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International Conference on
Recent Advances in Engineering and Technology

12th & 13th June 2026
LJK University, India



Organized by
LJ Institute of Engineering and Technology,
LJK University, India

In Association with
IFERP Academy




The International Conference on Recent Advances in Engineering and Technology 2026 (ICRAET-2026)

Organized by LJK University
In Association with IFERP Academy

Post Conference Report

ICRAET-2026, Contributed to Following SDGs



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Conference Summary

Conference Name: The International Conference on Recent Advances in Engineering and Technology 2026 (ICRAET-2026)

Date: 12th & 13th June 2026

Venue: Ahmedabad, India

Conference Theme: Recent Advances in Engineering and Technology for Sustainable, Intelligent and Data-Driven Solutions

Organized by LJK University

In Association with IFERP Academy

No. of Organizing Committee Members: 41

No. of Editors/Reviewers: 5

No. of Speakers: 5

No. of Abstracts Received: 300+

No. of Participants Registered: 200+

No. of Virtual Attendees: 157

1.1 Conference Overview

ICRAET-2026 is an international platform bringing together academicians, researchers, industry professionals, engineers, technology experts, and innovators to explore recent advancements in engineering and technology. The conference promotes research excellence, knowledge exchange, interdisciplinary collaboration, and innovative solutions to contemporary technological challenges.

The two-day programme was designed to provide a balanced combination of keynote addresses, technical talks, parallel paper presentation sessions, refreshment and networking breaks, and a valedictory session. The agenda enabled participants to engage with contemporary research developments while also providing opportunities for interdisciplinary knowledge exchange and professional networking.

1.2 Conference Theme

“Recent Advances in Engineering and Technology for Sustainable, Intelligent and Data-Driven Solutions”

The theme focuses on leveraging emerging technologies, intelligent systems, data-driven approaches, and sustainable engineering practices to develop efficient, resilient, and environmentally responsible solutions.

1.3 Objectives & Scope of the Conference

The conference aims to promote interdisciplinary collaboration, showcase innovative engineering and technological solutions, encourage academia-industry-government partnerships, and align research with sustainable development goals. Its scope includes artificial intelligence, machine learning, big data analytics, IoT, advanced computing, sustainable engineering, intelligent systems, and other emerging technologies that contribute to sustainable and inclusive growth.

1.4 The Inaugural

The inaugural ceremony of ICRAET-2026 formally commenced on the day 1 of the conference - 12th June at 9:30 AM with the traditional Lamp Lighting and Saraswati Vandana, symbolising the beginning of the conference and the pursuit of knowledge. This was followed by the Welcome Address by Ms. Ami Patel, setting the context for the two-day conference and its focus on recent advances in engineering and technology.

The ceremony continued with the felicitation of distinguished dignitaries with a Tulsi Pot denoting the initiative to promote sustainable growth, followed by the Chief Guest Address by



Shree Somya Sarkar and the Inaugural Speech by the Vice Chancellor, Prof. Dinesh Awasthi. The session concluded with a Note of Appreciation, formally marking the successful commencement of the conference and setting the stage for the academic and technical sessions that followed.

1.5 Day 1 Programme Highlights

The first day commenced with registration and participant engagement activities, followed by technical talks and keynote sessions. The programme subsequently progressed into parallel technical paper presentation tracks, allowing researchers to present their work across multiple engineering and technology domains.

The Day 1 technical programme consisted of **14 parallel technical tracks with 126 scheduled research presentations**. The sessions covered the following major areas:

- **Advanced Engineering Systems**
- **Artificial Intelligence and Data-Driven Engineering**
- **Advanced Manufacturing and Industry 4.0**
- **Computational Engineering and Applied Mathematics**
- **Sustainable and Green Engineering Technologies**
- **Emerging Technologies in Engineering**

The **Artificial Intelligence and Data-Driven Engineering** track featured extensive research on machine learning, deep learning, explainable AI, cybersecurity, blockchain, federated learning, intelligent healthcare systems, autonomous systems, data analytics, and AI-enabled applications.

The **Advanced Engineering Systems** sessions addressed areas including quantum-dot cellular automata, advanced interconnects, wireless communication, autonomous vehicles, satellite communication, aerospace engineering, and intelligent engineering systems.

The **Advanced Manufacturing and Industry 4.0** track explored additive manufacturing, smart factories, nanomaterials, advanced coatings, composite materials, engine technologies, and sustainable manufacturing practices.

The **Computational Engineering and Applied Mathematics** sessions highlighted computational intelligence, finite element analysis, structural integrity, mathematical modelling, financial forecasting, cybersecurity analytics, graph neural networks, and computational approaches to complex engineering problems.

The **Sustainable and Green Engineering Technologies** track focused on renewable energy, sustainable construction materials, solar technologies, battery thermal management, environmental modelling, sustainable pavements, agricultural waste utilisation, green concrete, and energy-efficient engineering solutions.

