

ICFAI TECH NEWSLETTER

September
2025

From the Director's Desk:



Dear Faculty, Staff, and Students,

It gives me great pleasure to present the September 2025 issue of the Icfaitech Newsletter, which encapsulates the dynamic spirit of our institution through its academic accomplishments, research milestones, and student-led initiatives. Each month, I am inspired by the enthusiasm, creativity, and commitment demonstrated by our faculty and students – qualities that continue to elevate Icfaitech's stature as a center of innovation and learning excellence.

This month has been especially eventful, marked by several activities that highlight our shared commitment to intellectual growth, technological advancement, and social responsibility. I am delighted to acknowledge the outstanding achievements of our faculty members whose publications in reputed **SCI and Scopus-indexed journals** reaffirm our dedication to impactful research and global academic engagement. Their scholarly contributions in areas such as clean energy, nanotechnology, artificial intelligence, and blockchain exemplify the multidisciplinary strength of Icfaitech's academic community.

Equally commendable are the initiatives undertaken by our students and clubs, whose energy and dedication have enriched campus life. The **Asana Club**, in collaboration with the **Red Cross**, successfully organized a **Blood Donation Camp**, reflecting compassion, civic duty, and humanitarian values. The **Smart India Hackathon (SIH) 2025 Internal Rounds** showcased the innovative spirit of our budding engineers, with several teams presenting creative, real-world solutions aligned with national priorities in AI, IoT, and sustainability.

The celebration of **Engineers' Day 2025** was another proud moment for Icfaitech, paying tribute to Sir M. Visvesvaraya and inspiring students to pursue excellence in engineering and technology. The collaborative efforts of clubs such as Yantrikee, GDG, LitGalore, and Dansation brought together creativity, technical acumen, and teamwork – hallmarks of our vibrant campus culture.

I would also like to appreciate the Spotlight Club for its impactful Anti-Drug Awareness Campaign, and the Department of ECE for organizing the Familiarization Workshop on EDA Tools under the C2S Program of MeitY. These initiatives demonstrate how our students and faculty work together to foster awareness, skill development, and social consciousness.

As we continue our journey toward academic distinction and societal impact, I encourage each member of the Icfaitech community to embrace innovation, pursue research with integrity, and uphold the values of empathy, excellence, and service. Let us move forward with renewed determination to make Icfaitech not just a place of learning, but a hub of transformative ideas and inclusive progress.

Warm regards,
Prof. K.L. Narayana
Director, ICFAI Tech

Faculty Achievements:

RESEARCH PUBLICATIONS

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, published a research paper titled, "A comprehensive review of green hydrogen technologies for clean energy futures" in the Journal of the Korean Physical Society (Springer, SCI-indexed).

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, published a research paper titled, "Strategic deployment of FACTS devices for enhanced security in multi-area power systems" in a Q1 peer-reviewed journal (Results in Engineering, Elsevier).

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, published a research paper titled, "Toward Explainable AI in Satellite Imagery: A ResNet-50-Based Study on EuroSAT Classification" in IEEE Access, a Q1, SCI-indexed journal.

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, published a research paper titled, "Gate Stack

Analysis of Junctionless Multi-Bridge-Channel FETs for Sub-3 nm Chips in IEEE OJ Nanotechnology, a Q2, SCI-indexed journal.

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, published a research paper titled, "Investigation of gate dielectric interface on contact resistance of short channel organic thin film transistors (OTFT)" in PLoS One, a Q1, SCI-indexed journal.

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, published a research paper titled, "Chef-Based Optimization Algorithm (CBOA)-Based Global Peak Power Tracking Scheme for PV System" in Q1 peer-reviewed journal (IEEE Access; Impact Factor: 3.6).

Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE, published a research paper titled, "Advanced hybrid dielectric OTFT biosensor for early breast cancer diagnosis with enhanced sensitivity" in a Q1 peer-reviewed journal (Results in Engineering, Elsevier; Impact Factor: 7.9).



Dr. Asisa Kumar Panigrahy, Associate Professor, Dept. of ECE.

