

VOLUME 8

MARCH

IcfaiTech Newsletter



Highlights:

**Ongoing Placement
Campus Happenings
Accentuating Research**

**Education Fair
Campus Visit
Social Visit**

FROM THE DESK OF THE DEAN

IcfaiTech, Hyderabad is emerging as the leading institute offering unique courses, curriculum, and internship opportunities. Our students are gaining eminence by leveraging the exceptional learning prospects offered by the institution. The academic expertise of our faculty members enables us to provide excellent pedagogical advantages, transforming the students into global leaders.

I am pleased to share the March edition of the IcfaiTech Newsletter with the audience.

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.



**~ Prof. A. Vadivel,
DEAN - IcfaiTech, Hyderabad**

ONGOING PLACEMENT

The prodigious students of IcfaiTech, Hyderabad have performed immensely well in the placement drives conducted in March. Exhibiting their mettle, skills, talent, and flair for Science and Technology, 10 students were placed in Wilco Source, a leading salesforce consultancy firm. This month we also witnessed 8 students being placed at Proteam Advisory. This company works in the domain of providing software licenses to its client along with providing auxiliary services including compliance reviews, audit defense, and much more.

6 brilliant students were recruited by Capital Now, a company that offers financial assistance. Further, in the recruitment process conducted by Infosys, 3 of our students were roped in by this multinational enterprise. Subsequently, Prolifics Technologies and Madhura Engineering recruited 2 of our students each.



We believe that these students will use their knowledge and innovative skills to contribute in the development of the companies, and ensure that IcfaiTech, Hyderabad is revered remarkably by the industry professionals. Also, the placement cell is working relentlessly to invite several companies for conducting placement drives, and we are hopeful that reputed organizations will be visiting the campus soon to recruit more brilliant minds of this institution.

CAMPUS HAPPENINGS

FDP on Advancements in Blockchain Technology

IcfaiTech, Hyderabad organized an online Faculty Development Programme on "Advancements in Blockchain Technology" in collaboration with the CISCO WebEx. Commencing on 7th March 2022, the sessions continued till 11th March 2022 and catalyzed relevant talks, discussions, and debates eliciting an engaging program.

The Internet plays an imperative role in core businesses. Financial aspects of the digital economy are typically centralized and use the help of national agencies such as banks and tax agencies to authenticate and settle payments and transactions. These centralized services are often manual, difficult to automate, and represent a bottleneck while facilitating a seamless digital economy. Blockchain technology, a distributed, decentralized, and public ledger, addresses these issues by maintaining records of all transactions on a blockchain network that promises a smart world of automation of complex services and manufacturing processes. A blockchain network is a peer-to-peer network and does not require a central authority or trusted intermediaries to authenticate or settle the transactions.

Eminent personalities and experts from IITs, NITs, IIITs, and renowned Indian and foreign universities introduced the fundamentals of blockchain technology and implementation approaches of the same. Also, faculty from the Department of Computer Science and Engineering, IcfaiTech, Hyderabad were resource persons of this FDP who shared insights on relevant topics. The panel addressed the participants on cryptocurrency implementation, blockchain-based smart contracts, and approaches to deploying a business network using Hyper ledger Compose.

ICFAI Foundation
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(Deemed to be University under Section 3 of the UGC Act, 1956)

IcfaiTech
Faculty of Science & Technology (FST)

A Five-Day Online Faculty Development Program on Advancements in Blockchain Technology

7th - 11th March 2022

Call for Registration and Participation

Coordinators

**Dr. Sandeep Kumar Panda
Dr. P. Pavan Kumar**



Dr. Subhrakant Panda, BITS, Hyderabad orated on cryptography and blockchain, Prof. Somnath Tripathi, IIT, Patna delivered a talk on cryptocurrency, Dr. Ashok Kumar Das, IIIT, Hyderabad engaged the audience by speaking on Ethereum, Dr. Sujata. P. Dash. BITS, and Ms. Satya Renu, IcfaiTech, Hyderabad, spoke on hands-on blockchain in separate sessions, Mr. K. Varaprasad, IcfaiTech, Hyderabad informed about applications in blockchain, and Mr. Tushar Sharma, Alumni, IcfaiTech, Hyderabad, being an employee of NVest Pvt. Ltd., Bangalore, covered the topics pertaining to blockchain in HR, and blockchain applications.

The FDP provided a complete understanding of the several concepts, theories, and practical applications pertaining to the blockchain. This program served as a platform for faculty and researchers to enrich their knowledge of blockchain technology.

CAMPUS HAPPENINGS

Guest Lecture on Advancements in Computer-Aided Engineering

Department of Mechatronics Engineering, IcfaiTech, Hyderabad invited Dr. Lachi Ram, Scientist 'F', Defence Electronics Research Laboratories (DLRL), Hyderabad to deliver a guest lecture titled "Advancements in Computer-Aided Engineering" on 16th March 2022.

