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ICEECIS-NS 2026

4-5 DEC 2026

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The Institution of Engineers (India)
Bhilai Local Chapter

Rungta College of Engineering & Technology
Rungta International Skills University, Bilai, Chhattisgarh, India



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Rungta International Skills University

Dr. Sourabh Rungta

Pro-Chancellor
Rungta International Skills University

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Rungta International Skills University

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Rungta International Skills University

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Rungta International Skills University

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Director, SoET
Rungta International Skills University

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Rungta International Skills University

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Dr. Lakhwinder Kaur
Dr Rejo Roy
Dr. Debshree Bhattacharya
Ms. Namrata Dewangan
Mr. Sandeep Bhad

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Organizing Committee

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Mr. Deepak Sharma
Mr. Nageshwar P. Chandra
Ms. Bhumika Shrivastava
Ms. Divya Dewangan

About the Conference

ICEECIS-NS 2026 brings together academia, industry, and regulatory bodies to advance electrical, electronics, communication, and intelligent systems with a focused emphasis on the reliability, resilience, and safety of critical infrastructure. While the conference maintains a broad engineering scope to attract high-quality research, every track features distinct sub-themes dedicated to safety-critical and nuclear-relevant applications. This design ensures direct alignment with AERB's mandate of disseminating technical knowledge to create awareness about nuclear and radiation safety.

THEME & VISION

Advancing Intelligent Electrical, Electronics, and Communication Technologies for Safe, Secure, and Sustainable Nuclear Systems.

This theme emphasizes the integration of emerging technologies such as artificial intelligence, intelligent control, advanced communication networks, smart sensors, automation, cybersecurity, and digital systems to enhance the safety, reliability, efficiency, and sustainability of nuclear power plants and associated infrastructure.

Conference Vision:

To establish Shaastrarth 2026 as a premier international platform for researchers, academicians, industry professionals, policymakers, and students to exchange knowledge, present pioneering research, and foster collaborations in electrical engineering, electronics, communication technologies, and intelligent systems. The conference envisions promoting innovations that enhance nuclear safety, operational reliability, cybersecurity, environmental sustainability, and the future of clean energy through interdisciplinary research and technological excellence.

Conference Objectives

- Promote research and innovation in electrical, electronics, communication, and intelligent systems for nuclear safety.
- Encourage interdisciplinary collaboration between academia, research organizations, industry, and regulatory bodies.
- Showcase recent advancements in AI, IoT, robotics, automation, digital twins, cybersecurity, and smart monitoring for nuclear applications.
- Discuss emerging challenges and solutions in nuclear power generation, control, instrumentation, and safety systems.
- Facilitate knowledge sharing on international standards, best practices, and regulatory frameworks for nuclear safety.
- Inspire young researchers and students to contribute to the development of next-generation intelligent technologies for critical infrastructure and clean energy systems.
- Support sustainable and resilient energy development through innovative engineering solutions.

Conference Theme

Electrical, Electronics, Communication & Intelligent Systems for Nuclear Safety (ICEECIS-NS 2026)

The conference focuses on the convergence of Electrical Engineering, Electronics, Communication Technologies, Artificial Intelligence, Intelligent Control, Automation, Robotics, Cybersecurity, and Digital Technologies to strengthen nuclear safety, operational reliability, and sustainable energy systems.

Conference Tracks

ICEECIS-NS 2026 invites original, unpublished research contributions across the following thematic tracks spanning sustainable energy, advanced materials and infrastructure engineering.

Track 1: Nuclear, Radiation & Industrial Safety Systems

Focus: Safety-critical technologies, regulatory compliance, and practices for nuclear and allied high-risk industries.

- Safety-critical Instrumentation & Control (I&C) systems in nuclear facilities
- Electrical power reliability, emergency power systems, and grid-stability in Nuclear Power Plants (NPPs)
- Radiation protection, advanced monitoring technologies, and radiological safety
- Industrial, fire, and chemical safety in nuclear fuel cycle facilities
- Human-Machine Interfaces (HMI), human factors, and organizational safety culture
- Severe accident mitigation systems, probabilistic risk assessment, and regulatory compliance

Track 2: Advanced Power Systems & Smart Grids

Focus: Resilient, secure, and safe operation of power infrastructure for critical and emergency applications.

