



ICFAITECH NEWSLETTER

From the Director's Desk

March 2025

It gives me immense pleasure to share the outstanding achievements and vibrant activities that have marked this quarter at the Faculty of Science and Technology (FST), IFHE. Our faculty members continue to uphold the spirit of academic excellence and innovation through remarkable contributions to research, publishing, and professional engagement.

We proudly acknowledge the diverse and impactful research publications across departments. From advanced studies in nanofluid flow, tribology, and electric vehicle systems to pioneering works in artificial intelligence, blockchain, and smart healthcare, our faculty has published in prestigious journals and conferences, both nationally and internationally. Notably, Dr. Avinash Malladi's recognition with the Wiley Top Cited Article Award underscores the influence of our research on global platforms.

Several faculty members have taken up roles as reviewers and panelists, contributing to the broader academic ecosystem. Special mention to Dr. Asia Kumar Panigrahy and Dr. Avinash Malladi for their active participation in reviewing for reputed journals and conferences, reinforcing our commitment to academic service and integrity.

In the realm of professional development, faculty participation in industrial training programs, webinars, and faculty development initiatives reflects our proactive approach toward continuous learning. Dr. Malladi's Bioprinting training and the AI application seminar in diabetes risk classification by Dr. Manmadha Chary are examples of how we're blending research with practical insights.

The interdisciplinary spirit and collaboration are visible in the joint publications and projects, particularly from the Departments of Mechanical Engineering, CSE, and AI & DS. The synergy among our scholars is a key driver in addressing contemporary challenges with novel, cross-functional approaches.

We also celebrate the success of our students, who continue to shine in various domains. Congratulations to Cherukuri Gaurav Sushant, Bandaru Anusha, and P. Venkat Sai Siva Nihal Varma for receiving the Baroda Achievers Awards, which are a testament to their dedication and excellence.

A highlight of the quarter was Thirthi 2025, our annual cultural and technical fest. Hosted with great zeal, the three-day event was a vibrant amalgamation of talent, creativity, and community spirit. With enthusiastic participation across technical challenges, esports, arts, and physical events, the fest created a dynamic and inclusive platform for student expression. The presence of our esteemed Vice Chancellor and Registrar added gravitas to the event, and the concluding musical performances left us with unforgettable memories.

As we look forward to the coming months, I am confident that our collective pursuit of excellence will continue to bring pride and progress to our institution. Let us carry this momentum forward and keep fostering an environment where knowledge thrives, ideas flourish, and the community grows stronger.

Warm regards,

- Dr. K. L. Narayana
Director, IcfaiTech, Hyderabad

FACULTY ACHIEVEMENTS



Dr. Kesetti Ramesh, Senior Assistant Professor, Department of Mathematics, published a research article titled "Entropy Generation Analysis of Mixed Convective Eyring-Powell Nanofluid Flow with

Hall and Ion Slip Effects" in ZAMM (Journal of Applied Mathematics and Mechanics).

Dr. A. Manmadha Chary, Associate Professor, Department of Mechanical Engineering, published a research article titled "Effects of MoS₂ particles on tribological characteristics of ZA-27 alloy metal composites by ultrasonic-assisted stir-casting" in the journal "Proceedings of the Institution of Mechanical Engineers, Part E", in the month of March 2025.



Dr. A. Chandrasekhar, Associate Professor, Dept. of Mechanical Engineering, published a research paper titled "Dual-Stage Interleaved On-board Charger for Electric Vehicle using Snow Geese Algorithm," 2025 4th International Conference on Sentiment Analysis and Deep Learning (ICSADL), Bhimdatta, Nepal, 2025, pp. 628-633.