Dr. Kesavarao Sykam, Assistant Professor of Chemistry, published a research paper titled, "Understanding the Reaction-to-Fire Properties of Biomass and Their Respective Biochars" in: 'ACS Omega' (Q1 journal indexed in SCOPUS and Web of Science with an impact factor of 4.3)

Dr. Kesavarao Sykam, Assistant Professor of Chemistry, published a research paper titled, "Design Strategies Using Schiff Bases for Flame-Retardant Epoxy Resins: A Review" in Wiley-Journal of Applied Polymer Science (Q2 journal indexed in SCOPUS and Web of Science with an impact factor of 2.8)



*Dr. Kesavarao Sykam,
Assistant Professor of
Chemistry*

PARTICIPATION

Dr. Barla Madhavi, Senior Assistant Professor, Dept. of ME, participated in the Advanced Drone (Air Taxi) Workshop conducted by the Bharat Space Education Research Centre (BSERC) under I-STEM, on 7th September 2025.



Students' Achievements

The department of CSE congratulates the contributors for their academic diligence and excellence. Their research reflects a forward-looking engagement with emerging technologies and interdisciplinary scholarship – values at the core of our academic mission.

We encourage all students to continue their pursuit of research and innovation through collaborative inquiry and publication.

| S.no | Roll NO | Name | Book/Journal Title | Chapter / Article |
|------|----------------|-------------------------|--|--|
| 1 | 20STUCHH010011 | AKHILESHWAR SANATHANA | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 2: Mainstreaming the Metaverse The Blockchain-Based Revitalization of Virtual Worlds |
| 2 | 20STUCHH010038 | BANDA MANOJ KUMAR REDDY | | |
| 3 | 20STUCHH010243 | TOTA YASHASWI | | |
| 4 | 20STUCHH010271 | KOPPAKA SRI DEEPTHI | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 3: The Role of Privacy, Data Integrity, and Accountability in Blockchain Systems |
| 5 | 20STUCHH010274 | DEVA VASISTA | | |
| 6 | 20STUCHH010276 | VUNDYALA ANKITHA | | |
| 7 | 20STUCHH010267 | M SUMANTH | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 4: Attacks and Defense Mechanisms in Blockchain Technology |
| 8 | 20STUCHH010176 | K ABISHAI DAVID | | |
| 9 | 20STUCHH010269 | CHITTARI SHIVA SAI | | |
| 10 | 20STUCHH010014 | ALWALA SAI CHARAN | | |
| 11 | 20STUCHH010053 | CHANNIVALLY SIDDHARTHA | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 5: Security Improvements in the Internet of Things Environment Using Blockchain |
| 12 | 20STUCHH010205 | KONDAKALLA TEJASHRI | | |
| 13 | 20STUCHH010109 | KELUTH YOJITH AKSHAY | | |
| 14 | 20STUCHH010038 | BANDA MANOJ KUMAR REDDY | | |
| 15 | 20STUCHH010179 | RAMIREDDY VINAY REDDY | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 6: Revolutionizing Industries The Impact of Blockchain in the Era of Industry 4.0 |
| 16 | 20STUCHH010138 | NADIMPALLI TEJASWI | | |
| 17 | 20STUCHH010086 | INAGANTI ANUSRI REDDY | | |
| 18 | 20STUCHH010130 | TARUN Ajendla | Metaverse and Blockchain Use | Chapter 7: Collaboration of |
| 19 | 20STUCHH010003 | MADUPATI AKHILA | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 8: Blockchain in Future Wireless Mobile Networks: An Academic Discourse on the Convergence of Blockchain |
| 20 | 20STUCHH010112 | CHEKURTHA SRUTHI | | |
| 21 | 20STUCHH010268 | M SOWMYA | | |
| 22 | 20STUCHH010016 | KADIGARI BHAVYA | | |