Automotive design and engineering could be completely paperless within three years if computer technology and the industry's collective mindset continue to evolve at their current pace. Advances in computer-aided design and engineering (CAD/CAE) have dramatically altered the way some components and systems are being designed and engineered. Experts suggest that as much as 40% of development time for a complete vehicle can be slashed with the wider application of CAD/CAE. Combining the capabilities of surface and solid computer modelling, animation software, and powerful computers, the industry can develop vehicles cost-effectively. Using CAD/CAE, technology designers can view a concept in three dimensions, and engineers can test every aspect of a vehicle's performance.

During his lecture, Dr. Lachi Ram enabled the audience to identify numerous possibilities emerging from the applications of CAD/CAE. The session also shed light on the fundamentals of CAD/CAE, its applications, and advancements that fosters cost-efficient, technology-driven engineering solutions.



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IcfaiTech
Faculty of Science & Technology (FST)

A Guest Lecture

on

“Advancements in Computer Aided Engineering”

by

Dr. Lachi Ram

Scientist-F,

Defence Electronics Research Laboratories (DLRL), Hyderabad.

Date: 16th March 2022

Time: 11.00AM onwards

Organized by

**Department of Mechatronics Engineering,
IcfaiTech, IFHE, Hyderabad - 501203**

CAMPUS HAPPENINGS

Alumni Speaks

Alumni Relationship Cell, IcfaiTech, Hyderabad announced a series of alumni talks and webinars from some of its brightest alumni for the benefit of young and determined students ready to plunge into the field of engineering. In today's information technology-driven world that has brought numerous opportunities, the careful pursuit of choices and areas of studies are imperative.

Convened by Dr. Mowla Pavani, the Alumni Relationship Cell includes student members - Ms. B. Yasasvi, Ms. S. Abhinaya, Mr. V. Sai Rohanth, and Mr. B. Sreekar, premeditated to rope in some of the best alumni brains to help young and apprehensive students to know the world of opportunities that lie ahead for them. The Alumni of IcfaiTech, Hyderabad is currently working at reputed organizations that have etched a name and career for themselves along with fame for their alma mater. The first Alumni Talk on "Career in Information Technology" was organized on 17th March 2022 where Mr. Sainath Volma (Batch 2011-2015) hosted an engaging session. Mr. Sainath Volma is a young information security professional who is currently working with Seneca Global IT Services Pvt Ltd. He has worked in the US, Middle East, East Asian, and African countries in multiple information security roles. The event included an interactive session where both the students and faculty members were actively involved in raising various questions on cyber threat analysis. One student asked, "Can you please tell us how did IcfaiTech help you in achieving your goals?", to which Mr. Sainath Volma answered happily that he learned a lot from his faculty, seniors, and friends about important life skills



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IcfaiTech
Faculty of Science & Technology (FST)

IcfaiTech, Hyderabad

Presents
Talk
On
Career in Information
Technology



Mr.Sainath Volam (2011-2015)
IcfaiTech Alumni, Cyber
Threat Intelligent Analyst
Seneca Global IT Services Pvt Ltd,
Hyderabad

Date : 17th March,2022

Organized by
Alumni Relationship Cell (ARC) IcfaiTech,
IFHE Deemed to be University, Hyderabad-501203

Another student queried, “What is that one lesson you would suggest we should learn early in our life?”, to which Mr. Sainath Volma responds, “Time management which I learned at IcfaiTech is the most important thing in our lives and we should learn time management for achieving big things in our life”.

Prof. Bidyuth Bhattacharya, Pro Vice-Chancellor, and Prof. A. Vadivel, Dean, jointly presented the guest of honor memento to Mr. Sainath Volma, appreciating his efforts towards a successful career.

Continuing with the effort to encourage, motivate, and educate existing students of IcfaiTech, Hyderabad, The Alumni Relationship Cell invited Mr. Ankur Gupta, CFA (2003-2007) for the 2nd Alumni Talk organized on 25th March 2022. During the session, Mr. Ankur Gupta narrated the “Role of Technology in Financial Industry”. Being the Vice President, Sustainable Investing at Northern Trust Asset Management, Bangalore, Mr. Ankur Gupta applied his expertise to introduce the young students to the various aspects of technology that is applied in the financial sector, its transformative advancements, and the gamut of opportunities that is endowed by this sector for professionals, inspiring the current students to pursue this emerging field and become global leaders.

