

## IcfaiTech Newsletter

Vol 19, February 2023

### From the Director's Desk

Faculty of Science and Technology, Hyderabad is emerging as the leading institute offering unique courses, curriculum, and internship opportunities. I am particularly proud of the social initiatives taken by various student's club of FST. I congratulate members of the Asana Club for successfully organizing the blood donation camp at FST.

I am pleased to share the February edition of the FST Newsletter . Accentuating research works, invigorating campus events, and phenomenal achievements mark this chapter of the newsletter. I welcome everyone to have a glimpse of the ongoing activities through this newsletter that disseminates knowledge pertaining to our incredible educational approaches and socially relevant research works. Finally, I wholeheartedly welcome the highly accomplished faculty members who joined in the month of February.



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

### Contents

#### Campus Happenings:

Spotlit Club- Induction Program  
Blood Donation Camp

#### Faculty Achievements:

Dr. V. A. Sankar Ponnappalli  
Dr. Dileep Kumar Murala  
Mr. K Varaprasada Rao  
Dr. Sudheer Hanumanthakari  
Dr. Anjanna Matta  
Dr. Rashmi Sahay  
Dr. A Chandra Shekhar  
Dr. A. Manmadha Chary

#### Student Achievement:

Jasmine Sing Bharaj

#### Faculty Seminars:

Department of Computer Science and Engineering  
Title: Sequence Prediction using Tensorflow  
Department of Electronics and Communication

#### Engineering

Title: Time-frequency analysis of Non-stationary Signals  
Title: Application of MEMS Switch in Chipless Radio  
Frequency Identification Tag.

#### Department of Mathematics and English

Title: Linear and Nonlinear thermosolutal instabilities  
in an inclined porous layer

#### Welcoming New Faculty:

Dr. Anjalaiah - Department of Mathematics

### Spotlit Club- Induction Program

Spotlit, the theatre and drama Club of FST, celebrated its Induction program on 3rd February 2023 at FST Auditorium. Dr. K. L. Narayana, Director-FST, and Dr. Srinivas Reddy graced the occasion as Guests of Honour. Associate Dean of Academics Dr. Suresh Kumar, Associate Dean of Student Affairs Dr. Jyothi Ranjan Nayak, Faculty Mentor Dr. Anjanna Matta, Dr. P Rohini, and Ms. Sathya Renu graced the occasion too.



The event commenced with the lighting of the lamp and a classical Maha Ganapathi song. Associate Dean of Student Affairs Dr. Jyothi Ranjan Nayak encouraged the club to continue their legacy with his inspiring speech. The past achievements of the club were showcased and the club's first banner was revealed with legendary background music and confetti bombs. The audience was overjoyed with the surprise and started clapping and cheering for the team.







Faculty Mentor of the Club, Dr. Anjanna Matta, appreciated the club founder Mr. Vishesh Krishna Bandi. Dr. Anjanna Matta and Dr. Rohini acknowledged the new team coordinators, Heads of the departments, and Student Mentor Mr. Chavva Teja with badges.

Ms. Sathya Renu acknowledged the newly formed core committee of Spotlit Club, President Mr. Hara Bhuvan, the Vice President Ms. Hima Varsha, the Club Secretary Ms. Jahnvi Gopu, and the treasurer Mr. Venu Gopal with prestigious badges.



Dr. Srinivas Reddy also addressed the gathering and appreciated the former core committee members, the Founder of the club, Mr. Krishna Vishesh Bandi, the Co-Founders Ms. Josna Theresa, Mr. Asish Varma, Disciplinary Head Ms. M.V. Srujana, Ms. M. Manwitha, Mr. P. Uttej, Mr. Chavva Teja, Mr. B. Sai Pratham, Ms. Mounya Sri and Mr. Srikar Bharadwaj, with Certificate of Appreciation and Mementos.



The Club founder Mr. Vishesh addressed the gathering. He spoke about the club's foundation journey and appreciated the efforts of everyone behind the success of Spotlit and conveyed his best wish to the new incumbents.



### Asana Club- Blood Donation Camp



Asana Club has proudly conducted the Blood Donation Camp yet again this year. The event received a very positive response with a good number of participants. Many students came forward to donate their blood for a good cause. Professionals from The Red Cross Foundation, Hyderabad came forward to co-organize the event and collect the blood. Students were encouraged for blood donation only after proper health check-up and under professional assistance.





