fields of Computer Science, Electronics, Electrical, Healthcare and Information Technology. It will facilitate to promote the exchange of ideas among interested researchers, students, industrialist, developers and practitioners. This conference will also feature plenary talks, workshops, and parallel technical sessions.

TRACK 1:
Advanced Communication Systems and Networks

- 5G/6G wireless, massive MIMO and mm Wave systems
- Optical, satellite and underwater communication
- Cognitive radio, software defined radio and spectrum management
- Network security, QoS, SDN and network virtualization
- Wireless Sensor Networks

TRACK 2:
VLSI Embedded System Design

- VLSI/ULSI, ASIC/FPGA design and verification
- Low-power, high-speed and mixed-signal circuit design
- Hardware security and trusted hardware
- MEMS/NEMS sensors and biomedical/ wearable electronics
- Embedded Systems and Real-Time Hardware Design
- System-on-Chip (SoC) and Hardware–Software Co-Design Advanced Semiconductor Devices and IC Fabrication Technologies

TRACK 3:
Signal, Image and Video Processing

- Digital signal processing for communications and control
- Image, video, medical and remote sensing signal processing
- Pattern recognition, computer vision and multimedia systems
- Speech, audio and biometric signal processing

TRACK 4:
Artificial Intelligence, Machine Learning, Data Science & IoT

- Deep learning for communication systems and networking
- Data science and big data analytics in engineering applications
- Edge AI, federated learning and on-device intelligence
- IoT Architecture & Protocols
- Cyber-Physical Systems
- Smart Cities & Infrastructure
- Industrial IoT (IIoT) Applications
- Security, Privacy & Trust in IoT Networks

TRACK 5:
Security, Privacy and Emerging Computing Paradigms

- Cyber security in communication networks and IoT
- Cryptography, blockchain and distributed ledgers
- Cloud, fog and edge computing
- Quantum communication, quantum computing and neuromorphic systems

**TRACK 6:
Power System, Smart Grid & Control System, Robotics & Automation**

- Smart Grid Technologies and Intelligent Power Management
- Modern Control Systems and Optimization Techniques
- Power Electronics and Renewable Energy Integration
- Robotics and Industrial Automation Systems
- Advanced Power Apparatus
- AI-Based Monitoring and Control in Power and Automation Systems

**TRACK 7:
Sustainable Technologies for a Better Tomorrow**

- Industry 5.0 – Human-Centric Next Generation Manufacturing
- Green Computing and Sustainable ICT (Information and Communication Technology)
- Green communication, energy harvesting and low-carbon networks
- Societal Impact and Digital Transformation
- Policy, ethics and societal impact of pervasive intelligent systems
- Sustainable Infrastructure and Transportation
- Energy Harvesting & Smart Energy Systems
- Healthcare, Biomedical and Wearable Technologies

**TRACK 8:
Emerging & Interdisciplinary Technologies**

- Quantum Computing and Quantum Communication
- Digital Twin and Cyber-Physical Systems
- Block chain for Secure and Distributed Applications
- Extended Reality (AR/VR/MR) Systems
- AI-Driven Interdisciplinary Smart Solutions

**TRACK 9 : (Special Session 1)
AI/ML and IoT for Post - Silicon and Intelligent Hardware Systems.**

- AI/ML applications in hardware testing and post-silicon validation
- Machine learning for ageing, variability, and failure modeling
- AI-based power, performance, and thermal optimization
- Smart sensors for real-time silicon/system health tracking
- AI-assisted hardware security and anomaly detection
- Intelligent embedded systems and heterogeneous architectures
- AI-driven adaptive and self-optimizing SoCs

**TRACK 10: (Special Session 2)
Emerging Trends in Large Language Models (LLMs) and High-Performance Computing (HPC) Systems**

- High Performance Computing Frameworks for Generative AI Systems
- Security, Privacy, and Trust in AI for Large Language Models
- Model Compression, Quantization, and Efficient Deployment of LLMs
- Hybrid CPU-GPU Infrastructures for Generative AI Systems

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Instruction to Authors

Full paper in IEEE format should be submitted through on-line paper submission process (Conference Management Tool) Manuscripts for AECE-2026 will ONLY be accepted in electronic format through CMT online submission system. Please do not send hard copy of your paper. If you are unable to submit your contribution electronically, please contact us through mail.

REGISTRATION CHARGES

Registration Type	Fee for IEEE Members	Fee for Non- IEEE Members
Students	INR 7700	INR 8500
Academicians	INR 9000	INR 10000
Industry	INR 13950	INR 15500
Authors with affiliation outside India	USD 225	USD 250
Attendees	INR 1500	INR 2000

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IMPORTANT DATES

Paper Submission Open	February 12, 2026
Paper Submission Deadline	September 9, 2026
Final Acceptance Notification	October 15, 2026
Registration Deadline	October 30, 2026
Camera Ready Paper	November 05, 2026
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