

IcfaiTech Newsletter

From the Director's Desk



I am proud to present the latest newsletter that highlights the exceptional achievements of our distinguished faculty and the impactful events within our community. It is always inspiring to see the exceptional work being done across our various departments and the impact it has on our academic community and beyond. This issue highlights faculty achievements, including Dr. Pavan Kishore's outstanding conference presentation on aerospace engineering and Dr. Anjanna Matta's contribution to research in fluid dynamics and thermal behavior. Dr. Shakeel Hashmi made advancements in data security, while Dr. Sirisha Potluri has been actively mentoring future engineers. Dr. Asisa Kumar Panigrahi, Dr. Soumit Samadder Chaudhury,

February 2024

and Dr. M. Sandhya have been keeping the Department of ECE in limelight by continuing research activities to stay at the forefront of academic excellence. This issue highlights the work of two faculties, Dr. Chandrashekar and Dr. Kuncham Sreenivasa Rao, who have made great contributions to the field of medical engineering for cancer detection. We also feature seminars led by Dr. M. Sandhya, Dr. K. Vivekananda, and Dr. Shyamala Ruben across various departments, each offering unique insights and advancements in their respective areas. I congratulate all for ensuring the quality and integrity of scholarly work at IcfaiTech.

Our students continue to excel in sports and academic events, demonstrating their dedication and hard work. The ARENA sports report reflects the success of our students in various competitions, bringing pride to our institute. Moreover, our outreach efforts, such as the Health and Hygiene event by the Center for Women Development, underline our commitment to giving back to the community and fostering positive change. As we celebrate National Science Day and its focus on the wonders of scientific exploration, we look forward to continued growth, collaboration, and success in the months ahead. Let us take pride in our achievements and strive for excellence in all our endeavors.

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

Newsletter Highlights

Faculty Achievements:

Dr. Asisa Kumar Panigrahi, Associate Professor, Department of Electronics and Communication Engineering, reviewed an article entitled “Application of Cu reflow process on Ru liner for advanced nanoscale interconnects” for the ECS Journal of Solid State Science and Technology. He has reviewed two other articles for Journal of Case Studies in Thermal Engineering and Engineering Research Express respectively. He partnered with MDPI to review an article titled “Simulation-based Analysis for Verifying New Certification Standards of Smart LED Streetlight System”.

Dr. Chandrashekhar A, Associate Professor, Department of Mechatronics, published two articles in the journal Human Cancer Diagnosis and Detection Using Exascale Computing. The two articles are titled “3D-Printed Human Organ Designs with Tissue Physical Characteristics and Embedded Sensors” and “Developing Robot-Based Neurorehabilitation Exercises Using a Teaching-Training Process”

Dr. M. Sandhya, Assistant Professor, Department of Electronics and Communication Engineering, completed

“Microsoft, SAP & AICTE led Faculty Development Program on AI Evolution: From Foundations to Generative AI” under TechSaksham.

Dr Kuncham Sreenivasa Rao, Associate Professor, Department of Computer Science and Engineering, published an article titled “Intelligent Ultrasound Imaging for Enhanced Breast Cancer Diagnosis: Ensemble Transfer Learning Strategies” in IEEE Access.

Dr. Anjanna Matta, Associate Professor, Department of Mathematics published a research article titled, “Numerical study of linear and nonlinear stability in double-diffusive Hadley-Prats flow through a horizontal porous layer with Soret and internal heat source effects”

Dr. Pavan Kishore M.L., Assistant Professor, Department of Mechatronics, presented a paper titled “Free Vibration Analysis of Composite Aircraft Wing”



Newsletter Highlights

Faculty Achievements:

Dr. S. Shakeel Hashmi, Assistant Professor, Department of Electronics and Communication Engineering, published a paper titled “Enhancing Data Security in Multi-Cloud Environments: A Product Cipher-Based Distributed Steganography Approach”.

Dr. Sirisha Potluri, Assistant Professor, Department of Computer Science Engineering, Co-authored an article. She also edited a book titled Reconnoitering the landscape of Edge Intelligence in healthcare. Dr. Potluri participated as session chair in ICKEAI-2024. She delivered sessions on “Perspectives of IcfaiTech” and “Comprehensive view of UG programs offered at IcfaiTech”. She also conducted a career counselling session for +2 students of Sri Chaitanya of Hyderabad.

Dr. Soumit Samadder Chaudhury, Senior Assistant Professor, Department of Electronics and Communication Engineering, has reviewed articles submitted to Hindawi portfolio of journals.

Student Achievements:

Students from B Tech 3rd year participated in an international community learning project titled “*A Study on International E-community Engagement Exploring College and Career Pathways*”. The under-graduates from a backward area of South Africa were referred to as learners, who were given a clear and concise explanation about all the career paths they can pursue further. Due to the lack of their technical knowledge and financial conditions, they were invited to attend the sessions in the campus of South African University which were held on 31st Jan, 7th Feb, 14th Feb, 21st Feb, 28th Feb 2024.

