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# From the Director's Desk

As IcfaiTech, Hyderabad welcomes the fresh batch of students, with renewed determination, we are focused on imparting quality education to them through innovation, igniting their critical thinking abilities. Welcoming the freshers, we organized Deeksharambh, an introduction to our erudite forum, that rekindled the interest of the young learners. Further, the vibrant campus witnessed several workshops, seminars, and FDPs that nurtured our faculty members, researchers, and undergraduate students. Through the July edition of the newsletter, we also offer a sneak peek into the universe of our university wherein we share the achievements of the faculty members as well as the students, further inspiring the readers to thrive and prosper.

*~ Dr. K.L. Narayana*
*Director, IcfaiTech, Hyderabad*

# Ranked No. 1

IcfaiTech, Hyderabad ranked number 1 private engineering institutes of Telangana as well as the number 1 private institute for placements by Times Engineering Institute.

## Drawn to greatness, driven by excellence

IcfaiTech, Hyderabad is a constituent of The ICFAI Foundation for Higher Education (IFHE), a Deemed- to- be University, established under section 3 of the UGC Act, 1956. With flexible and interdisciplinary educational programs, IcfaiTech, Hyderabad has been ensuring academic excellence coupled with one of the best-in-class infrastructure for students. IcfaiTech offers educational programs at UG, PG and Doctoral levels (B.Tech, B.Sc, M.TEch and Doctoral Programs). IcfaiTech was one of the earliest engineering institutions to adopt and implement the choice based credit system in the country. The students are given the choice of choosing what courses they would like to study.

IcfaiTech makes sure that students have a strong theoretical foundation and extensive hands-on experience, followed by internships and assignments that lead to personal development and discovery, enhancing their ability to function effectively after moving into their desired career paths and extra-curricular and co-curricular activities are facilitated through Student Clubs to make the students well rounded personalities. Internships are unique to first degree and higher degree programs offered at IcfaiTech. Furthermore, the Technology Innovation Center (TIC) offers a parking space for start-ups

challenges in professional life. IcfaiTech has a well-stocked library containing reference materials, magazines, journals and books of national and international publications with access to various databases that facilitate research activities of students and faculty members alike, this can also be accessed from anywhere through digital library. The academic delivery and everyday management of student data including marks, attendance, and dissemination of information is managed through Learning Management System (LMS). It is pro

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

helping graduating students get the best career opportunities through the campus. A dedicated team of placement officers work throughout the year, for organizing campus placement drives and utmost importance is given to enhancing the competence of the students and preparing them for placement. The institute has a growing alumni base of around 16,700+ who are currently pursuing fast track careers with 1000+ companies in India and abroad.

IcfaiTech has evolved academic regimen aimed toward enhancing the individual capabilities of scholars in terms of their knowledge, problem-solving skills and interpersonal relations by a mixture of a learning process that combines skills and technology incorporated in a way, to bring out the best in each and every student.

and MSMEs. It extends consultancy opportunities for faculty and mutual benefit of institute and start-up. It is a platform for students of IcfaiTech to develop their entrepreneurial skills that help students gain real work experience and prepare them to face the

technology as used in top tech schools abroad that also conducts online quizzes, shares resources and displays grade. IcfaiTech is equipped with the latest modern technology of computer network with high speed backbone and security. They are committed to

*For more details contact:*
*IcfaiTech, Faculty of Science & Technology,*
*The ICFAI Foundation for Higher Education*
*Toll free: 1 800 599 0767*
*website: www.ifheindia.org/icfaitech*

# Deeksharambh

Deeksharambh — An induction programme for the freshers was organized by IcfaiTech, Hyderabad.

**Date:** 18th to 29th July 2022

**Brief Overview:** The sessions enabled the students to learn about the courses, Intuition Innovation Council, Soft Skills Training Programme, Importance of Yoga, Placements, Critical Thinking inducing Curriculum, Internship Programme, Library rules, and Universal Human Values. The learners were briefed by industry experts, Chief Security Officer, and several representatives of the Management.

# Enriching Campus

Department of Computer Science and Engineering organizes faculty seminar.