The **Emerging Technologies in Engineering** sessions featured research on IoT, smart systems, robotics, deep learning, intelligent transportation, smart parking, blockchain, smart homes, electric vehicle infrastructure, digital twins, and AI-enabled monitoring systems.

1.6 Day 2 Programme Highlights

The second day continued with technical talks and a comprehensive programme of parallel research presentations. The Day 2 agenda included **13 parallel technical tracks with 121 scheduled research presentations**.

The technical sessions further expanded the conference's multidisciplinary scope, with research presentations focusing on:

- Quantum computing and fault-tolerant digital systems
- Advanced wireless communication and 6G technologies
- Artificial intelligence and deep learning applications
- Blockchain and cybersecurity
- Autonomous vehicles and intelligent transportation
- Industry 4.0 and smart manufacturing
- Computational modelling and simulation
- Sustainable construction and infrastructure
- Renewable energy and energy management
- Environmental sustainability and climate-responsive engineering
- IoT-based monitoring and automation
- Smart healthcare and assistive technologies
- Electric vehicle systems and smart charging infrastructure
- Digital twins and intelligent automotive systems
- AI-powered wildlife and ecosystem monitoring

The technical presentations demonstrated the broad application of emerging technologies to real-world challenges across engineering, healthcare, transportation, manufacturing, environmental sustainability, energy, communication, and smart systems.

1.7 Keynote Sessions

The Keynote and Expert Sessions at ICRAET-2026 provided participants with valuable insights into emerging developments, technological innovations, and contemporary challenges in engineering and technology. The sessions featured expert contributions from Dr. Kiran Trivedi, Prof. (Dr.) Chander Prakash, Prof. Nithesh Naik, Dr. Unnati Shah, and Dr. Maulin Shah, enriching the conference with diverse academic and professional perspectives.

These sessions complemented the technical paper presentations and supported the conference's focus on artificial intelligence, data-driven engineering, advanced manufacturing, Industry 4.0, sustainable technologies, computational engineering, and emerging technological solutions. The contributions of the distinguished speakers and the organising and scientific committees strengthened interdisciplinary knowledge exchange and encouraged participants to explore innovative and sustainable approaches to future engineering challenges.

Keynote Speaker



Dr Kiran Trivedi

Head of Discipline and Associate Professor
University of Wollongong India Campus

Invited Keynote Speakers



Prof. (Dr.) Chander Prakash
Pro-Vice Chancellor (Research, Ranking &
Accreditation)
Geeta University, Haryana, India & Southern Federal
University, Taganrog, Russia



Dr. Maulin P. Shah
Adjunct Professor
Department of Research Impact and Outcome,
Research and Development Cell | Lovely
Professional University, Phagwara, Punjab, India



Dr. Unnati Shah
Associate Professor
Department of Computer Science, Utica University,
USA



Prof. Nithesh Naik
CTO, Curious TechLabs Private Limited
Manipal Academy of Higher Education, Manipal,
India

Agenda

Day 1 – June 12th 2026

Time Slot	Activities
08:30 AM to 09:20 AM	Registration - High Tea
09:30 AM to 10:30 AM	Inaugural Ceremony
10:30 AM to 11:15 AM	Keynote session by Dr Kiran Trivedi
11:15 AM to 11:30 AM	Refreshment
11:30 AM to 12:15 PM	Technical Talk by Prof.(Dr.) Chander Prakash
12:15 PM to 01:00 PM	Technical Talk by Prof. Nithesh Naik
01:00 PM to 02:00 PM	Lunch Break
02:00 PM to 05:00 PM	Parallel Paper Presentation Tracks

Inaugural Programme

Time Slot	Activities
09:30 AM to 09:40 AM	Lamp Lighting & Saraswati Vandana
09:40 AM to 09:50 AM	Welcome Address by Ms. Ami Patel
09:50 AM to 09:55 AM	Felicitation of Dignitaries
09:55 AM to 10:10 AM	Chief Guest Address by Shree Somya Sarkar
10:10 AM to 10:15 AM	Inaugural Speech by Vice Chancellor - Prof. Dinesh Awasthi
10:15 AM to 10:25 AM	Note of Appreciation

Agenda

Day 2 - June 13th 2026

Time Slot	Activities
08:30 AM to 09:00 AM	High Tea
09:00 AM to 09:45 AM	Technical Talk by Dr. Unnati Shah
09:45 AM to 10:30 AM	Technical Talk by Dr. Maulin Shah
10:30 AM to 10:45 AM	Refreshment
10:45 AM to 01:30 PM	Parallel Paper Presentation Tracks
01:30 PM to 2:30 PM	Lunch Break
03:00 PM to 04:00 PM	Valedictory Session
02:00 PM to 05:00 PM	Parallel Paper Presentation Tracks

