# ICFAI®
## UNIVERSITY

# The ICFAI University, Jaipur



# International Conference
## on
# Futuristic Aspects in Science & Engineering

Organised by

## IcfaiTech
**Faculty of Science & Technology (FST)**

# President's Message

**Prof. (Dr.) H. P. Singh, VSM**
President, ICFAI University, Jaipur

It gives me immense pleasure to reflect on the resounding success of the International Conference on Futuristic Aspects in Science & Engineering, recently hosted by IcfaiTech at The ICFAI University. The energy and engagement surrounding this event, both in-person and virtually, were truly remarkable, drawing a diverse and enthusiastic group of stakeholders.

This conference was more than just a gathering; it was a dynamic exploration of the future. We successfully showcased the most exciting advancements and emerging trends poised to reshape the landscape of science and engineering. Participants gained invaluable insights into cutting-edge technologies and their potential to revolutionize various sectors. I'm particularly proud of the conference's role in highlighting groundbreaking research, fostering discussions around new methodologies, and ultimately, shaping the future trajectory of these critical disciplines.

A key highlight was the conference's ability to bring together representatives from academia, industry, and research institutions. The collaborative spirit was palpable, with lively discussions and networking opportunities sparking new connections and partnerships. The exchange of ideas, both in formal sessions and informal settings, was truly invigorating, addressing both the challenges and the immense opportunities that lie ahead.

My sincere thanks go out to everyone who made this conference possible. We are deeply grateful for the support and encouragement we received from our stakeholders, which validated the significance of this undertaking. Finally, and most importantly, I thank our exceptional contributors, speakers, and participants. Their expertise, passion, and active engagement were the driving force behind the conference's success, making it a truly enriching and informative experience for all. I am confident that the seeds of innovation planted during this conference will continue to flourish and contribute to the advancement of science and engineering for years to come.

# Registrar's Message

I'm pleased to celebrate the success of the International Conference on Futuristic Aspects in Science & Engineering. This event showcased cutting-edge advancements and emerging trends, fostering valuable dialogue between academia, industry, and research institutions. The conference highlighted innovative research and offered insights into the future of these critical fields. My sincere thanks to all organizers, contributors, and participants for making this such an enriching experience. I'm confident the conference's impact will be significant and long-lasting.

**Prof. (Dr.) R. Nesamoorthy**
Registrar, ICFAI University, Jaipur

# Conference Chair's Message



**Prof. A. K. Saini**
Conference Chair
Director – IcfaiTech, The ICFAI University, Jaipur

I am very proud to present to you the outcome and results of the International Conference on Futuristic Aspects in Science & Engineering, organized by IcfaiTech of The ICFAI University. This event attracted a significant number of participants, both in person and virtually. It was a landmark event that allowed us to actively engage with a wide range of stakeholders.

The main objective of the Conference was to showcase cutting-edge advancements and explore emerging trends in science and engineering. The sessions were designed to provide participants with an in-depth understanding of futuristic technologies and their potential impact on various sectors. We aimed to highlight innovative research, explore new methodologies, and discuss the future direction of these critical fields.

Additionally, the Conference served as a platform for representatives from academia, industry, and research institutions to interact, network, and build collaborations. The various sessions facilitated discussions on current challenges and opportunities in science and engineering, fostering a vibrant exchange of ideas. The two days were filled with engaging discussions and debates, both during the formal sessions and in informal settings.

We are particularly grateful for the support we received for this event. We appreciate the endorsement of the conference's objectives and the encouragement we received from various stakeholders.

We would also like to express our sincere thanks to our host institution for providing the necessary resources and support. And last, but certainly not least, we wish to thank wholeheartedly all contributors, speakers, and participants for making this event an informative and enriching experience.
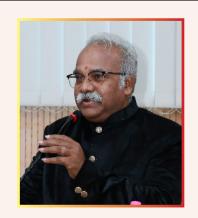
# Summary & Highlights

## 1. Opening of Conference



**Prof. (Dr.) H.P. Singh**, VSM, President, The ICFAI University, Jaipur, delivered a compelling inaugural address, setting the stage for the International Conference on Futuristic Aspects in Science & Engineering. His speech emphasized the critical importance of exploring and embracing futuristic trends in these dynamic fields. He highlighted the rapid pace of technological advancement and the need for continuous learning and adaptation to remain at the forefront of innovation. Prof. Singh underscored the conference's objective of providing a platform for experts, researchers, and students to exchange ideas, share cutting-edge research, and collaborate on shaping the future of science and engineering. He stressed the significance of interdisciplinary collaboration and the role of education in preparing future generations to tackle the complex challenges and opportunities that lie ahead. His address served as an inspiring call to action, encouraging all participants to actively engage in the conference and contribute to the advancement of science and engineering.