**Title:** An Integrated Ensemble Prediction Model for Cardio Vascular Disease

**Speaker:** Dr. Sirisha Potluri, Assistant Professor, Department of Computer Science & Engineering

**Date:** 29 July 2022

**Brief Overview:** For the past few decades, heart disease has shown a binding effect on the country's mortality rate. The prediction of cardiovascular disease is more challenging during the process of clinical data analysis. The emergence of Machine Learning (ML) approaches paved the way to predict the disease and determine the consequences of the disease in the earlier stage to help the physicians during complex decision making. This work adopts k—Nearest Neighbour as baseline classifier and ensemble X—boost, Adaboost and Random Sub—space classifier model to predict heart disease and aims to predict the features of cardiovascular disease using Linear Support Vector Feature Measure (l SVFM). This model considers the diverse combination of features to make the better classification process. Performance metrics like accuracy, precision, F—measure, stability rate, and recall are measured to show the model efficiency. The outcome of the suggested ensemble genetic model is enhanced in comparison with the existing models.



Department of Mathematics, IcfaiTech, Hyderabad in collaboration with the Electronics & ICT Academy, NIT Warangal conducted a 10 Day Online FDP.

**Title:** Mathematical Models for Machine Learning and It's Applications

**Resource Persons:** Prof. P Radha Krishna, NIT Warangal, Prof. RBV Subramanyam, NIT Warangal, Prof. Garimella Ramamurthy, Mahindra University, Dr. M Srinivas, NIT Warangal, Prof. CS Sastry, IIT Hyderabad, Dr. Sushil Kumar, NIT Warangal, Dr. Sujit Das, NIT Warangal, Dr. Venkateshwara Rao, NIT Warangal, Dr. Ramalinga Swamy, NIT Warangal, and Dr. A Ravi Kumar, Amazon.

**Date:** 11th July to 20th July 2022

**FDP Coordinator:** Dr. Anjanna Matta, Assistant Professor, Department of Mathematics

**Brief Overview:** The Faculty Development Programme disseminated knowledge in the domain of AI and Machine learning with python.

Inaugurated by Prof. Srinivas Reddy, this FDP was attended by 75 members from various universities across the globe.

On 20th July 2022, Dr. K.L. Narayana, Director, IcfaiTech, Hyderabad along with Prof. RBV Subramanyam, E & ICT head, NIT Warangal addressed the participants during the closing ceremony of this enriching FDP.
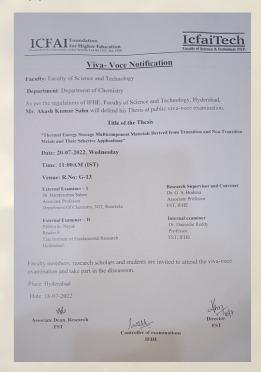






As per the Ph.D. regulations of Icfai Foundation for Higher Education, Hyderabad the viva voce examination of Mr. Akash Kumar Sahu, Research Scholar in the Department of Chemistry was scheduled on 20trh July 2022

**Research Supervisor:** Dr. G.S. Brahma, Associate Professor, Department of Chemistry

**Title of the thesis:** Thermal Energy Storage Multicomponent Materials Derived from Transition and Non—Transition Metals and Their Selective Applications

# Eminent Alumni

IcfaiTech, Hyderabad incubated start-up led by Alumni Student Mr. Shashank Reddy of batch 2017-21 and his team won the Best EV Startup Award of the Year 2022 from Business Mint.

Company name: Ermin Automotive

Product: E-bike equipped with technology, improved range, better battery life and low total cost of ownership of an EV vehicle. The bike comes with a top speed of 125 kmph and a range of 250+ Km on a single charge. Another distinguishing feature of the bike is the Adaptive drive that applies ML and AI to adapt the bike to the user's driving patterns and behaviour while also adapting to the weather
and terrains.

