HIGHLIGHTS

15th INTERNATIONAL CONFERENCE ON RECENT TRENDS IN ENGINEERING AND TECHNOLOGY

CERTIFICATE

This is to certify that the report titled "15th International Conference on Recent Challenges in Engineering and Technology", held on 22nd & 23rd April 2026, is a genuine and authentic record of the conference attended/conducted.

This report has been prepared based on the proceedings, sessions, and activities carried out during the conference. The contents of the report are true to the best of our knowledge and accurately reflect the events and outcomes of the conference.

This certificate is issued for academic and documentation purposes.

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ACKNOWLEDGEMENT

We express our sincere gratitude to all those who contributed to the successful organization and completion of the **15th International Conference on Recent Challenges in Engineering and Technology (ICRCET-2026)**, held on **22nd & 23rd April 2026**.

We extend our heartfelt thanks to the institutional leadership for their unwavering support, visionary guidance, and continuous encouragement throughout the planning and execution of the conference. Their commitment to promoting academic excellence and research initiatives played a pivotal role in the successful conduct of this international event.

We place on record our deep appreciation to the conference organizers and coordinators for their dedicated efforts, meticulous planning, and efficient management. Their attention to detail, teamwork, and commitment ensured the smooth execution of all sessions, both in-person and virtual, thereby making the event highly impactful and well-coordinated.

We are immensely grateful to the distinguished keynote speakers, invited speakers, session chairs, and resource persons, whose valuable insights, scholarly presentations, and expert guidance significantly enriched the intellectual quality of the conference. Their contributions provided participants with deep understanding of emerging trends, innovative research directions, and practical applications in engineering and technology.

We would also like to acknowledge the efforts of the technical and review committees for their rigorous evaluation of research papers, which ensured the high academic standards and quality of the conference proceedings. Their role was instrumental in maintaining the credibility and scholarly value of the event.

Our sincere appreciation is extended to the sponsors and supporting organizations for their generous support and collaboration. Their contributions greatly facilitated the successful organization of the conference and helped in achieving its objectives. We also extend our thanks to the volunteers and student coordinators, whose enthusiastic involvement, dedication, and teamwork contributed significantly to the seamless management of the event.

Finally, we express our gratitude to all the participants, researchers, academicians, and industry delegates for their active participation, valuable presentations, and meaningful discussions. Their engagement and contributions were the cornerstone of the conference's success and made it a truly enriching academic experience.

EXECUTIVE SUMMARY

The **15th International Conference on Recent Challenges in Engineering and Technology** served as a dynamic platform for academicians, researchers, industry experts, and students to exchange knowledge, present innovative ideas, and discuss emerging trends in engineering and technological advancements. The conference brought together participants from diverse disciplines to address contemporary challenges and explore interdisciplinary solutions in a rapidly evolving global landscape.

The **primary purpose of the conference** was to foster intellectual collaboration, encourage research dissemination, and bridge the gap between academia and industry. It aimed to provide a forum for presenting cutting-edge research, promoting innovation, and facilitating discussions on practical applications of theoretical concepts. The event also sought to inspire young researchers and students to contribute to technological advancements and sustainable development.

The conference focused on several **key themes**, including but not limited to:

- Artificial Intelligence and Machine Learning
- Cybersecurity and Data Privacy
- Sustainable Engineering and Green Technologies
- Internet of Things (IoT) and Smart Systems
- Advanced Communication Technologies
- Emerging Trends in Computer Science and Information Technology

Each session was carefully curated to address critical issues, highlight recent research findings, and encourage meaningful dialogue among participants. Distinguished keynote speakers and session chairs shared valuable insights into current technological challenges and future opportunities.

The **major outcomes of the conference** were highly impactful. Participants gained exposure to innovative research methodologies, practical solutions, and emerging technologies. Furthermore, selected research papers contributed to academic enrichment and will support future studies and developments in the respective fields.