| | | | | |
|----|----------------|----------------------------|--|---|
| 23 | 20STUCHH010001 | ACHUTUNI SAI HARSHA | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 9:Blockchain Technology's Application in the Healthcare Industry |
| 24 | 20STUCHH010042 | BHUMIREDDY SINDHUJA | | |
| 25 | 20STUCHH010228 | SUNKIREDDY RISHI | | |
| 26 | 20STUCHH010072 | GADE VENKAT SHIVA SAI | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 10:A Unified Workflow of Blockchain Technology in the Global Healthcare Industry |
| 27 | 20STUCHH010049 | CHANDRA KALADAR | | |
| 28 | 20STUCHH010092 | JOEL JOSE | | |
| 29 | 20STUCHH010002 | A VARUN RAJ GOUD | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 11:The Revolution of Blockchain Technology in Higher Education |
| 30 | 20STUCHH010014 | ALWALA SAI CHARAN | | |
| 31 | 20STUCHH010047 | ATTI VIJAY KUMAR | | |
| 32 | 20STUCHH010059 | SIRIGUPPI AJITESH | | |
| 33 | 20STUCHH010085 | THIRUCHUNAPALI VASUDEVAN | Metaverse and Blockchain Use | Chapter 12:Impact of |
| 34 | 20STUCHH010178 | RAGAM SIVA KAILASH | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 13:Decentralized Exchange and Pooling Trading Platform Applications |
| 35 | 20STUCHH010076 | M SREE VEERA VENKATA | | |
| 36 | 20STUCHH010163 | PENUGONDA BHANU VENKATA | | |
| 37 | 20STUCHH010104 | K TARUN KRISHNA | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 14:Performing Sentiment Analysis on Twitter Data to Analyze Trends Related to Bitcoin |
| 38 | 20STUCHH010186 | RUCHI DATTA BOMMARAJU | | |
| 39 | 20STUCHH010196 | SHERAL SAMVEETH | | |
| 40 | 20STUCHH010202 | VALLAPU REDDY ANKITH REDDY | | |
| 41 | 20STUCHH010261 | K VIDULA | Metaverse and Blockchain Use Cases and Applications (12 August 2025) | Chapter 15:A Study of Blockchain Technology Applications in the Field of Digital Forensics |
| 42 | 20STUCHH010021 | J ANU SRIHITHA | | |
| 43 | 20STUCHH010198 | SATVIK VENKAPALLY | | |
| 44 | 20STUCHH010249 | P VIJAY | | |
| 45 | 20STUCHH010219 | TALLA MOKSHANAND | IUP Journal of Computer | Confluence of Distributed |

| | | | | |
|----|----------------|------------------------|---|---|
| 46 | 20STUCHH010220 | GARIKIPATI GNANEESHRAO | | |
| 47 | 20STUCHH010277 | BAIBHAB KUMAR | IUP Journal of Computer Sciences, Vol. 18 Issue 4, p7-28. 22p. October 2024 | Financial Fraud Detection and Prevention Using Blockchain and Integration of Hyperledger. |
| 48 | 20STUCHH010067 | MALAVIYA MANAV PARESH | | |
| 49 | 20STUCHH010240 | DODHIAWALA ZION | | |
| 50 | 20STUCHH010200 | SHAIK ABDUL HAFEEZ | | |
| 51 | 20STUCHH010083 | CHOULA HARA BHUVAN | IUP Journal of Computer Sciences, 10.71329/IUPJCS/ 2025.19.1.18-34 January 2025 | Emerging Blockchain Models for Digital Currencies |
| 52 | 20STUCHH010095 | K B V V M S VENU GOPAL | | |
| 53 | 20STUCHH010013 | ALLURI RAGHAV VARMA | | |
| 54 | 20STUCHH010087 | G JAHNAVI | | |

Events

BLOOD DONATION CAMP ORGANIZED BY ASANA CLUB

The **Asana Club**, in collaboration with the **Red Cross**, organized a **Blood Donation Camp** on **1st September 2025 at the FST Auditorium**. The event witnessed enthusiastic participation from students, faculty, and staff, who came together to support a life-saving cause.

The camp aimed to promote blood donation, spread awareness about its importance, and ensure donor safety through thorough health screenings. Volunteers from the Asana Club actively assisted in registration, guidance, and post-donation care.

Dr. K.L. Narayana, Director, ICFAITECH, along with faculty members, graced the occasion and encouraged participants. The initiative successfully fostered a spirit of social responsibility and community service, reinforcing ICFAITECH's commitment to humanitarian values.



BLOOD DONATION CAMP ORGANIZED BY ASANA CLUB

SMART INDIA HACKATHON (SIH) 2025 – INTERNAL ROUNDS AT ICFAITECH

IcfaiTech, IFHE Hyderabad, successfully conducted the **Internal Rounds of Smart India Hackathon (SIH) 2025** on **September 16, 2025**. Organized by **Dr. Asisa Kumar Panigrahy** (SPOC) and **Dr. Kousik Midya** (Co-Coordinator) from the Department of ECE, the event witnessed the enthusiastic participation of 48 teams presenting innovative solutions to real-world problems.

The internal hackathon served as a platform to foster creativity, teamwork, and problem-solving skills among students. Teams showcased ideas spanning **AI-based solutions, IoT applications, and sustainable innovations**. A panel of expert judges evaluated projects on technology, design, feasibility, presentation, and prototype.