Students from ICFAI Tech:

- Veeramraju Lakshmi Ajay - 21STUCHH010173
- Rithwik Kommidi - 21STUCHH010153
- Rishtha Kothuri - 21STUCHH010211
- Datla Dedeepya - 21STUCHH010342
- Budivarthi Kesav Anirudh - 21STUCHH010399



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behavior of magnesium composites” in the journal Thermal Science 2024 Volume 28, Issue 1 Part B. He also reviewed an article for the journal, SAE International Journal of Passenger Vehicle Systems.

Dr. M. Sandhya, Assistant Professor, Department of Electronics and Communication Engineering, completed “Microsoft, SAP & AICTE led Faculty Development Program on AI Evolution: From



Foundations to Generative AI” under TechSaksham.

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Dr. Pavan Kishore M.L, Assistant Professor, Department of Mechatronics, presented a paper titled “Free Vibration Analysis of Composite Aircraft Wing” in the 2nd International Conference on Novel Materials and Technologies for Energy and Environment Applications held between 17-18 February 2024.



Dr. S. Shakeel Hashmi, Assistant Professor, Department of Electronics and Communication Engineering, published a paper titled “Enhancing Data Security in Multi-Cloud Environments: A Product Cipher-Based Distributed Steganography Approach” in the International Journal of Safety and Security



Engineering.

Dr. Sirisha Potluri, Assistant Professor, Department of Computer Science Engineering, Co-authored an article titled “Registration based fully optimized melanoma detection using deep forest technique”, in the journal Biomedical Signal Processing and Control, Volume 93, 2024.



She also edited a book titled Reconnoitering the landscape of Edge Intelligence in healthcare, published by Apple Academic Press, and contributed a chapter titled “Edge intelligence - The cutting edge of the healthcare industry” to the book.



Dr. Potluri participated as session chair in ICKEAI-2024, St. Peter's Engineering College, Hyderabad, held between February 16-17, 2024.

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Faculty Achievements:

She delivered sessions on “Perspectives of IcfaiTech” and “Comprehensive view of UG

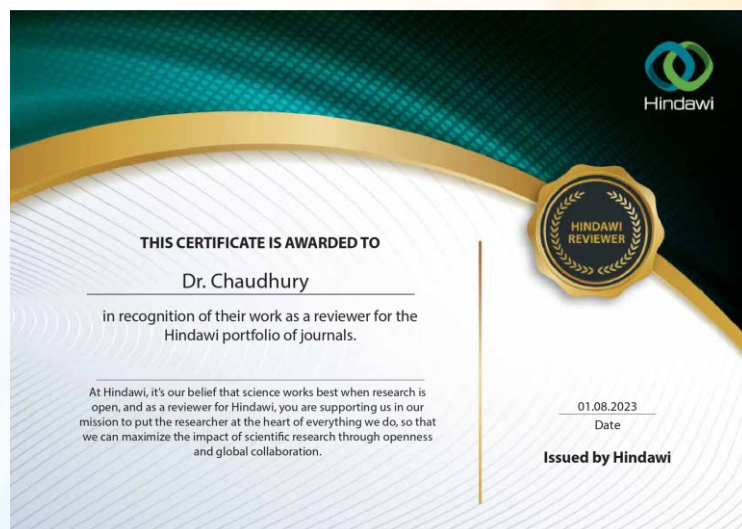


programs offered at IcfaiTech” in Training and Orientation program for IGID Marketing staff organised at IFHE campus on 18-19 January 2024.



She also conducted a career counselling session for +2 students of Sri Chaitanya of Hyderabad on 21 January 2024

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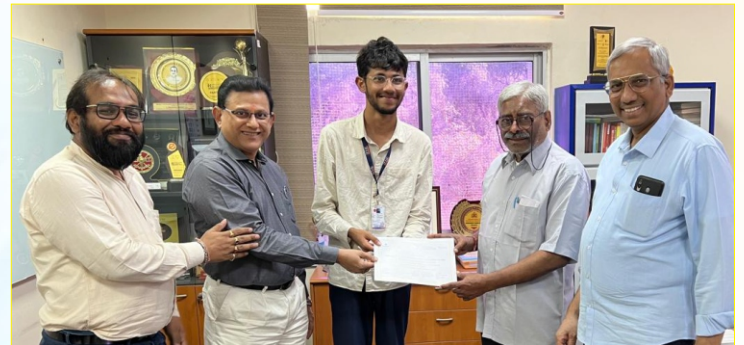
Student Achievements:

Students from B Tech 3rd year (Class of 2021-2025) participated in an international community learning project titled *"A Study on International E-community Engagement Exploring College and Career Pathways"*. The under-graduates from a backward area of South Africa were referred to as learners, who were given a clear and concise explanation about all the career paths they can pursue further. Due to the lack of their technical knowledge and financial conditions, they were invited to attend the sessions in the campus of South African University which were held on 31st Jan, 7th Feb, 14th Feb, 21st Feb, 28th Feb 2024.