In conclusion, the conference successfully achieved its objectives by promoting academic excellence, encouraging innovation, and strengthening the research ecosystem. It provided a significant contribution to the advancement of engineering and technology while fostering a collaborative environment for future growth and development.

1. INTRODUCTION

The **15th International Conference on Recent Challenges in Engineering and Technology** was organized with the objective of addressing the rapidly evolving landscape of modern engineering and technological innovations. In recent years, the convergence of advanced technologies such as Artificial Intelligence, Machine Learning, Internet of Things (IoT), and sustainable engineering practices has significantly transformed industries and academic research. This conference was conceptualized against this backdrop to provide a comprehensive platform for discussing the challenges, opportunities, and future directions in these critical domains.

The **background and importance of the conference topic** lie in the growing need to develop innovative, efficient, and sustainable solutions to real-world problems. With increasing global demands, technological disruptions, and environmental concerns, engineering and technology play a pivotal role in shaping the future. The conference highlighted the necessity of interdisciplinary approaches to tackle complex challenges such as cybersecurity threats, data privacy issues, energy efficiency, and smart infrastructure development. By bringing together experts from diverse fields, the event emphasized the importance of collaborative efforts in driving technological progress and societal development.

1.1 The **primary objectives of the conference** were to:

- Provide a platform for researchers, academicians, and industry professionals to present and discuss their latest research findings.
- Encourage the exchange of innovative ideas and promote interdisciplinary collaboration.
- Bridge the gap between theoretical research and practical industrial applications.
- Identify emerging trends, challenges, and opportunities in engineering and technology.
- Foster a culture of research, innovation, and continuous learning among students and professionals.

The **relevance of the conference to academia and industry** is highly significant. For academia, it offered opportunities to disseminate research, gain insights into current developments, and enhance teaching methodologies through exposure to real-world applications. For industry, the conference provided access to cutting-edge research, innovative solutions, and potential collaborations with academic institutions. It also facilitated discussions on the practical implementation of emerging technologies, skill development, and addressing industry-specific challenges. Overall, the conference acted as a bridge connecting academic knowledge with industrial needs, thereby contributing to technological advancement and economic growth.

2. ABOUT THE ORGANIZING INSTITUTION

The organizing institution of the **15th International Conference on Recent Challenges in Engineering and Technology** is **Primus School of Management Studies**, a reputed center of higher education committed to excellence in teaching, research, and innovation. Established with the vision of nurturing technically competent and socially responsible professionals, **Primus School of Management Studies** has consistently contributed to the advancement of education and interdisciplinary research at both national and international levels. With modern infrastructure, well-equipped facilities, and a team of qualified faculty members, the institution provides an enabling environment for academic growth and professional development.

The institution offers a range of academic programs with a focus on management studies, emerging technologies, and interdisciplinary learning. It emphasizes outcome-based education, industry collaboration, and research-driven approaches to ensure that students are well-prepared to meet global challenges. Regular organization of conferences, seminars, workshops, and technical events reflects its commitment to knowledge dissemination and academic excellence.

2.1 Vision

To be a globally recognized institution for excellence in education, research, and innovation, fostering ethical values and contributing to sustainable societal development.

2.2 Mission

- To provide quality education through a dynamic and industry-relevant curriculum.
- To promote research, innovation, and entrepreneurship among students and faculty.
- To develop competent professionals with strong ethical and social values.
- To collaborate with industry and academic institutions for knowledge exchange and skill development.
- To contribute to sustainable development through academic excellence and community engagement.

2.3 Achievements

Primus School of Management Studies has achieved significant milestones in academics, research, and industry collaboration. The institution has consistently produced capable graduates who excel in professional careers and higher education. Faculty members actively contribute to research through publications, conferences, and collaborative projects.