Best Paper Award Winners:

PHYSICAL	VIRTUAL
Track: Advanced Engineering Systems Paper ID: IFERP2026_1805_ICRAET-2026_24375 Author Name: Dr. Urmi Shah University: LJK University Paper Title: <i>Modeling and Optimization of Advanced Mixed Carbon Nanotube Interconnects</i>	Track: AI & Data-Driven Engineering Paper ID: IFERP2026_2104_ICRAET-2026_23308 Author Name: Dr. Monika University: U.I.E.T, Panjab University Paper Title: <i>Benchmarking Deep Learning Architectures for Short - Term Electricity Demand Forecasting in India</i>
Track: Computational Engineering & Applied Mathematics Author Name: Payal Jainik Desai University: LJK University Paper Title: <i>A one-dimensional finite element model unsteady state to study the effect of advection on calcium dynamic in Cardiac Myocyte Cell involving Leak and Pump, comparison with experimental data.</i>	Track: Emerging Technologies in Engineering Author Name: Eyad Almartini University: United Arab Emirates University (UAEU) Paper Title: <i>Effect Of Spherical Projection Transformation On The Mechanical Performance Of Truncated Icosahedron Cellular Structures</i>
Track: Advanced Engineering Systems Paper ID: IFERP2026_1805_ICRAET-2026_24389 Author Name: Vishal Kuril University: LJK University Paper Title: <i>Plant-Based Nanomaterials Derived From Tulsi Leaves For Food Product Concentration Via Forward Osmosis</i>	Track: Emerging Technologies in Engineering Author Name: Paladi Gopikrishna University: ISBR Business School Paper Title: <i>Intelligent Automotive PLM: Integrating AI, Digital Twins And Smart Manufacturing For Next-generation Industry 4.0 Vehicle Development</i>

Valedictory Ceremony

The conference concluded with a heartfelt Vote of Thanks delivered on behalf of the organizing committee. Gratitude was extended to the Guest of Honour, keynote speakers, session chairs, researchers, academicians, industry experts, and delegates for their valuable contributions and active participation throughout the conference. Special appreciation was expressed to the organizing institutions, sponsors, reviewers, volunteers, and technical support teams whose dedication ensured the smooth execution of the event. The organizing committee also acknowledged the efforts of all authors and presenters for sharing their research and insights.

The session ended with best wishes for continued academic excellence, future collaborations, and success in advancing research and innovation in engineering and technology.

General Comments & Feedback

1. Most participants rated the conference sessions as valuable to extremely valuable, reflecting the relevance, quality, and effectiveness of the content presented.
2. Participants appreciated the well-structured and organized conduct of the conference, particularly the smooth registration process, efficient coordination, and adherence to the scheduled programme.
3. Attendees highly valued the opportunity to explore emerging technologies, innovative research developments, and future trends across various industries.
4. The quality of the speakers, mentors, session chairs, and expert-led discussions received positive appreciation from the participants.
5. Several participants highlighted the conference as a professional platform for networking, knowledge exchange, and the presentation of research findings.
6. Effective time management during sessions and presentations was widely appreciated, with participants acknowledging the punctual and systematic execution of the programme.
7. Participants recommended improving communication regarding post-conference activities, particularly certificate distribution, publication updates, and indexing-related information.
8. Some respondents suggested providing reviewer comments for both accepted and rejected papers to enhance transparency and add greater academic value to the review process.
9. One major drawback experienced by the team in conference execution was the delayed and disoriented method of recording the participants data which created confusions in the successful completion and finalization of the agenda and follow ups with the participants.
10. Overall, the feedback reflected a high level of participant satisfaction, with attendees encouraging the organizers to maintain the same standards of professionalism, organization, and academic excellence in future conferences.

Organizing Committee

The successful execution of ICRAET-2026 was supported by a dedicated organizing team comprising academic leaders, faculty members, researchers, and professionals from LJ University and associated institutions. As part of the Campus Partnership Programme, the conference received valuable coordination and leadership from the Steering Committee Convenors, Dr. Meghna M. Parikh, Assistant Professor, Department of Mathematics, L.J. Institute of Engineering and Technology (LJIET), LJ University, and Ms. Ami Patel, Assistant Professor, Electronics & Communication Engineering, LJIET, LJ University. Their active involvement contributed significantly to the effective planning and coordination of the conference.

Special appreciation is extended to Mr. Vismay Shah, Assistant Professor, LJIET, LJ University, for his irreplaceable support in technical coordination and prompt assistance throughout all conference sessions. His consistent involvement, responsiveness, and effective coordination played a crucial role in ensuring the smooth and successful execution of the technical programme. The collective efforts of the organizing team and campus partnership representatives significantly contributed to the overall success of ICRAET-2026.

Glimpses







Proceedings Book: <https://www.iferp.in/past-conference/icraet-2026.php>