Winning teams from both **software and hardware categories**—including Team ACLY, Otaku Engineers, E.N.E, Sensorium, Ocean Sight, and Wave Riders—earned accolades for their creativity and execution.

The event reflected IcfaiTech's commitment to nurturing **young innovators and future technologists**, aligning with the national vision of building a smart and self-reliant India.



The poster for the Internal Hackathon Smart India Hackathon 2025 features a central logo with a lightbulb and the acronym SIH. The text is arranged in a clean, professional layout with a color palette of orange, green, and white. It includes contact information for student coordinators and the SPOC, as well as a QR code for registration.

CEAI Foundation for Higher Education
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IcfaiTech
Faculty of Science & Technology

**INTERNAL HACKATHON
SMART INDIA
HACKATHON 2025**

Worlds biggest open innovation model

NOTE: Each team must have 6 members and atleast one girl

Problem statements available at: <https://sih.gov.in/sih2025PS>

16th September 2025 @FST Auditorium

Scan here to register
(Themes are included in this)

Student Coordinators:
G.J.Shreyanjali
V.Lakshmi Meghana

Spoc/coordinator :
Dr.Asisa Phanigrahy



ENGINEERS' DAY CELEBRATION 2025 AT ICFAITECH

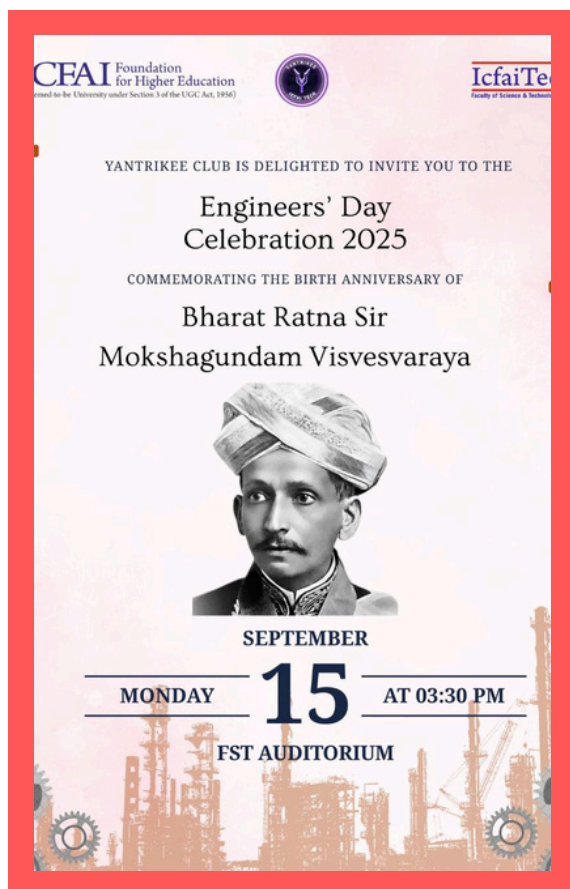
IcfaiTech, IFHE Hyderabad, celebrated Engineers' Day 2025 on 15th September to honor the legacy of Bharat Ratna Sir Mokshagundam Visvesvaraya. Organized by the Yantrikee Club, the celebration carried the theme "Engineering Innovation through AI and Creativity."

- The week-long series of events included:
- First Principles: Redefining Products with AI - Ideathon
- CodeArena - Engineers' Day Cup
- ProtoVision 2025 - Prototype Development & Pitching
- PosterMania 2025 - Creative Poster Competition

Distinguished guests, including Prof. K. L. Narayana, Director, IcfaiTech, and Dr. Vikram (PhD, IIT Madras), inspired students through their motivating addresses on innovation, research, and lifelong learning.

Over 150 students participated across multiple clubs - Yantrikee, GDG, ITEC, and LitGalore - showcasing innovation through coding, AI applications, prototyping, and creative design. Winners were honored with cash prizes and certificates in a vibrant Prize Distribution Ceremony at the FST Auditorium.

The celebration highlighted teamwork, creativity, and the spirit of engineering excellence, leaving a lasting impression on students and faculty alike.



ANTI-DRUG AWARENESS CAMPAIGN BY SPOTLIT CLUB

The **Spotlit Club** of IcfaiTech organized a powerful **Anti-Drug Awareness event on 10th September 2024** at the FST entrance, aimed at educating students about the dangers of drug use. The event featured an engaging **Nukkad Naatak (street play)** portraying real-life scenarios that highlighted how easily youth can fall into substance abuse and the severe consequences that follow.