The institution has consistently demonstrated a strong commitment to building meaningful connections with both industry and academic bodies, thereby creating a dynamic ecosystem that

supports the overall development of students and faculty. Through strategic collaborations with leading organizations, the institution facilitates internships, industrial training programs, live projects, and placement opportunities, enabling students to gain practical exposure and industry-relevant skills. These initiatives bridge the gap between theoretical learning and real-world application, preparing students to meet the evolving demands of the professional world with confidence and competence.

In addition to industry engagement, the institution actively promotes academic excellence by fostering partnerships with reputed universities, research organizations, and professional bodies. These collaborations have led to the successful organization of numerous national and international conferences, workshops, seminars, and faculty development programs, which serve as vibrant platforms for knowledge sharing, intellectual exchange, and innovation. Such events bring together academicians, researchers, industry experts, and students, encouraging interdisciplinary discussions and the exploration of emerging trends in management and technology.

The institution also places a strong emphasis on research and innovation, motivating both faculty and students to engage in scholarly activities, publish research papers, and participate in academic forums. By providing access to resources, mentorship, and collaborative opportunities, the institution nurtures a research-oriented culture that contributes to the advancement of knowledge and the development of innovative solutions to contemporary challenges.

Recognition received through academic achievements, institutional initiatives, and contributions to the field of education stands as a testament to the institution's dedication to quality and continuous improvement. The consistent efforts in maintaining high academic standards, adopting modern teaching methodologies, and integrating technology into the learning process have further strengthened its reputation as a forward-thinking educational institution.Moreover, the institution is deeply committed to the holistic development of students, focusing not only on academic excellence but also on personality development, leadership skills, ethical values, and social responsibility.

Overall, Primus School of Management Studies stands as a center of academic excellence, fostering a culture of innovation, research, and continuous learning. With its strong industry linkages, academic collaborations, and student-centric approach, the institution continues to make significant contributions to higher education and remains dedicated to shaping future leaders equipped with knowledge, skills, and values.

3. CONFERENCE DETAILS

3.1 Title of the Conference

15th International Conference on Recent Challenges in Engineering and Technology (ICRCET-2026)

3.2 Theme / Sub-Themes

The central theme of the conference focused on addressing contemporary challenges and advancements in engineering and technology. The key sub-themes included:

- Artificial Intelligence and Machine Learning
- Cybersecurity and Data Privacy
- Internet of Things (IoT) and Smart Systems
- Sustainable Engineering and Green Technologies
- Advanced Communication and Networking Technologies
- Data Science and Big Data Analytics
- Emerging Trends in Computer Science and Information Technology

3.3 Date and Duration

The conference was conducted over a period of **two days** 22nd April 2026 & 23rd April 2026, allowing comprehensive coverage of keynote sessions, paper presentations, and technical discussions.

3.4 Mode (Online/Offline/Hybrid)

The conference was organized in **Hybrid Mode**, enabling both physical participation at the venue and virtual attendance through online platforms. This approach ensured wider accessibility and participation from national and international delegates.

3.5 Organizing Committee Details

The conference was successfully organized under the guidance and leadership of the following committee members:

- **Chief Patron:** Head of the Institution / Principal, Primus School of Management Studies
- **Patron(s):** Senior Academic Leaders / Trustees of the Institution
- **Conference Chair:** Senior Faculty / Director / Principal
- **Conference Co-Chair:** Experienced Faculty Members
- **Organizing Secretary:** Faculty Coordinator responsible for overall execution
- **Technical Program Committee:** Experts and academicians overseeing paper review and technical sessions

- **Advisory Committee:** Eminent academicians, industry experts, and researchers providing strategic guidance
- **Session Chairs:** Distinguished speakers and faculty members managing individual sessions
- **Organizing Team:** Faculty members, staff, and student volunteers contributing to logistics and coordination

The collective efforts of the organizing committee ensured the smooth execution and success of the conference.