**Faculty Achievements:**



**Dr. V. A. Sankar Ponnappalli**, Assistant Professor, Dept. of Electronics and Communication Engineering published a research article titled "A review on smart water management in various domestic areas: an approach for water consumption and leakage perspectives" in the Inderscience International Journal of Critical Infrastructures; Vol. 19 (1), pp. 1-16. The journal is indexed in ESCI & Scopus.

**Abstract:**

One of the major issues that is affecting the water utilities in domestic areas is leakages through the distribution networks, non-revenue water estimation, and failure in the prediction of water consumption at individual spaces. This review paper basically focuses on these three important directions to understand the feasible domestic water management systems with integrated models of internet of things and artificial intelligence approaches. Different smart water management techniques have been reported in the literature to improve efficiency and avoid non-revenue water issues, and these are consolidated in this paper. Prediction failure of water utility in the water distribution systems is also presented in this paper. This article summarises a measure of water consumption statistics, a detailed summary of non-revenue water, and leak detection technologies at extensive areas to provide a wide sense of understanding for the prediction of the water consumption and leakage detection.



**Dr. Dileep Kumar Murala**, Assistant Professor, Dept. of Computer Science and Engineering, **Dr. Sandeep Kumar Panda**, Associate Professor and Head, Dept. of DSAI and **Dr. Santosh Kumar Sahoo**, Assistant Professor, Dept. of CSE co-

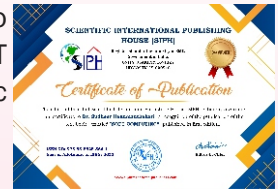
authored and published a research article titled "Securing Electronic Health Record System in Cloud Environment Using Blockchain Technology" in the Springer Recent Advances in Blockchain Technology, Intelligent Library, Vol 237 , Pages 89-116, 12 February, 2023.

**Mr. K Varaprasada Rao**, Assistant Professor, Dept. of CSE, along with **Dr. Dileep Kumar Murala**, and **Dr. Sandeep Kumar Panda** published a research article titled "Blockchain: A Study of New Business Model", the Springer Recent Advances in Blockchain Technology: Real-World Applications, ,vol 237,Pages187-214, 12 February 2023

**Dr. Sudheer Hanumanthakari**, Assistant Professor, Dept. of Electronics and Communication Engineering published a paper titled "IoT based Patients Monitoring System in Healthcare Service," in IEEE 2022 International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, 2022, pp. 1324-1329, doi: 10.1109/ICACRS55517.2022.10029295.



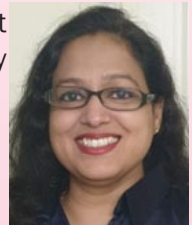
**Dr. Sudheer Hanumanthakari** also published a book titled, "SOFT COMPUTING", with Scientific International Publishing House. ISBN No. 978-93-5625-566-1.



**Dr. Anjanna Matta** attended a Two Days Online Faculty Development Program on "Machine Learning and its Applications in Environmental Issues" from 24th to 25th February 2023 organized by the Centre for Clean Environment (CCE), Vellore Institute of Technology (VIT), Vellore-632014.

**National Patent**

**Dr. Rashmi Sahay** published an Indian Patent titled: Irrigation Management Device by Machine Learning Approaches  
Application Number: 202221061429  
Date of Filing 28/10/2022  
Date of Publication: 3/02/2023



**International Patent**



**Dr. A Chandra Shekhar Akula**, Assistant Professor, Dept. of Mechatronics is granted a german patent for a period of 20 years.

The details are as follows:

Patent Title: IoT Enabled Device for Controlling Robot and it's Learning  
Date of Filing: 28. 01.2023  
International: Field Issue 12.12.2022  
Granted on 09-02-2023 for 20 years  
International: Field Issue 12.12.2022  
Granted on 09-02-2023 for 20 years





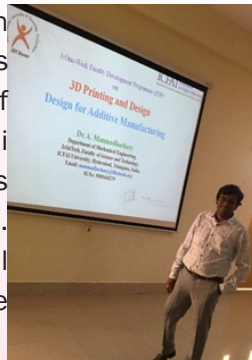
Dr. A. Manmadha Chary, Assistant Professor in the Department of Mechatronics Engineering, IcfaiTech, Faculty of Science and Technology, ICFAI Foundation for Higher Education (IFHE), Hyderabad, has delivered a lecture on “Design for Additive Manufacturing” in A One-Week

Department of Electronics and Communication Engineering conducted the following faculty seminars.