Dr. Dileep Kumar M, Assistant Professor, Dept. of Computer Science and Engineering, published a book chapter titled "Blockchain-Based Internet of Efficient Healthcare Data Sharing and Monitoring Things" in Springer



Dr. Avinash Malladi, Associate Professor, Dept. of Mechanical Engineering, published a book chapter titled "3D Modelling and Printing in Smart Transportation System" to the book "Driving Green Transportation System Through Artificial Intelligence and Automation" (Springer, 2025). This chapter explores the application of 3D modeling and printing technologies to enhance modern transportation systems' efficiency, personalization, and utility.



Dr. Avinash Malladi, Associate Professor, **Dr. KL Pavan Kishore**, Assistant Professor, and **Ms. Priyanka Chatteraj**, Assistant Professor, Dept. of Mechanical Engineering, published a research paper titled "Advancing Electric Mobility: A Comprehensive Review of Battery and Fuel Cell Technologies" in the Journal of Tianjin University Science and Technology.

Dr. KL Pavan Kishore, Assistant Professor, **Dr. Avinash Malladi**, Associate Professor, and **Ms. Priyanka Chatteraj**, Assistant Professor, Dept. of Mechanical Engineering, published a research paper titled "A Comprehensive Review on Acoustic Levitation Techniques and Applications" in the Journal of Tianjin University Science and Technology.

Dr. Dileep Kumar M, Assistant Professor, Dept. of Computer Science and Engineering, published a research paper titled "Artificial Intelligence-IoT- Enabled Blockchain Ecosystem for the Management of Agricultural Product Supply Chain" in the Journal of Innovations in Information and Decision Sciences.

R
E
S
E
A
R
C
H
P
U
B
L
I
C
A
T
I
O
N

FACULTY ACHIEVEMENTS



Dr. M. Priyadharshini, Assistant Professor, Department of Computer Science and Engineering, published a research paper titled “Application of Artificial Bee Colony Algorithm in Solving Second-Order Differential Equations” in the journal of SN Computer Science.

Dr. M. Priyadharshini, Assistant Professor, Department of Computer Science and Engineering, published a research paper titled “Ecosense: A Revolution in Urban Air Quality Forecasting for Smart Cities” in the Journal BMC Research Notes

Dr. M. Priyadharshini, Assistant Professor, Department of Computer Science and Engineering, published a research paper titled “A Novel Hybrid Framework for Efficient Higher Order ODE Solvers using Neural Networks and Block Methods” in Scientific Reports.

Dr. Rashmi Sahay, Senior Assistant Professor, Dept. of AI&DS, and **Dr. M. Priyadharshini**, Assistant Professor, Department of Computer Science and Engineering, published a research paper titled “Quantum-Enhanced Elliptic Curve Cryptography Implementations for IoT: A Comparative Analysis” in FogPlat'24: IEEE ANTS'24 3rd Workshop on Fog Computing based Security Frameworks for IoT Botnet Attack Prevention and Detection.

Dr. M. Priyadharshini, Assistant Professor, Department of Computer Science and Engineering, and **Dr. Rashmi Sahay**, Senior Assistant Professor, Dept. of AI&DS, published a research paper titled “AirTFT: A Novel Transformer-Based Approach for Air Quality Prediction” in FogPlat'24: IEEE ANTS'24 3rd Workshop on Fog Computing based Security Frameworks for IoT Botnet Attack Prevention and Detection.



Dr. M. Priyadharshini, Assistant Professor, Department of Computer Science and Engineering, and **Dr. Rashmi Sahay**, Senior Assistant Professor, Dept. of AI&DS, published a research paper titled “FGF-CNN: Federated Gradient Fusion For Convolutional Neural Networks – A Collaborative Learning Approach” in FogPlat'24: IEEE ANTS'24 3rd Workshop on Fog Computing based Security Frameworks for IoT Botnet Attack Prevention and Detection.



FACULTY ACHIEVEMENTS

Dr. Avinash Malladi, Associate Professor, Dept. of Mechanical Engineering, received the Wiley Top Cited Article award for research published in Advances in Polymer



Technology. This award recognizes the significant impact of his work on "Mechanical Interlocking Approaches to the Prediction of Mechanical and Tribological Behavior of Natural Fiber-Reinforced Polymer Hybrid Nanocomposites for Automotive Applications."