4. OBJECTIVES OF THE CONFERENCE

The **15th International Conference on Recent Challenges in Engineering and Technology (ICRCET-2026)** was organized with the following key objectives:

1. **To facilitate knowledge sharing** among academicians, researchers, and industry professionals through presentation and discussion of innovative ideas and research findings.
2. **To promote research and innovation** by encouraging exploration of emerging technologies and solutions to contemporary challenges in engineering and technology.
3. **To foster collaboration and networking** between academia and industry for interdisciplinary research and long-term partnerships.
4. **To bridge the gap between theory and practice** by aligning academic research with real-world industrial applications and needs.
5. **To support skill development and professional growth** of students and researchers through exposure to expert insights, feedback, and technological advancements.

Overall, the conference aimed to create a collaborative and intellectually stimulating environment that supports innovation, research excellence, and the holistic development of participants in the field of engineering and technology.

5. CALL FOR PAPERS AND PARTICIPATION

The call for papers for the **15th International Conference on Recent Challenges in Engineering and Technology (ICRCET-2026)** was widely circulated to invite high-quality research contributions from academicians, researchers, industry professionals, and students. The invitation was disseminated through multiple channels, including the official conference website, academic mailing lists, professional networks, social media platforms, and collaborations with reputed institutions and research bodies. The call emphasized original and unpublished research aligned with the conference themes and sub-themes, encouraging interdisciplinary contributions.

In response to the call, the conference received an encouraging number of research paper submissions from participants across various institutions and regions, reflecting strong academic and research interest in the conference domain. A total of **2,000+ submissions** were received, covering diverse topics in engineering and technology.

All submitted papers underwent a rigorous peer-review process conducted by the Technical Program Committee and subject experts to ensure quality, originality, and relevance. Based on the review outcomes, a total of **850 papers were accepted** for presentation and inclusion in the conference proceedings.

The structured review and selection process ensured that only high-quality research contributions were presented, thereby maintaining the academic integrity and standards of the conference.

6. INAUGURAL SESSION

The inaugural session of the **15th International Conference on Recent Challenges in Engineering and Technology (ICRCET-2026)** was conducted on **22nd April 2026** in an organized and formal manner, marking the official commencement of the conference. The session began with a warm welcome by the moderator, followed by the presence of distinguished guests, keynote speakers, academicians, and participants from various institutions.

6.1 Details of Inauguration

The inaugural ceremony was held from **09:20 AM to 09:50 AM**, which included welcome addresses, guest speeches, and the formal release of the conference proceedings. The session was structured to set the tone for the conference by emphasizing the importance of research, innovation, and collaboration in engineering and technology. A significant highlight of the inauguration was the

release of the conference proceeding book, symbolizing the academic contributions made by researchers and participants.

6.2 Chief Guest(s) and Keynote Speaker(s)

The inaugural session was graced by eminent dignitaries and distinguished speakers:

- **Guest of Honour:**
  - Mr. Siddth Kumar Chhajer, Founder & Managing Director, IFERP, Technoarete Group, India
  - Prof. Nirmala M, Dean & Director, BCU School of Management Studies, Bengaluru City University, India
- **Keynote Speakers :**
  - Prof. Dr. Ramachandra C G, Presidency University, India
  - Prof. Dr. Nandini Prasad K S, Dayananda Sagar Academy of Technology and Management, India
  - Prof. Dr. Balaji Prabhu BV, Malnad College of Engineering, India
  - Dr. Kavitha A. Karkera, Nagarjuna Degree College, India

These speakers are renowned experts in their respective domains and contributed valuable insights into emerging technological trends and research directions.

6.3 Summary of Speeches

The inaugural session featured insightful speeches by the distinguished guests and speakers.

- **Mr. Siddth Kumar Chhajer** highlighted the importance of global research collaboration, innovation ecosystems, and the role of international conferences in fostering academic excellence and industry interaction.
- **Prof. Nirmala M** emphasized the significance of interdisciplinary research, quality education, and the need for institutions to adapt to rapidly evolving technological advancements.
- The keynote speakers collectively focused on emerging trends in engineering and technology, including advancements in artificial intelligence, sustainable engineering practices, and the integration of research with real-world applications.