## 2. Keynote Speech: Demystifying the Publication Process: Insights for Researchers



**Dr. Mahesh Bundele's** keynote speech, "Demystifying the Publication Process: Insights for Researchers," offered valuable guidance and practical advice to researchers navigating the often-complex world of academic publishing. He shed light on the various stages of the publication process, from manuscript preparation and journal selection to peer review and acceptance. Dr. Bundele provided insights into best practices for writing clear and impactful research papers, emphasizing the importance of a well-defined research question, rigorous methodology, and compelling presentation of results. He also discussed strategies for identifying suitable journals for specific research areas, highlighting key factors such as journal scope, impact factor, and target audience. Furthermore, Dr. Bundele addressed the peer review process, offering advice on how to respond effectively to reviewer comments and improve manuscript quality. His keynote served as a valuable resource for researchers at all stages of their careers, providing them with the knowledge and tools necessary to successfully publish their work and contribute to the advancement of their respective fields.

### 3. Invited Talk: The Synergy of Modern Engineering: From Materials to Machine Learning and Healthcare



**Prof. Nithesh Naik's** invited talk focused on the powerful synergy between materials science, machine learning, and healthcare. He highlighted materials science as foundational, enabling advancements from basic materials to atomic design. He then positioned machine learning as the catalyst, providing tools for materials discovery and analysis. Prof. Naik emphasized healthcare as the prime beneficiary, citing personalized medicine, smart implants, drug discovery, and advanced diagnostics as key examples. He acknowledged challenges like algorithm development and ethical considerations but remained optimistic, emphasizing interdisciplinary collaboration as crucial for realizing the full potential of this convergence. His talk provided a compelling overview of this synergistic relationship and its transformative potential for healthcare.

### 4. Invited Talk: Exploring the Landscape of Mathematical Analysis: From Special Functions to Mathematical Modeling



**Dr. Sunil D. Purohit's** talk explored the interconnectedness of several key mathematical areas. He highlighted Fractional Calculus for its nuanced descriptions of real-world phenomena, Special Functions for their crucial role in solving equations, and Integral Transforms for simplifying complex problems. He also emphasized q-Hypergeometric Functions and Geometric Function Theory for their applications in various fields. Finally, he underscored the importance of Mathematical Modeling, demonstrating how these tools can be used to create models of real-world systems. Dr. Purohit effectively conveyed the significance and diverse applications of these mathematical areas.

### 5. Invited Talk: Exploring the Landscape of Mathematical Analysis: From Special Functions to Mathematical Modeling



**Prof. Jugal Kishore Prajapat's** talk explored the interconnectedness of key areas in complex analysis. He highlighted Geometric Function Theory's focus on geometric properties of analytic functions, showcasing concepts like univalence and convexity. He then discussed Complex Inequalities and their crucial role in bounding function behavior. Finally, he introduced Fractional Calculus, explaining its power in generalizing classical calculus. Prof. Prajapat skillfully demonstrated the connections between these fields, revealing how insights from one area inform the others. His talk provided a concise yet insightful overview of these important areas of complex analysis.

### 6. Invited Talk: Intelligent and Secure Networks: Integrating Machine Learning, Sensor Networks, and Operating Systems



**Dr. Nitika Vats Doohan's** talk explored the convergence of machine learning, sensor networks, operating systems, and network security. She emphasized the role of sensor networks in data collection, the importance of operating systems in resource management, and the transformative potential of machine learning in intelligent decision-making. Dr. Doohan highlighted how machine learning enhances network security by detecting anomalies and predicting threats. Her talk provided a concise overview of the integration of these technologies for building intelligent and secure network ecosystems.