- Reliability and black-start capability of emergency Station Blackout (SBO) power supplies and diesel generators in NPPs
- Power system protection, transient analysis, and grid optimization
- Smart grid resilience, microgrids, and secure integration of renewable energy sources
- High-voltage engineering, insulation coordination, and substation safety
- Energy storage systems, power quality improvement, and grid-scale reliability assessments

Track 3: Power Electronics, Electric Drives & Industrial Automation

Focus: Reliable power conversion, motor control, and automation architectures for industrial and hazardous environments.

- Design, condition monitoring, and diagnostics of highly reliable electric motor drives for Reactor Coolant Pumps (RCPs)
- Advanced power electronic converters, inverters, and thermal management systems
- Industrial drives, intelligent motor control algorithms, and automation technologies
- Failure analysis, lifetime estimation, and reliability engineering of power semiconductor devices
- Energy-efficient and fault-tolerant topologies for safety-critical industrial processes

Track 4: Artificial Intelligence, Machine Learning & Signal Processing

Focus: Intelligent computational frameworks for fault detection, anomaly monitoring, and decision support in critical systems.

- AI-driven predictive maintenance and acoustic signal processing for early leak detection in Nuclear Steam Supply Systems (NSSS)
- Advanced AI/ML algorithms for automated fault diagnosis, anomaly detection, and pattern recognition
- Image processing and computer vision techniques for non-destructive defect inspection and safety audits
- Digital twin architectures and real-time simulator applications for complex engineering infrastructure
- Explainable AI (XAI) and intelligent decision-support systems for control room operations

Track 5: VLSI, Semiconductor devices, Microelectronics & Embedded Systems

Focus: Fault-tolerant, hardware-level reliability, and radiation-hardened electronic designs for harsh operational environments.

- Radiation-hardened mixed-signal Application-Specific Integrated Circuits (ASICs) and FPGAs for in-core sensor instrumentation
- Fault-tolerant VLSI design principles, microelectronics, and semiconductor technologies
- Embedded systems engineering, real-time operating systems (RTOS), and hardware description languages
- Low-power architecture and smart sensor interfaces for continuous safety monitoring
- Severe environment reliability testing, qualification standards, and electronic component diagnostics

Track 6: Wireless Communication, IoT & Cyber-Physical Security

Focus: Secure, resilient, and ultra-reliable network communication infrastructure for monitoring and remote handling.

- Secure, Ultra-Reliable Low-Latency Communication (URLLC) frameworks for remote robotic manipulation of radioactive waste
- Secure wireless networks, optical communication, and 5G/6G deployment in industrial facilities
- Industrial IoT (IIoT) and smart sensor networks for remote radiological and environmental safety monitoring
- Cryptography, cybersecurity frameworks, and data integrity for critical cyber-physical systems
- Resilient networking and real-time communication protocols for safety-critical distributed control networks

Invited Speakers & Keynote Faculty

ICEECIS-NS 2026 brings together the University's distinguished international and national keynote speakers, featuring globally renowned experts and eminent scholars whose diverse expertise encompasses sustainable energy, materials science, infrastructure, and computational engineering.

International Keynote Speakers



Dr. Chitresh Saraswat

Hoffmann Fellow Innovation in Climate
Adaptation with World Economic Forum
Genewa, Switzerland

Prof. (Dr.) Mohammad Israr

President,
Maryam Abacha American University of Nigeria Kano,
Federal Republic of Nigeria

Dr. Ramesh Chandra Shrivastava

Ex Professor,
Department of Electrical Engineering
University of London

Dr. Sumit Bhardwaj (Post Doc, Ph.D)

Asst Director – Gen AI, EY India
Postdoctoral Scholar, Lund University
Sweden

Indian Invited Speakers



Dr. Chitresh Saraswat

Hoffmann Fellow Innovation in Climate
Adaptation with World Economic Forum
Genewa, Switzerland

Prof. (Dr.) Mohammad Israr

President,
Maryam Abacha American University of Nigeria Kano,
Federal Republic of Nigeria

Dr. Ramesh Chandra Shrivastava

Ex Professor,
Department of Electrical Engineering

Dr. Sumit Bhardwaj (Post Doc, Ph.D)

Asst Director – Gen AI, EY India
Postdoctoral Scholar, Lund University

Invited Speakers & Keynote Faculty

ICSEMI 2026 warmly welcomes scholars and professionals from all stages of the academic and professional spectrum. The conference is particularly well-suited for:

