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ICORETECH 2026

3RD INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN ENGINEERING & TECHNOLOGY (ICORETECH 2026)

17TH AND 18TH OF JULY 2026

Theme: *Sustainable Technologies and Sciences for a Better Future*

www.icoretech.in icoretech@lbscek.ac.in

Venue: LBS COLLEGE OF ENGINEERING KASARAGOD

About the Institution

Lal Bahadur Shastri (LBS) College of Engineering, Kasaragod was established in the year 1993 under the auspicious aegis of LBS Centre for Science & Technology, a Government of Kerala Undertaking. The college is the first cost sharing Engineering College in Government sector established by Government of Kerala. The college offers eight undergraduate programs and a postgraduate program in Computer Science and Information Security, which is affiliated to APJ Abdul Kalam Technological University Kerala. The college is also an approved Research Centre for Ph. D program of APJKTU. The college campus is spread over an area of 52 acres of serene land, 14km away from Kasaragod railway station and 72 km away from the Mangalore international airport.

Vision of the Institute

To become a paragon Institution for pursuance of Education and Research in Engineering and Technology.

Mission of the Institute

- ***Impart finest quality Technical Education and Training***
- ***Nurture a vision of Sustainable development***
- ***Bequeath it to the next generation of professionals***

About the Conference

International Conference on Recent Advancements in Engineering and Technology (ICORETech) is a prestigious biennial event organized by the LBS College of Engineering, Kasaragod whose third edition is scheduled in July 17-18, 2026. The conference aims at providing a common platform to researchers, industry personnel, academicians, students and participating professionals to interact and discuss about the advances in the various areas of Engineering and Technology. Academicians and industry experts from renowned institutions across the globe will be sharing their ideas and innovations. The conference will focus on today's technical challenges,

research updates and breakthrough innovations that are shaping the future relevant areas of technology.

ORGANIZING COMMITTEE

CHIEF CONFERENCE PATRON

Dr. M. Abdul Rahiman

Director, LBS Centre For Science & Technology

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Principal, LBS College of Engineering, Kasaragod

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Assistant Professor, Department of Electrical and Electronics Engineering

CO-CONVENOR

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Associate Professor, Department of Electronics and Communication Engineering

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Mr. Sudheesh Sureshkumar, Partner, Mobilize AI x Energy VC, Newyork

Dr. Jineeth Joseph, Senior Research Specialist GKN Aerospace, Netherlands

CALL FOR PAPERS

The aim of this conference is to bring together academicians, researchers and professionals from diverse fields of engineering and technology to a common platform in order to facilitate exchange of knowledge and experience. The conference will provide an arena for showcasing of novel research findings and practical experiences in various engineering domains.

We invite original research articles in the following tracks and not limited to:

Proposed SDG-Aligned Tracks for ICORETECH

Track 1: Sustainable Computing & AI for Social Impact (CSE/IT)

- Climate modelling, pollution prediction, disaster early-warning systems
- AI for agriculture, healthcare, and smart governance
- Responsible, fair, and ethical AI
- Low-carbon algorithms and green data centres
- Energy-aware cloud, edge, and IoT architectures
- Sustainable software engineering practices
- IoT solutions for water, waste, mobility, and environmental monitoring
- Urban analytics and intelligent infrastructure
- Smart transportation and traffic optimization
- Secure IoT, smart grids, and digital public infrastructure

- Blockchain for transparent governance and supply chains
- Privacy-preserving data technologies
- Accessibility-driven software and assistive technologies
- EdTech solutions for inclusive and equitable education
- ICT tools supporting marginalized communities

Track 2: Sustainable Infrastructure & Resilient Built Environment (CE)

- Low-carbon and green building materials
- Recycled aggregates, geopolymer concrete
- Life-cycle assessment in construction
- Disaster-resistant structural design
- Risk assessment and vulnerability mapping
- Resilient transportation systems
- Sustainable water management systems
- Urban stormwater planning and flood mitigation
- Wastewater treatment technologies
- Hydrological modelling for climate adaptation
- Intelligent transport systems
- Urban planning using GIS and remote sensing
- Sustainable housing and land-use planning
- Green transportation systems
- Pavement sustainability and recycling technologies
- Transport network optimization
- Ground improvement using eco-friendly methods
- Geotechnical hazard assessment
- Sustainable foundation engineering
- Solid waste and construction demolition waste management
- Zero-waste construction approaches

- Resource recovery technologies

Track 3: Sustainable Mechanical Systems & Advanced Manufacturing (ME)