Apart from the learners, a total of 25 students and 5 faculty from 5 different universities have taken part in this initiative from five different countries- India, Morocco, South Africa, United States of America, and Iraq. The students were divided into 5 groups which consisted of each student from each country. Each group was given a career field, and they had to discuss and elaborate about the possible career pathways in those fields. Some of the career fields discussed were Engineering & IT, Finance, Architecture etc. All the learners were involved in the presentations and asked questions since they were positive and enthusiastic in building a bright career.

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- Veeramraju Lakshmi Ajay - 21STUCHH010173
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Faculty Seminars

Department of Electronics and Communication Engineering organized the following faculty seminar:

Title: Wearable Circularly Polarized MIMO Antenna: Design and Simulation for High-Data Biomedical Sensing Devices

Speaker: Dr. M Sandhya

Date: 8th February 2024

Department of Mechanical Engineering organized the following faculty seminar:

Title: FE Analysis of Ultrasonic Vibratory Tool (Sonotrode)

Speaker: Dr. K. Vivekananda

Date: 20th February 2024

Department of Humanities organized the following faculty seminar:

Title: “Guardians of Women: A redefined scenario for women's safety”: A study of SHE Teams in Hyderabad.

Speaker: Dr. Shyamala Ruben

Date: 26th February 2024

Events

ARENA Sports report:(4th February 2024):

Students from IcfaiTech participated in Arena, which is one of the biggest sporting festivals conducted in BITS Hyderabad, India. The preparation for fest is grueling, the buildup intense, and participation is highly anticipated by competitors from not just Telangana and Andhra Pradesh but from all over the country.

57 players participated in 5 different sports – volleyball, badminton, kabaddi (boys), kabaddi (girls), throwball, and powerlifting. With great intensity, sportsmanship and with a mind-blowing performance, FST students achieved great success. They received winner and runner-up positions in the following events:

Kabaddi (girls) winners

Kabaddi (boys) runners up

Throwball (girls) winners

Badminton (boys) lost in the quarter finals

Volleyball (team A) lost in the quarter finals

Volleyball (team B) lost in the quarter finals.



Events

Report on Health and Hygiene Event by CWD at IFHE Hyderabad:(9th February 2024):

On the 9th of February 2024, the Center for Women Development (CWD) at IFHE Hyderabad orchestrated a significant event focused on Health and Hygiene. The event, held at Govt High School, Tangaturu, Shankarpali, and Govt High School, Poddatur, Shankarapalli, targeted girl students ranging from 6th to 10th standard. The primary objective of the event was to equip these young girls with knowledge concerning crucial aspects of health and hygiene, addressing the lack of awareness prevalent in their demographic.

The event comprised various activities and sessions aimed at achieving its goals. Health education workshops were conducted, featuring speakers from CWD team who delved into topics such as nutrition, physical activity, and mental well-being. These sessions aimed to provide the girls with a comprehensive understanding of maintaining good health. Additionally, specialized sessions focused on personal hygiene, covering areas such as

handwashing, dental care, and menstrual hygiene. Practical demonstrations and informative videos were utilized to enhance the engagement and effectiveness of these sessions.

The participation in the event was commendable, with enthusiastic involvement from the girl students of the Schools. The impact of the Health and Hygiene event was palpable as the students gained valuable insights into maintaining a healthy lifestyle and appreciated the practical tips provided. The distribution of hygiene kits further contributed to the immediate application of the knowledge gained.

Events

National Science Day(28th February 2024): Science Day, observed annually on February 28th, celebrates the marvels of scientific exploration and pivotal

2024, the Asana club from the Faculty of Science and Technology, IFHE, warmly invited 60 students from three government high schools, including Tangatur,



discoveries. One such milestone is the Raman Effect, named after the distinguished Indian physicist Sir C.V. Raman. Discovered in 1928, the Raman Effect reveals the intriguing phenomenon of light scattering when interacting with molecules. This groundbreaking revelation not only confirmed the quantum nature of light but also revolutionized modern spectroscopy. In honour of Science Day

Proddatur, and Maharajpet. The objective was not just to celebrate, but to provide these students with valuable motivation and insight into higher education.

Events

The festivities commenced with the



ceremonial lighting of the lamp, symbolizing the enlightenment that scientific exploration brings to humanity. Esteemed guests, including our Director, Professor K.L. Narayana, honoured the



occasion with their presence. Professor Narayana also delivered an inspiring speech, encouraging the students to pursue their dreams with determination and resilience, instilling in them the importance of hard work and perseverance. Dr. Anjanna Matta, through his engaging speech, motivated the

children with his words, inspiring them to pursue their dreams with passion and dedication. Following the enlightening speeches, the students embarked on a



fascinating tour of the Faculty of Science and Technology's laboratories.





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