### 7. Keynote Speech: The Convergence of Intelligent Technologies: Shaping the Future of Computing



**Dr. Rahul Banerjee's** keynote speech, "The Convergence of Intelligent Technologies: Shaping the Future of Computing," explored the transformative impact of integrating various intelligent technologies. He emphasized the increasing interconnectedness of fields like AI, IoT, cloud computing, and advanced networking, and how their convergence is driving a new era of computing. Dr. Banerjee highlighted the potential of these combined technologies to create intelligent systems that can learn, adapt, and solve complex problems. He discussed the implications for various sectors, from healthcare and transportation to manufacturing and education, and touched upon the ethical considerations that must be addressed as these technologies become more pervasive. His talk provided a compelling vision of the future of computing, emphasizing the importance of interdisciplinary collaboration and innovation to fully realize the potential of this convergence.

### 8. Invited Talk: Engineering a Sustainable Future: The Role of Technology in Societal Transformation



**Dr. Balakrishna S. Maddodi's** invited talk, "Engineering a Sustainable Future: The Role of Technology in Societal Transformation," focused on the crucial role of technology in achieving sustainability and driving positive societal change. He emphasized that technology is not just a tool but a key enabler for building a sustainable future. Dr. Maddodi discussed how technological advancements can address critical challenges like climate change, resource depletion, and social inequality. He explored various technological solutions, from renewable energy and smart agriculture to circular economy models and sustainable infrastructure. He also stressed the importance of responsible innovation and ethical considerations in developing and deploying these technologies. Dr. Maddodi highlighted the need for interdisciplinary collaboration and a holistic approach to leverage technology effectively for creating a more sustainable and equitable society.

## 9. Invited Talk: Smart Embedded Systems as the Foundation for IoT and CPS

**Dr. Abhishek Sharma's** talk, "Smart Embedded Systems as the Foundation for IoT and CPS," emphasized the crucial role of smart embedded systems in enabling the functionality and intelligence of the Internet of Things (IoT) and Cyber-Physical Systems (CPS). He explained how these systems, with their combination of processing power, sensing capabilities, and connectivity, form the fundamental building blocks upon which IoT and CPS are built. Dr. Sharma discussed the key characteristics of smart embedded systems, including their resource constraints, real-time requirements, and integration with the physical world. He highlighted how advancements in embedded hardware and software are driving innovation in IoT and CPS applications, from smart homes and wearable devices to industrial automation and critical infrastructure. He further explored the challenges and opportunities in developing and deploying these systems, including issues related to security, scalability, and interoperability. Dr. Sharma's talk provided a clear understanding of why smart embedded systems are essential for the continued growth and development of the connected world.

## 10. Valedictory Keynote: Building a Foundation for Lifelong Learning: Agility, Participation, and Quality in Education

**Prof. Sandeep Sancheti's** valedictory keynote, "Building a Foundation for Lifelong Learning: Agility, Participation, and Quality in Education," emphasized the critical importance of these three pillars in preparing individuals for a rapidly changing world. He argued that traditional educational models often fall short in fostering the skills needed for lifelong learning. Prof. Sancheti stressed that learning agility, the ability to adapt and acquire new knowledge quickly, is essential in today's dynamic environment. He highlighted the need for active student participation in the learning process, moving away from passive absorption of information to active engagement and collaboration. He also emphasized the importance of quality education, ensuring that learning outcomes are relevant, meaningful, and aligned with real-world needs. Prof. Sancheti discussed how educational institutions can cultivate these qualities by embracing innovative teaching methodologies, leveraging technology effectively, and fostering a culture of continuous learning. His keynote provided a compelling vision for the future of education, emphasizing the need to equip learners with the skills and mindset necessary to thrive in the 21st century and beyond.

## 11. Feedback by Participants:

The feedback from participants at this conference has been overwhelmingly positive, with many attendees expressing their appreciation for the excellent organization, smooth operations, and warm hospitality. Participants consistently highlighted the seamless flow of the event, from registration to session transitions, noting the efficient management and clear communication throughout. The hospitality extended by the organizers was also frequently praised, with attendees feeling welcomed and well-cared for. The quality of the papers and posters presented was another recurring theme in the feedback, with many participants commenting on the insightful research, innovative ideas, and engaging presentations. Overall, the participants expressed their satisfaction with the conference, citing its informative content, well-organized structure, and welcoming atmosphere.