Overall, the inaugural session successfully set a scholarly and collaborative tone for the conference, inspiring participants and laying a strong foundation for the technical sessions that followed.

7. TECHNICAL SESSIONS

7.1 Technical Session A (In-Person)

- **Session Title/Theme:** Emerging Technologies in AI, Materials, and Sustainable Engineering
- **Session Chair:** Dr. Murali Matcha, Dr. Ashwini Mandale Jadhav, Megha H.R, Dr. Pallavi Padhy
- **Number of Papers Presented:** 18

7.1.1 Key Highlights and Discussions:

The session focused on interdisciplinary advancements spanning artificial intelligence, material science, and sustainable engineering solutions. Notable presentations included AI-driven healthcare analytics, quantum networking, renewable energy optimization, and advanced manufacturing techniques. Significant discussions revolved around the integration of machine learning in real-time systems, sustainability in material engineering (e.g., geopolymer binders and Inconel alloys), and emerging applications such as autonomous vehicles and biosensing technologies. The session emphasized practical implementation challenges, scalability, and future research directions.

7.2 Technical Session B (In-Person)

- **Session Title/Theme:** AI Applications, Business Analytics, and Sustainable Management
- **Session Chair:** Dr. Koushick Venkatesh, Dr. Sandeep Kumar R, Dr. M. A. Anusuya, Dr. Smitha Rajagopal
- **Number of Papers Presented:** 12

7.2.1 Key Highlights and Discussions:

This session highlighted the application of artificial intelligence in business, finance, healthcare, and cybersecurity domains. Key topics included AI-based climate forecasting, digital marketing strategies, behavioral finance, IoT-based industrial systems, and cybersecurity frameworks. Discussions centered on the role of AI in decision-making, ethical considerations in digital transformation, and the importance of sustainability in organizational practices. The session also explored emerging trends such as AI-driven physiotherapy, vulnerability detection systems, and smart healthcare applications.

7.3 Virtual Technical Sessions

7.3.1 Technical Session A (Virtual: A1, A2, A3)

- **Session Title/Theme:** Artificial Intelligence, IoT, and Smart Systems
- **Session Chair:** Assigned session chairs as per conference committee
- **Number of Papers Presented:** 60

7.3.1.1 Key Highlights and Discussions:

The session covered a wide spectrum of AI and IoT-based innovations including predictive maintenance, healthcare diagnostics, smart agriculture, and cybersecurity systems. Key discussions emphasized deep learning, explainable AI, and real-time data analytics. Several papers addressed practical implementations such as smart wearable devices, intelligent transportation systems, and AI-powered interview and assessment platforms. The session demonstrated strong research contributions in scalable AI solutions and human-centric system design.

7.3.2 Technical Session B (Virtual: B1, B2, B3)

- **Session Title/Theme:** Machine Learning, Cybersecurity, and Data Analytics
- **Session Chair:** Assigned session chairs as per conference committee
- **Number of Papers Presented:** 60

7.3.2.1 Key Highlights and Discussions:

This track focused on machine learning applications in cybersecurity, healthcare, and smart systems. Major themes included intrusion detection, federated learning, fake news detection, and predictive analytics. Discussions highlighted challenges in data privacy, model interpretability, and real-time deployment. Innovative works included AI-based hiring platforms, smart surveillance systems, and healthcare analytics tools.

7.3.3 Technical Session C (Virtual: C1, C2, C3)

- **Session Title/Theme:** Smart Computing, Networking, and Sustainable Systems
- **Session Chair:** Assigned session chairs as per conference committee
- **Number of Papers Presented:** 60

7.3.3.1 Key Highlights and Discussions:

The session emphasized smart computing technologies, including cloud computing, social network analysis, and renewable energy systems. Presentations explored applications in healthcare, agriculture, and smart cities. Key discussions revolved around AI-driven diagnostics, cybersecurity

frameworks, and sustainable engineering practices. The session showcased innovative approaches to integrating AI with real-world problem-solving.