Topic: Time-frequency analysis of Non-stationary Signals  
Speaker: Dr. P Akhendra Kumar  
Date: 2nd February 2023



Faculty Development Programme (FDP) on “3D Printing and Design”. This FDP was organized by the Department of Mechanical Engineering, Rajiv Gandhi University of Knowledge Technologies Basar, during 13th -17th February, 2023. The lecture is very informative and well appreciated by the participants of the Faculty Development Programme.



Title: Application of MEMS Switch in Chipless Radio Frequency Identification Tag.

Speaker: Dr. Soumit Samadder Chaudhury

Date: 15th February 2023

Department of Mathematics and English conducted the following faculty seminars.

Title: - Linear and Nonlinear thermosolutal instabilities in an inclined porous layer

Speaker: Dr. Gautam Kumar

Date: 20th February 2023



Dr. A. Manmadha Chary, Assistant Professor in the Department of Mechatronics Engineering, IcfaiTech, Faculty of Science and Technology, ICFAI Foundation for Higher Education (IFHE), Hyderabad, has delivered a lecture

on “Design for Additive Manufacturing” in A One-Week Faculty Development Programme (FDP) on “3D Printing and Design”

The following faculty members of FST have been included in the PLOS ONE Editorial Board. PLOS ONE Journal is indexed in both Scopus and Web of Science and has an impact factor of 3.75.

- a) Dr. V. A. Sankar Ponnappalli, Assistant Professor, Dept. of Electronics and Communication Engineering
- b) Dr. Rashmi Sahay, Assistant Professor, Dept. of Computer Science and Engineering

**Faculty Seminars:**

Department of Computer Science and Engineering conducted the following faculty seminars

Title: Sequence Prediction using Tensorflow

Speaker: Dr. Kuncham Sreenivasa Rao

Date: 10th February 2023

**Alumni Achievement**



Icfai Tech alumni Jasmine Sing Bharaj,(2017-21 batch) currently Sub Lt. in The **Indian Navy** visited the IcfaiTech campus. She spoke to all her former faculty and interacted with a few students during her visit.

She was presented with a small token of appreciation by our director K.L Narayana.



## Welcoming New Faculty



**Dr. Anjalaiah** joined as an Assistant Professor in The Department of Mathematics at FST, IFHE, Hyderabad. He pursued Ph.D., at the Department of Mathematics, Indian Institute of Technology Madras, and a Post-doc from the University of Hyderabad. He Post Graduated from Pondicherry Central University and graduated with a Bachelor of Education (B.Ed). He qualified for GATE-2009 with A.I.R - 37 & CSIR-UGC NET-2009 exam with A.I.R - 54 and received an NBHM fellowship for P.G's final year.

His research work is related to three model problems (Stability analysis of Thin film flow system, Tear Film dynamics, and Steady solutions of Inverse problems). He has published articles in reputed journals like Physics of Fluids & Acta Mechanica, and Journal of Non-Newtonian Fluid Mechanics. He has a research interest in Machine learning and Statistical Inverse Problems. He has vast experience in teaching at various institutions and believes in understanding student's requirements and encouraging them toward their goals.

## Free Mock Test for EAMCET - 2023

Greetings!!!

IcfaiTech (FST), IFHE, Hyderabad is conducting FREE MOCK TEST for EAMCET 2023 for all II year Intermediate (plus 2) students (MPC Branch). No registration fee. Registration date is 20th April 2023. The exam is also ONLINE/OFFLINE on April 24th, 26th, 28th & 30th, 2023. The registration link is given below:

<https://bit.ly/3tMKRas>

Website: <https://www.ifheindia.org/icfaitech>

Facebook: <https://www.facebook.com/IcfaiTech/>

LinkedIn: <https://in.linkedin.com/company/icfaitech>

**ICFAI** Foundation for Higher Education  
(Deemed to be University under Section 3 of the UGC Act, 1956)  
Autonomous Institution. Accredited by NAAC with 'A+' Grade

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

**FREE**  
Mock Test  
Online/Offline  
for EAMCET 2023

**Test Dates** April 24, 26, 28 & 30, 2023  
10.00 am - 1.00 pm

Scan to Register

Last Date for Registration  
**April 20, 2023**

**Venue**  
IcfaiTech, ICFAI Foundation for Higher Education (IFHE),  
Dontanpalli, Shankarpally Road, Hyderabad - 501 203, Telangana State.

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