## 12. Presidential Valedictory Address by Prof. (Dr.) H.P. Singh, VSM

Prof. (Dr.) H.P. Singh's (VSM) presidential valedictory address focused on key themes crucial for the future of education, particularly in science and engineering. He emphasized the importance of embracing futuristic aspects in these fields, encouraging exploration of emerging technologies and their potential impact on society. Prof. Singh stressed the need for lifelong learning, recognizing that knowledge and skills must be continuously updated in a rapidly evolving world. He highlighted the critical role of student involvement in the learning process, advocating for active participation, critical thinking, and collaborative learning. He also underscored the significance of learning outcomes, emphasizing the need for education to be relevant, practical, and aligned with real-world needs and career readiness. Prof. Singh's address provided a comprehensive vision for the future of education, urging institutions to prioritize innovation, student engagement, and outcome-oriented learning to prepare graduates for success in the 21st century.

### Conclusion:

In conclusion, this conference showcased a remarkable breadth and depth of research, drawing submissions from a diverse range of institutions worldwide. From an initial pool of over 355 research papers submitted by more than 130 universities and institutes, a rigorous review process resulted in the selection of 244 high-quality papers for presentation. These presentations spanned 11 tracks, delivered through both online and offline modalities, complemented by 41 poster presentations across two dedicated tracks. We are particularly proud of the caliber of institutions represented, including prestigious IITs, NIITs, NITTRs, and VITs, alongside esteemed universities such as IIT Roorkee, Amity University, Manipal University, SRM Institute of Science and Technology, Institute of Aeronautical Engineering, Hyderabad, and Chandigarh University. Our international reach was further extended by the participation of institutions like the University of Nottingham, Karolinska Institute (Sweden), and the University of Bisha (Saudi Arabia). Finally, we extend a special thank you to the enthusiastic students of ICFAI University, Jaipur, whose active involvement in both paper and poster presentations significantly enriched the conference and contributed to its overall success.

# GLIMPSES OF THE CONFERENCE
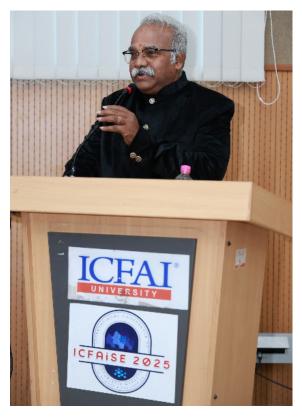
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    - Faculty Coordinator – **Dr. Rana Mukherji & Dr. Mukesh Kalla**

11. **Invited Talk:** Engineering a Sustainable Future: The Role of Technology in Societal Transformation
    - **Dr. Balakrishna S. Maddodi**, Member SEAC SEIAA Govt of India, MIT, Manipal Academy of Higher Education, Manipal, Karnataka, India
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    - Faculty Coordinator - Dr. R. K. Chaurasia

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    - **Dr. Abhishek Sharma,** Centre-Lead of LNM Centre Smart Technology (L-CST), The LNMIIT Jaipur.
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- Session Chair 1: **Prof. Swetha V**, Manipal Academy of Higher Education (MAHE), Manipal
- Session Chair 2: **Ms. Priya Kamath B.**, Manipal Academy of Higher Education (MAHE), Manipal
- Technical Session Chair 1: **Dr. Rupal Gupta**, Teerthanker Mahaveer University, Moradabad
- Technical Session Chair 2: **Dr. Princy Randhawa**, Manipal University Jaipur, Jaipur
- Session Coordinator: **Mr. Krishna Kumar Sharma**, IcfaiTech, The ICFAI University, Jaipur

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- Technical Session Chair 1: **Dr. Arvind Kumar Singh**, Seth Vishambhar Nath Institute of Engineering And Technology, Lucknow
- Technical Session Chair 2: **Dr. Vikash Kumar Mishra**, Galgotias University, Greater Noida
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- Pulkit Jaiman: Machine Learning Approaches to Speech Recognition: A Systematic Review
- Tarun Khandelwal: FUSIOMFORM Model for converting half body Image to full body Image
- Radha Patel: Importance of Bloodstain Pattern Analysis (BPA) in Forensic investigation with special reference to porous and non-porous surfaces
- RK Chaurasia: 5G-Compatible Dual-Band Microstrip Antenna

18. Valedictory Keynote: Building a Foundation for Lifelong Learning: Agility, Participation, and Quality in Education
- **Prof. Sandeep Sancheti**, Vice President of Research Relations & Academic Affairs at Elsevier (India).

**19. Feedback by Participants**

20. Best Paper Announcement / Award and Certificate Distribution

21. Presidential Address:
- Prof. (Dr.) H. P. Singh, VSM, President, The ICFAI University, Jaipur

22. Vote of Thanks:
- Dr. Subhash Sharma

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