- Faculty Members and Academic Researchers
- Ph.D. Scholars and Doctoral Candidates
- Postgraduate (M.Tech./M.E./M.Sc.) Students
- Undergraduate Engineering Students with Research Interests
- Nuclear Scientists and Engineers
- Electrical, Electronics, Instrumentation, and Communication Engineers
- Artificial Intelligence, Machine Learning, IoT, and Robotics Researchers
- Control Systems, Automation, and Embedded Systems Professionals
- Cybersecurity and Critical Infrastructure Experts
- Power Systems, Smart Grid, and Renewable Energy Researchers
- Industry Professionals, R&D Scientists, and Technology Innovators
- Scientists from National Laboratories and Research Organizations
- Professionals from Nuclear Power Plants and Energy Utilities

Important Dates

Milestone	Date
Last Date of Abstract Submission	15 August 2026
Full-Length Paper Submission	15 September 2026
Review Completion	15 October 2026
Notification of Acceptance	25 October 2026
Camera-Ready Submission	10 November 2026
Last Date of Registration	15 November 2026
Conference Dates	4 – 5 December 2026

Registration Fees

Registration fees are structured to ensure broad accessibility across academic and professional categories:

Student	Faculty / Academician	Industry Professional
₹1000	₹2,000	₹3,000

Payment Information

Bank Transfer (RTGS / NEFT / Internet Banking)

Bank Name	Institute	Account No.	IFSC Code
AU Small Finance Bank	Rungta College of Engineering & Technology, Bhilai	1981233322019219	AUBL0002333

Payment Gateway: <https://fees.rungta.ac.in/>

Payments can also be made online via the Institute Payment Gateway using Debit Card / Credit Card / Internet Banking / BHIM UPI / Paytm Wallet. Kindly mention the ICSEMI 2026 registration fee purpose clearly in the reference/remarks column.

About the Organizing Institutions

Rungta College of Engineering & Technology

Rungta College of Engineering & Technology, Bhilai, is a constituent institution of Rungta International Skills University dedicated to engineering education, applied research and industry-oriented skill development. Staffed by experienced faculty and supported by well-equipped laboratories, the College cultivates an academic environment that bridges engineering theory with practical, industry-relevant application

Research priorities at the College align with global engineering imperatives — including sustainable energy systems, advanced materials, additive manufacturing, structural and geotechnical engineering, and computational and AI-driven engineering solutions. Through interdisciplinary collaboration and research-driven pedagogy, the College aims to produce engineering professionals equipped to address the evolving challenges of sustainable infrastructure and industrial development.

Rungta International Skills University (RISU)

Rungta International Skills University is a NAAC “A” Grade prominent institution in central India distinguished by its unwavering commitment to skill-oriented education and global competency development. Founded on a vision to close the chasm between academic theory and industrial practice, the University integrates hands-on training, rigorous scholarship, and innovation-driven learning across its diverse academic programmes.

RISU's ecosystem actively supports entrepreneurship, technological advancement, and international academic partnerships, positioning it as a fertile ground for future-ready professionals. Its modern infrastructure, diverse student community, and collaborative culture make it an ideal host for a global conference of this stature.

About Bhilai – Conference City

Bhilai is a prominent industrial metropolis in the state of Chhattisgarh, celebrated for its strategic importance, urban vitality, and multicultural character. The city is internationally recognized as the home of the Bhilai Steel Plant, one of India's largest and most historic steel manufacturing facilities – a fitting backdrop for a conference on sustainable energy, materials and infrastructure.

Beyond its industrial identity, Bhilai offers a harmonious blend of contemporary infrastructure, verdant green spaces, and rich cultural diversity, creating a welcoming environment for academic and professional gatherings. The city is well-connected through road and rail networks, ensuring effortless accessibility from major metropolitan centres, including Raipur (the state capital, approximately 30 km away).

Nearby Attractions & Points of Interest

- **Maitri Bagh Zoo & Garden** – A beloved recreational park featuring a zoo, musical fountain, and serene garden spaces, perfect for a post-conference leisure outing.
- **Dhamdha Fort** – A historically significant fortification that reflects the architectural and cultural heritage of the region, offering visitors a tangible connection to the past.
- **Tandula Dam** – A tranquil water reservoir renowned for its picturesque vistas, especially breathtaking during sunrise and sunset.
- **Nandan Van Zoo & Safari, Raipur** – Located near the state capital, this wildlife reserve delivers an immersive safari experience amidst diverse flora and fauna.
- **Sirpur Heritage Site** – An important archaeological complex encompassing ancient temples and Buddhist relics, drawing historians and culture enthusiasts from around the world.

Contact Information



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