7.3.4 Technical Session D (Virtual: D1, D2, D3)

- **Session Title/Theme:** Advanced AI, Healthcare Systems, and Communication Technologies
- **Session Chair:** Assigned session chairs as per conference committee
- **Number of Papers Presented:** 60

7.3.4.1 Key Highlights and Discussions:

This session covered advanced AI applications in healthcare, communication systems, and cybersecurity. Topics included deep learning for disease prediction, blockchain-based systems, and intelligent decision support systems. Discussions focused on reliability, ethical AI, and deployment challenges in critical domains like healthcare and smart infrastructure.

7.3.5 Technical Session E (Virtual: E1, E2, E3)

- **Session Title/Theme:** Emerging Technologies in AI, IoT, and Sustainable Development
- **Session Chair:** Assigned session chairs as per conference committee
- **Number of Papers Presented:** 60

7.3.5.1 Key Highlights and Discussions:

The session explored emerging technologies in AI, IoT, and sustainable engineering. Key topics included smart agriculture, healthcare monitoring systems, cybersecurity frameworks, and energy optimization. Discussions highlighted innovation in real-time systems, integration of AI with IoT, and sustainability-driven research solutions.

7.3.6 Technical Session F (Virtual: F1, F2, F3)

- **Session Title/Theme:** Intelligent Systems, Automation, and Future Technologies
- **Session Chair:** Assigned session chairs as per conference committee
- **Number of Papers Presented:** 60

7.3.6.1 Key Highlights and Discussions:

This session focused on intelligent automation, AI-driven platforms, and future-ready technologies. Topics included agentic AI systems, smart mobility, computer vision applications, and automated decision-making systems. Discussions emphasized innovation, interdisciplinary research, and the future scope of AI in transforming industries.

8. KEYNOTE / GUEST LECTURES

The conference featured a distinguished lineup of global experts from academia and industry, including representatives from India, Malaysia, and Oman. Keynote sessions addressed advancements in Artificial Intelligence, sustainable engineering, IoT applications, and digital transformation across various sectors.

8.1 Name and Designation of Speakers

The conference featured eminent keynote and invited speakers from academia and industry across the globe:

- **Prof. Dr. Nagendra Kumar Sharma** – Chandra Shekhar Azad University of Agriculture & Technology, India
- **Assoc. Prof. Dr. Abdul Halim Abdullah** – Universiti Teknologi MARA, Malaysia
- **Prof. Dr. Ramachandra C G** – Presidency University, India
- **Prof. Dr. J. Sadhik Basha** – International Maritime College Oman, National University of Science & Technology (IMCO), Oman
- **Prof. Dr. Balaji Prabhu B V** – Malnad College of Engineering, India
- **Dr. Kavitha A. Karkera** – Nagarjuna Degree College, India
- **Dr. Rakesh Kumar Donthi** – Malla Reddy University, India
- **Prof. Dr. S. V. A. R. Sastry** – Harcourt Butler Technical University, India

8.2 Topics Covered

The keynote and guest lectures addressed a wide range of contemporary and emerging themes in engineering, technology, and management, including:

- **Advancements in Artificial Intelligence and Machine Learning**
- **Sustainable Engineering Practices and Green Technologies**
- **Smart Systems and IoT Applications**
- **Cybersecurity and Data Protection Techniques**
- **Emerging Trends in Renewable Energy Systems**
- **Digital Transformation and Industry 4.0**
- **Applications of AI in Healthcare, Agriculture, and Business Analytics**
- **Research Innovations and Interdisciplinary Approaches in Engineering**

8.3 Key Takeaways

- Emphasis on the growing importance of **AI-driven solutions** in solving real-world challenges across multiple domains.
- Recognition of **sustainability and green engineering** as critical priorities for future technological development.
- Insights into **Industry 4.0 technologies**, including IoT, automation, and intelligent systems. Encouragement for researchers to adopt **interdisciplinary and application-oriented research approaches**.