- Energy-efficient manufacturing processes
- Additive manufacturing for sustainable production
- Smart factories and IoT-enabled process optimization
- Lean and green manufacturing systems
- Solar thermal systems, biomass, wind energy technologies
- Energy harvesting and storage systems
- Thermodynamic analysis of renewable systems
- Hybrid energy systems for sustainable development
- Low-carbon heating and cooling systems
- Waste heat recovery technologies
- Sustainable refrigeration and HVAC innovations
- Lightweight and high-strength eco-friendly materials
- Smart materials and composites
- Materials for energy-efficient applications
- Electric and hybrid vehicle systems
- Energy-efficient powertrains
- Automotive emissions reduction techniques
- Vehicle safety, aerodynamics, and performance optimization
- Energy-efficient robots
- Industrial automation for resource optimization
- Human–robot collaboration in green industries
- Design for sustainability
- Condition monitoring and predictive maintenance
- Life-cycle assessment of mechanical systems

Track 4: Sustainable Electronic Systems & Intelligent Communication Technologies (ECE)

- Low-power VLSI design and optimization
- Energy-efficient semiconductor devices
- Sustainable embedded system design
- E-waste reduction and circular electronics strategies
- 5G/6G communication for smart and sustainable cities
- IoT and sensor networks for environmental monitoring
- UAV and satellite communication for disaster management
- Cognitive radio and spectrum efficiency techniques
- AI/ML applications in wireless communication
- Intelligent signal processing for healthcare, agriculture & smart grids
- Robotics and automation for sustainability
- Power electronics for solar, wind, and hybrid systems
- Smart grids and smart metering
- Energy storage management systems
- Sensors for water quality, air quality & climate monitoring
- Wearable and biomedical devices for public health
- IoT-based sustainable infrastructure monitoring
- Secure IoT architectures
- Cyberphysical system reliability
- Energy-efficient ICT infrastructures
- AI-enabled chip design
- Neuromorphic and quantum-inspired circuits
- Green semiconductor fabrication trends

Track 5: Sustainable Power Systems, Smart Grids & E-Mobility Technologies (EEE)

- Solar PV, wind, biomass, and hybrid renewable systems
- Grid integration of renewables
- Energy storage systems and battery management

- Smart metering and demand response techniques
- AI/ML applications in power system optimization
- Microgrids and community-based energy solutions
- SCADA and automation in sustainable power distribution
- EV motor drives and power electronics
- Charging infrastructure & vehicle-to-grid (V2G) technologies
- EV battery technologies and lifecycle management
- High-efficiency converters and inverters
- Power conditioning systems for renewables
- Wide bandgap devices (SiC/GaN) for energy-efficient electronics
- PLC, DCS, and IoT for energy-efficient industries
- Intelligent control systems for optimizing energy usage
- Automation for water, waste, and environmental sustainability
- Grid reliability and protection schemes
- Fault diagnosis using AI/ML techniques
- Sustainable design practices in electrical installations
- Electrification for rural development
- Clean energy solutions for public infrastructures
- Smart buildings and energy-efficient campus models

Track 6: Sustainable Materials, Mathematical Modelling & Green Scientific Innovations (Applied Science))

- Mathematical modelling of climate change and environmental systems
- Optimisation techniques for energy, transportation, and resource management
- Data-driven models using machine learning for environmental prediction
- Computational methods for sustainable engineering solutions
- Development of eco-friendly materials and biodegradable polymers
- Nanomaterials for clean energy and environmental remediation

- Sustainable construction materials and composites
- Materials for energy storage: batteries, supercapacitors, and hydrogen storage
- Photovoltaic devices and solar cell physics
- Thermoelectric materials and energy harvesting technologies
- Quantum materials for sustainability
- Plasma applications in energy and environmental processes
- Water purification and pollution control using chemical methods
- Catalysis in green chemistry and sustainable industrial processes
- Waste-to-energy chemical technologies
- Sensors and chemical detection systems for environmental monitoring
- Computational fluid dynamics for environmental and climate studies
- Quantum simulations and modelling for new sustainable materials
- Statistical physics and stochastic processes in ecology and sustainability
- AI/ML models for chemical and physical system prediction
- Science-based strategies for circular economy
- Carbon capture, utilization, and storage (CCUS) technologies
- Smart materials for environmental applications

PAPER SUBMISSION LINK

https://cmt3.research.microsoft.com/ICORETECH2026/Submission/Index

IMPORTANT DATES

Date	Tracker
02.05.2026	Last Date of Paper Submission
25.05.2026	Paper Acceptance Notification
15.06.2026	Camera Ready Paper
29.06.2026	Paper Registration
17.07.2026 & 18.07.2026	Conference Dates

ACCOUNT DETAILS

Central Bank of India, Kasaragod

Account Name: nCORETech

Account No: 3424310158

IFSC CODE: CBIN0284151

First Author Registration Fees is mandatory for all the papers.

REGISTRATION FEE DETAILS

Faculty	Rs. 1000.00	USD 100
PhD and PG Students	Rs. 750.00	USD 50
Undergraduate Students	Rs. 500.00	USD 30