The event drew an enthusiastic crowd of students, faculty, and staff, with live streaming ensuring wider participation. The presence of **Dr. K. L. Narayana, Director, and Dr. Anjana Matta** added prestige to the occasion.

The impactful performances, strong message, and excellent organization made the event a memorable success, reinforcing IcfaiTech's commitment to student well-being and social awareness.



TEACHERS' DAY CELEBRATION 2025 AT ICFAITECH

IcfaiTech celebrated **Teachers' Day on 5th September 2025** with enthusiasm and heartfelt gratitude at the FST Auditorium and Lawn Area. Organized collaboratively by multiple student clubs – **Asana, Yantrikee, Clapin, Litgalar, GDG, Spotlit, Dansation, and Gambol** – the event honored teachers for their invaluable guidance and inspiration.

The celebration began with a **lamp-lighting ceremony**, followed by **captivating cultural and technical performances**. Highlights included a classical dance by Dansation Club, **website launch by Yantrikee**, interactive tech **quiz by GDG**, and a humorous **drama by Spotlit Club**. The program concluded with a joyful cake-cutting ceremony at the lawn area. Thanks to the coordination by Asana Club and media coverage by Nexus Club, the event was a grand success – a fitting tribute to the mentors who illuminate the path of learning.



FAMILIARIZATION WORKSHOP ON EDA TOOLS UNDER C2S PROGRAM, MEITY

The Department of Electronics and Communication Engineering (ECE), IcfaiTech, IFHE Hyderabad, conducted a Familiarization Workshop on EDA Tools under the Chips to Startup (C2S) Program of MeitY. Coordinated by Dr. Asisa Kumar Panigrahy, the workshop aimed to enhance the technical expertise of faculty and lab staff in semiconductor design and simulation.

Participants received hands-on training on Cadence Virtuoso for digital circuit design and Synopsys TCAD Sentaurus for device modeling and simulation of diodes and MOSFETs. Sessions covered schematic design, GPDK standard cell integration, and TCAD-based analysis techniques. The initiative strengthened research and teaching capacities in VLSI and semiconductor technology, bridging the gap between academic learning and industry practices. The program was well-received by participants and marked a significant step in advancing IcfaiTech's technological and research ecosystem.



A Three-Day Familiarization Workshop on EDA Tools

15th July to 17th July 2025

Organized by
Centre for VLSI & Department of ECE

Program Highlights

- Comprehensive hands-on sessions using Cadence Virtuoso
- Step-by-step guidance on device structure creation, doping profiles, and meshing
- Hands-on simulation of N-type, P-type materials, and PN junctions using Synopsys TCAD Sentaurus

EDA tool support

Venue : Centre for VLSI
ICFAI Tech, IFHE Hyderabad

Email: coevlsi@ifheindia.org



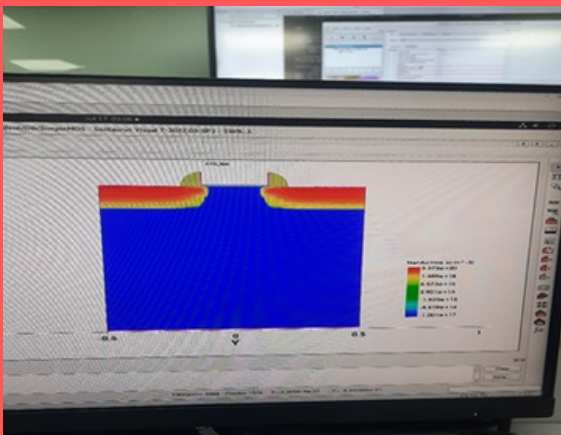
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(Chartered under the University under Section 1 of the UCC Act, 1996)
Autonomous Institution, Accredited by NAAC with "A++" Grade

ICfaiTech
Faculty of Science & Technology (FST)

CERTIFICATE OF PARTICIPATION

This is to certify that **Dr. Sudheer H** of ICFAI Tech (FST), IFHE, has actively participated in a **"Three-Day Familiarization Workshop on EDA Tools"** held from **15th July to 17th July 2025**, organized by the **Centre for VLSI, Department of Electronics and Communication Engineering, ICFAI Tech, IFHE Hyderabad**.

Program Coordinator **Primary point of contact-C2S Program** **Secondary point of contact-C2S Program** **Director-ICFAITech**



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