# Faculty Achievements

Dr. Sudheer Hanumanthakari, Assistant Professor, Department of Electronics and Communication Engineering along with Keerti Adapa, Student, IV year, Department of DSAI presented a research paperat an International Conference

Paper Title: Machine Learning based crop recommendation system

Conference Title: 2nd International Conference on Artificial Intelligence & Knowledge Processing (AIKP'22)

Organized by: Woxsen University In Association with Course5 Intelligence Limited

Date: 22nd – 23rd July 2022

# Faculty Achievements

Dr. A. Manmadha Chary, Assistant Professor, Department of Mechatronics Engineering, IcfaiTech, Hyderabad was invited to deliver a Guest Lecture.

**Invited at:** High End Research Workshop (Karyashala)

**Invited by:** Department of Mechanical Engineering Under DST—SERB Accelerated Vigyan Program at NIT Warangal

**Title of the lecture:** "Medical CAD Modelling for 3D Printing"

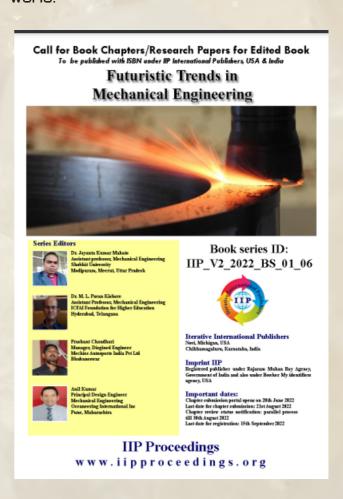**Date:** 25th — 31st , July 2022.

**Brief Overview:** This workshop (DST—SERB Accelerated Vigyan Program) was specially conducted for full—time research scholars across all over the India. The informative lecture by Dr. A. Manmadha Chary was well appreciated by the participants of the Workshop.

Dr. Pavan Kishore M.L., Assistant Professor, Department of Mechatronics has been selected as the editor of Book Chapters/Research Papers.

**Publishing House:** ISBN under IIP International Publishers, USA & India

**Book Series:** Futuristic Trends in Mechanical Engineering

**Brief Overview:** The primary goal of this book series is to promote research and developmental activities in mechanical engineering, promote scientific information exchange among the academicians, researchers, developers, engineers, students, and practitioners working around the world.



Organized by
**Department of Mechanical Engineering**
National Institute of Technology Warangal
Venue : Khurana Hall, Seminar Hall Complex



Call for Book Chapters/Research Papers for Edited Book
*To be published with ISBN under IIP International Publishers, USA & India*

**Futuristic Trends in Mechanical Engineering**

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Government of India and also under Bowker My identifiers
agency, USA

**Important dates:**
Chapter submission portal opens on 20th June 2022
Last date for chapter submission: 21st August 2022
Chapter review status notification: parallel process
till 30th August 2022
Last date for registration: 15th September 2022

**IIP Proceedings**
www.iipproceedings.org

# Faculty Achievements

Dr. Sandeep Kumar Panda, Associate Professor & Head of the Department, Department of Data Science & Artificial Intelligence has been an esteemed member of the Technical Program Committee (TPC) at an International Conference.

**Conference Title:** 10th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2022)

**Organized by:** Department of Computer Science & Engineering, National Institute of Technology, Mizoram, India

**Date:** June 18 – 19, 2022

**Brief Overview:** Dr. Sandeep Kumar Panda contributed in the peer review process. His invaluable dedication in safeguarding the quality and high standard of academic integrity in this conference was highly appreciated.

Dr. Sandeep Kumar Panda, Associate Professor & Head of the Department, Department of Data Science & Artificial Intelligence organized theme based Special Session at an International Conference.

**Session Title:** Blockchain 4.0: Artificial Intelligence and Industrial Internet of Things Paradigm in New Advanced Society Challenges, Application

**Conference Title:** 10th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2022)

**Organized by:** Department of Computer Science & Engineering, National Institute of Technology, Mizoram, India

**Date:** June 18 – 19, 2022

# Faculty Achievements

Dr. Movva Pavani, Assistant Professor, Department of Electronics & Communication Engineering has successfully completed workshop.

Workshop title: 2nd One Week Workshop On VLSI Device, Circuit, And System Design Tools (Online)

Organizing Institute: School of Electronics Engineering (SENSE), VIT—AP University

Date: 23—29 June 2022

Brief Overview: On attending this workshop, Dr. Movva Pavani acquired Hands on experience on the Cadence Tools.
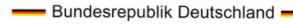
International German Patent Published and Granted for 3 Years under the utility model protection.