9. WORKSHOPS / SPECIAL SESSIONS

The International Conference featured special sessions through expert talks and interactive discussions, offering insights into emerging research areas and technological advancements across engineering, technology, and management. Led by distinguished academicians and researchers, these sessions emphasized interdisciplinary learning and innovations such as AI, IoT, cybersecurity, and sustainable technologies.

9.1 Description

As part of the International Conference, special sessions were organized in the form of expert talks and domain-focused interactive sessions rather than standalone workshops. These sessions were designed to provide participants with deeper insights into emerging research areas, recent technological advancements, and practical applications across engineering, technology, and management domains. The special sessions included invited talks and expert lectures delivered by distinguished academicians and researchers from reputed institutions across India and abroad. These sessions emphasized interdisciplinary learning, real-world problem-solving, and exposure to cutting-edge innovations such as Artificial Intelligence, IoT, cybersecurity, sustainable technologies, and smart systems.

In addition to strengthening the academic depth of the conference, these special sessions created a dynamic platform for meaningful interaction between participants and subject matter experts. Attendees were actively encouraged to engage in discussions, pose questions, and exchange ideas, fostering a collaborative and intellectually stimulating learning environment. Such interactions not only helped in clarifying complex concepts but also inspired participants to explore new research directions and innovative approaches within their respective fields.

9.2 Resource Persons

The sessions were conducted by renowned experts and session speakers, including:

- **Prof. Dr. Budi Nurani Ruchjana** – Padjadjaran University, Indonesia
- **Prof. Dr. Murad Mohammed Al-Nashmi** – Arab Academy for Management, Banking and Financial Sciences, Yemen
- **Prof. Dr. Beaulah Soundarabai P** – CHRIST (Deemed to be University), India
- **Dr. Karthikeyan Dinesh Kumar** – University of Jyväskylä, Finland
- **Prof. Dr. Nandini Prasad K S** – Dayananda Sagar Academy of Technology and Management, India
- **Dr. V. Harini** – Vardhaman College of Engineering, India
- **Dr. Sandeep Kumar R** – Primus School of Management Studies, Bangalore, India

9.3 Outcomes

- Enhanced understanding of **emerging technologies** and their practical applications in various domains.
- Exposure to **global research perspectives** and current trends in engineering and management.
- Improved awareness of **interdisciplinary approaches** to solving complex real-world problems.
- Strengthened **research and innovation capabilities** among participants.
- Opportunities for **academic networking and collaboration** with experts and researchers.
- Motivation for participants to engage in **high-quality research and publications**.

10. PARTICIPANT DETAILS

The conference witnessed strong academic engagement, with papers presented across in-person and virtual sessions, indicating at least 310 confirmed presenters. Overall participation was significantly higher, including co-authors, keynote speakers, session chairs, and delegates.

10.1 Number of Participants

Based on the conference agenda and paper presentation schedule, a total of **310 papers were presented** across in-person and virtual technical sessions. Since each paper corresponds to at least one registered author/presenter, the conference had **a minimum of 310 active participants (paper presenters)**.

Including co-authors, attendees, session chairs, keynote speakers, and other delegates, the **total participation is significantly higher**, but **310 is the exact count of confirmed presenting participants** derived from the agenda.

10.2 Institutions Represented

The agenda provides **author names but does not explicitly mention institutional affiliations for each paper**. Therefore, an exact count of institutions **cannot be precisely calculated from the available document**.

However, based on:

- International keynote and session speakers
- Diverse author names and topics
- Global representation in sessions

It is evident that **a large number of national and international institutions participated**, indicating **broad academic and research diversity**.

10.3 Categories of Participants

Based on the nature of contributors and session roles, participants were categorized as:

- **Students:** UG, PG, and PhD scholars presenting research papers.
- **Faculty Members:** Professors and academicians serving as authors, speakers, and session chairs.
- **Researchers:** Independent and institutional researchers contributing to advanced research work.
- **Industry Professionals:** Experts participating in applied research areas such as AI, IoT, cybersecurity, and smart systems.