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, was a Reviewer for the Health Hackathon, jointly organized by VIT Bhopal



University, India, and Johns Hopkins University (JHU), USA, held on February 18-19, 2025.

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, reviewed a research paper for the International Conference on Computing for



Sustainability and Intelligent Future (Comp-SIF)

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, reviewed a research paper for Engineering Reports.



Dr. Hanyi Xie
Managing Editor

FACULTY ACHIEVEMENTS

Dr. Avinash Malladi, Associate Professor, Dept. of Mechanical Engineering, served as a Scientific Reports (Springer Nature) reviewer in 2025.



Dr. Avinash Malladi, Associate Professor, Dept. of Mechanical Engineering, reviewed research papers for the second International Conference on Signal Processing, Communication, Power, and Embedded Systems (SCOPES-2024). This service demonstrates engagement with the academic community and contribution to the dissemination of research.



Dr. Avinash Malladi, Associate Professor, Dept. of Mechanical Engineering completed his industrial training in Bioprinting at Next Big Innovation Labs (NBIL) from December 12, 2024, to January 7, 2025.



Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, received a SPOC Certificate of Appreciation from AICTE.



FACULTY ACHIEVEMENTS

Dr. M. Priyadarshini, Assistant Professor, Department of Computer Science and Engineering, presented a research paper titled "IoT Integrated Hybrid Deep Learning Framework for Real-Time Rose Leaf Disease Detection" in the International Conference on Computational Intelligence and Communication Technologies (ICCICT-2025) organised by the faculty of Computer Science in association with Analytics Society of India & ICT Academy held at Dr. NGP Arts & Science College, Coimbatore on 3rd January 2025.



Dr. M. Priyadarshini, Assistant Professor, Department of Computer Science and Engineering, presented a research paper titled "FedEnv-Net: Federated Neural Network for Decentralized Health Risk Prediction in Dynamic Urban Environments" at the "International Conference on Pervasive Computational Technologies



(ICPCT-2025)", organized by Department of Computer Science Engineering (AIML), GL Bajaj Institute of Technology and Management, Greater Noida, UP, India, held on 8th-9th February 2025.

Dr. M. Priyadarshini, Assistant Professor, Department of Computer Science and Engineering, presented a research paper titled "ADHERENT-Net: An Adaptive Health Risk Estimation Network for Real-Time Environmental Tracking" at the "International Conference on Pervasive Computational Technologies (ICPCT-2025)", organized by Department of Computer Science Engineering (AIML), GL Bajaj Institute of Technology and Management, Greater Noida, UP, India, held on 8th-9th February, 2025.



Dr. M. Priyadarshini, Assistant Professor, Department of Computer Science and Engineering, presented a research paper at ISDIA 2025 held on January 3-4 2025, organized by the School of Computer Science, University of Wallangang in Dubai.



FACULTY ACHIEVEMENTS

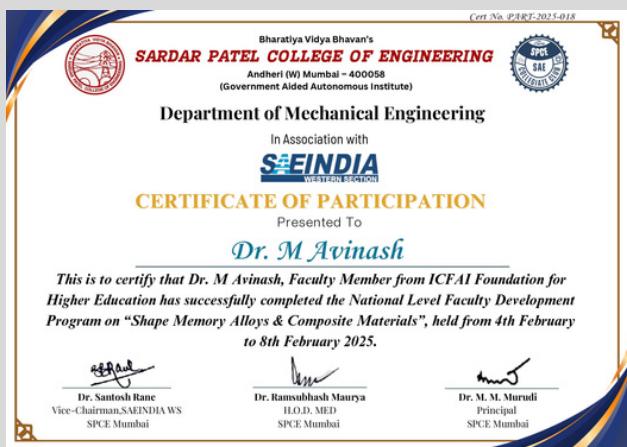
Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, participated in the "Deep Learning Computation and its Application" webinar by Prof. Seok-Bum Ko organized by IEEE-IISc VLSI Chapter on March 8, 2025.



Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, participated in a webinar on "Trading: A Cutting-Edge Vertical of ASIC/FPGA Application" by Dr. Saurabh Jain organized by IEEE-IISc VLSI Chapter on March 21, 2025.



Dr. Avinash Malladi, Associate Professor, Dept. of Mechanical Engineering, participated in a National Level Faculty Development Program on "Shape Memory Alloys & Composite Materials" at Sardar Patel College of Engineering (SPCE), Mumbai, from February 4-8, 2025. This program enhanced my knowledge and skills in advanced materials.



Dr. A. Manmadha Chary, Associate Professor, Department of Mechanical Engineering, gave a faculty seminar on "Comparative Analysis of Machine Learning Algorithms for Diabetes Risk Classification"



Faculty Seminar

FACULTY SEMINAR

STUDENT ACHIEVEMENTS



Cherukuri Gaurav Sushant
(21STUCHH010341)



Bandaru Anusha
(21STUCHH010667)



P Venkata Sai Siva Nihal Varma
(21STUCHH010068)

Cherukuri Gaurav Sushant bearing Enrollment No. 21STUCHH010341 (Academics), Bandaru Anusha (All Round Performer), and P Venkat Sai Siva Nihal Varma (Sports), received the Baroda Achievers Awards with a reward of Rs. 31,000 each.



Thrithi 2025 at FST – IFHE Annual Fest

Thrithi 2025, the annual fest of IFHE, was a vibrant three-day celebration held on March 20th, 21st, and 22nd, bringing together students from all five schools under IFHE. Hosted in collaboration with the Faculty of Science and Technology (FST), the fest highlighted creativity, competition, and cross-disciplinary collaboration.



At FST, the fest featured an exciting array of technical, cultural, gaming, and artistic events. Themed dress codes added to the festive vibe—casual wear on Day 1 and traditional attire on Day 2. Key attractions included:



- **Technical Challenges:** Data Heist and Escape Room were standout events, engaging students in cybersecurity puzzles and problem-solving.



- **Esports and Gaming:** Tournaments like BGMI, Mortal Kombat X, COD, and Cricket 19 drew large crowds and enthusiastic participation.
- **Literary and Creative Events:** Activities like Spell Bee, Mad Gab, Canvas Art, and Art Expo nurtured linguistic and artistic talents.
- **Interactive Spaces:** The Nail Board String Art, Flower Photo-Booth, and Bookmark Studio became popular visual and creative hotspots.
- **Mini-Games & Physical Activities:** Triathlon, Tug of War, and RC Games energized the campus with friendly competition.
- **Unique Experiences:** The Mock IPL Auction and Photo Scavenger Hunt added strategy and adventure to the fest.

The inauguration was graced by Vice Chancellor Dr. L.S. Ganesh and Registrar Dr. S. Vijaya Lakshmi, and the fest concluded with vibrant musical performances, including a live band and a DJ night.

Thrithi 2025 at FST was a grand success, marked by high student engagement, a spirit of collaboration, and a memorable celebration of talent and innovation.

admissions.icfaitech@ifheindia.org



Location: IcfaiTech, IFHE Campus,
Dontanpally, Shankarpally,
R.R Dist, Hyderabad - 501 203
Phone: 040 - 23479725 / 040 - 23479732
Mobile: 8499848444,
Call/Whatsapp: 9010377002

<https://www.ifheindia.org/icfaitech>
<https://www.facebook.com/IcfaiTech/>
<https://in.linkedin.com/company/icfaitech>

Editorial Team

Dr. K.L. Narayana, Director, IcfaiTech
Dr. Rashmi Sahay, Asst. Prof., CSE, IcfaiTech
Dr. Swathi Mulinti, Asst. Prof., English, IcfaiTech
Dr. Upender Maloth, Asst. Prof., English, IcfaiTech