Faculty: Dr. Movva Pavani, Assistant Professor, Department of Electronics & Communication Engineering

Title: A Voice and Cognition Controlled Advanced Drone System

Brief Overview: The invention is a wearable device equipped with a microphone to receive voice input of a user associated with the drone control and producing a voice signal: an authentication unit to compare the extracted voice feature from the produced voice signal with a pre-stored voice feature to authenticate user: a communication unit to transmit the produced drone control data to the drone: and a central controlling unit equipped with a drone control user interface to maneuver the drone with a voice of a user.
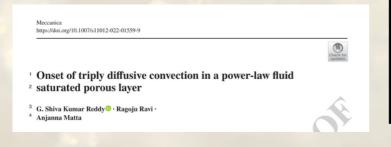
# Faculty Achievements

Dr. Anjanna Matta, Assistant Professor, Department of Mathematics published research paper.

**Title:** Onset of triply diffusive convection in a power–law fluid saturated porous layer

**Journal Name:** Meccanica

**Impact Factor:** 2.5

**Indexed:** SCI journal

**Publisher:** Springer

**Brief Overview:** The experiments conducted in the research work inferred that for minimal values of Péclet number, the pseudoplastic fluids are more stable than the Newtonian fluids, while the dilatant fluids are less stable. An opposite behavior is observed at large values of Péclet number. The asymptotic cases in the regime of small wave number and small Péclet number are further discussed in the paper. In these regimes, an analytical expression is obtained for the marginal stability condition.

Dr. M L Pavan Kishore, Assistant Professor, Department of Mechatronics presented research papers.

**Title:** "Impact of Material on the Design of Disk Brake using AM Techniques" and "Design and Analysis of Biomedical Scaffolds Inspired from Additive Manufacturing: A Review"

**Conference Title:** AICTE Sponsored in "International Conference on Advanced Communication Control & Computing Technology (ICACCCT'22)

**Organizing Institute:** SIMATS School of Engineering, Saveetha Institute of Medical & Technical Sciences, Chennai

**Date:** 28th–30th June 2022



Meccanica
https://doi.org/10.1007/s11012-022-01559-9

**Onset of triply diffusive convection in a power-law fluid saturated porous layer**

G. Shiva Kumar Reddy · Ragoju Ravi · Anjanna Matta



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**Certificate of Participation**

This certificate is presented to

Dr. M L Pavan Kishore

for presenting the research paper entitled

IMPACT OF MATERIAL ON THE DESIGN OF DISK BRAKE USING AM TECHNIQUES

AICTE Sponsored in "International Conference on Advanced Communication Control & Computing Technology" (ICACCCT' 22) organized by SIMATS School of Engineering, Saveetha Institute of Medical & Technical Sciences, Chennai, Tamil Nadu, India during 28 - 30 June 2022.

Principal
Dr. B. Ramesh

Convener
Dr. S. Srinivasan

Director
Dr. Ramya Deepak



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for presenting the research paper entitled

DESIGN AND ANALYSIS OF BIOMEDICAL SCAFFOLDS INSPIRED FROM ADDITIVE MANUFACURING: A REVIEW

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Dr. S. Srinivasan

Director
Dr. Ramya Deepak

# Promoting IcfaiTech

Dr. Soumit Samadder Chaudhury, Assistant Professor, Department of Electronics & Communication Engineering promoted IcfaiTech, Hyderabad at Education Fair

**Event:** Vidya Sangama [Education Expo] organized by News18

**Location:** Malleswaram Grounds, Bangalore

**Date:** 9th and 10th July 2022

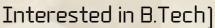**Footfall:** 50+ people on 9th July
60+ people on 10th July

Dr. K Vivekananda, Assistant Professor, Department of Mechatronics promoted IcfaiTech, Hyderabad at Education Fair

**Event:** Eduverse 2022

**Location:** Gokul Gardens, Hubli

**Date:** 9th and 10th July 2022

**Footfall:** 50 people on 9th July [25 Interested in B.Tech]
60 people on 10th July [38 Interested in B.Tech]