11. OUTCOMES AND IMPACT

The conference provided significant learning opportunities for participants across diverse domains. Attendees gained exposure to recent advancements in **Artificial Intelligence, Machine Learning, IoT, cybersecurity, and sustainable engineering practices**.

11.1 Key Learnings

The sessions enhanced understanding of **real-world problem-solving approaches**, interdisciplinary applications, and the importance of integrating theory with practice. Participants also developed insights into **emerging research methodologies, tools, and technologies**, enabling them to strengthen their academic and professional competencies.

11.2 Research Contributions

The conference facilitated the presentation of a large number of research papers, contributing to the advancement of knowledge in engineering, technology, and management. The research work covered innovative areas such as **AI-driven healthcare systems, smart infrastructure, renewable energy optimization, cybersecurity frameworks, and data analytics**. Many papers demonstrated practical applicability and addressed current societal and industrial challenges.

11.3 Networking and Collaboration Outcomes

The event provided a strong platform for **interaction among academicians, researchers, industry experts, and students** from various institutions and countries. Participants engaged in meaningful discussions during technical sessions, keynote lectures, and networking breaks. These interactions fostered **academic collaborations, research partnerships, and knowledge exchange**.

11.4 Future Scope

The conference highlighted several directions for future research and development. There is significant scope for further exploration in areas such as **explainable AI, sustainable technologies, smart cities, healthcare innovations, and secure digital systems**. The discussions emphasized the need for **interdisciplinary research, industry-academia collaboration, and real-time implementation of innovative solutions**. Future conferences can build upon these outcomes by encouraging **joint research projects, funded initiatives, patents, and technology transfer activities**, thereby contributing to societal and technological advancement.

12. CONCLUSION

Overall Success of the Conference

The International Conference was successfully conducted, achieving its objectives of promoting research, innovation, and knowledge sharing across various domains of engineering, technology, and management. The conference witnessed active participation from a large number of researchers, academicians, students, and industry professionals from both national and international institutions.

The well-structured program, comprising keynote lectures, technical sessions, and special sessions, provided a comprehensive platform for the presentation and discussion of contemporary research. The high volume of quality paper presentations, along with insightful keynote addresses, reflects the academic rigor and relevance of the conference. The hybrid mode of execution further enhanced accessibility and global participation, contributing to its overall success.

Closing Remarks

The conference culminated in a well-organized and impactful valedictory session that marked the successful conclusion of the event. This closing ceremony served as a platform to formally acknowledge and appreciate the dedicated efforts and invaluable contributions of all stakeholders, including the organizing committee, advisory members, keynote and invited speakers, session chairs, reviewers, presenters, and participants. The session reflected on the journey of the conference, highlighting its smooth execution, the diversity and quality of research contributions, and the vibrant intellectual engagement witnessed throughout the technical sessions and special interactions. The conference not only facilitated the effective dissemination of scholarly work but also acted as a catalyst for building strong academic and professional networks. It enabled meaningful dialogue between researchers, academicians, and industry experts, thereby fostering collaboration, mentorship, and the exchange of innovative ideas across disciplines and geographies.

In their concluding remarks, the organizers expressed sincere gratitude to all contributors and reiterated their commitment to sustaining and expanding such initiatives in the future. They highlighted their vision of creating a dynamic and inclusive platform that continually promotes research excellence, innovation, and industry–academia collaboration. Building on the success and positive feedback from this edition, the conference has established a strong foundation for future endeavors, with aspirations to scale new heights in terms of participation, global outreach, and academic impact.


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For Attending ICRCET 2026
A heartfelt thank you to all speakers, researchers, attendees, and academic partner for your valuable contributions and active participation. Your insights and discussions made this event truly remarkable!
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