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IcfaiTech
Faculty of Science & Technology (FST)

IcfaiTech, Hyderabad
Presents
Second Alumni Talk
On
Role of Technology in
Financial Industry



Mr. Ankur Gupta, CFA(2003-2007)
IcfaiTech Alumni, Vice President,
Sustainable Investing at Northern
Trust Asset Management,
Bangalore

Date : 25th March,2022 Time: 12:00 PM - 1:00 PM

Venue: IcfaiTech Auditorium
Organized by
Alumni Relationship Cell (ARC) IcfaiTech,
IFHE Deemed to be University ,Hyderabad -501203

CAMPUS HAPPENINGS

Annual Sports Meet

Students of IcfaiTech, Hyderabad temporarily adjourned their everyday tedious schedule to appreciate the Annual Sports Meet of the institution - "ILLUMINATI 2022". Being scheduled from 30th March 2022 to 1st April 2022 at the IFHE campus, Hyderabad, this intra-university event was inaugurated by Dr. K. L. Narayana, Director, IcfaiTech, Hyderabad. In his inaugural address, Dr. Narayana invigorated the students to uphold the sportsman spirit in every sphere of their life.

IcfaiTech, Hyderabad encourages the holistic development of the learners. Along with a gamut of opportunities for academic growth, the institution provides ample scope for the students for pursuing extracurricular activities. IcfaiTech, Hyderabad has sports facilities for playing badminton, squash, table tennis, football, basketball, cricket, and much more. The institution trusts that the sports events will successfully instill the interest among budding learners to indulge in fitness and sports activities which will eventually improve their cognitive functions, keep them healthy, and enhance their academic performances. Integrating sports and physical activities into the routine of the students enhances their ability to learn and apply new skills and knowledge. It significantly and positively impacts a student's ability to apply organizational, inhibitory, and memory skills. Games and athletics not only keep the learners physically fit but also incorporate openness and friendship amongst them.

This Annual Sports Meet organized by IcfaiTech, Hyderabad enthused the students to indulge in athletics and sports such as Cricket, Football, Basketball, Volleyball, Kabaddi, Badminton, Chess, and Carrom. At the onset, 2 matches of kabaddi among the men's team were scheduled, where "Thunderbolts" and "Super-seven" emerged triumphant. Subsequently, "Phoenix" and "B.Tech blasters" clashed for the first men's volleyball match, where team "Phoenix" savored victory. Also, team "Vitality" won the first men's football match on the opening day of "Illuminati". In the men's basketball segment, 2 matches were played among the participants where "Swishkebabs" and "Chhichhores" beat their opponents. men's cricket matches where "Jollycricketers" and "Inningstars" defeated their challengers. The enthralling first day of the Annual Sports Meet came to an end with a cricket match between two teams comprising faculty members. All the faculty members of IcfaiTech, Hyderabad indulged in this friendly match captained by Prof. K.L. Narayana, Director, and Prof. A. Vadivel, Dean of the Institution.



The following days of the tournament witnessed matches between 8 other men's cricket teams, 2 women's cricket teams, 4 men's kabaddi teams, 4 women's kabaddi teams, 4 men's volleyball teams, 2 men's football teams, mixed basketball teams, mixed badminton teams, as well as mixed carrom and chess playing teams. The three days filled with fun and frolic also fostered leadership, teamwork, and communication skills, among the learners as they interacted with fellow members to confront strategic challenges.

CAMPUS HAPPENINGS

Departmental Seminars

IcfaiTech, Hyderabad organizes several webinars, departmental seminars, as well as talks for the internal stakeholders. Here is a list of such events organized in March.

Title: "Importance of Manufacturing"
Speaker: Prof. B. Bhattacharya, Pro Vice-Chancellor
Date: 14th March 2022

Title: "Lay out the research plan"
Speaker: Prof. B. Bhattacharya, Pro Vice-Chancellor
Date: 23rd March 2022

Title: Generalized Convexity and minimum compliance Truss Design
Speaker: Dr. J. R. Nayak
Organizing Department: Department of Mathematics and English
Date: 7th March 2022

Title: Start-up and its challenges
Speaker: Dr. Anjana Matta
Organizing Department: IcfaiTech Entrepreneurship Club in association with IFHE IIC
Date: 9th March 2022

Title: Economic Analysis of Finite Capacity Service System with Partial Server Breakdown and Threshold Recovery Policy
Speaker: Dr. Shreekant Varshney
Organizing Department: Department of Mathematics and English
Date: 25th March 2022

Title: Fundamental Understanding of Deep Learning and Neural Networks
Speaker: B.Hamsini, Nishita Evantikar
Organizing Department: Department of Computer Science and Engineering
Date: 28th March 2022

Title: Accessing IFHE library resources using Knimbus Library Portal
Speaker: Dr. K Pushpa, Sr. Librarian
Date: 28th March 2022

ACCENTUATING RESEARCH

Research work to reach foreign nations

The phenomenal research work of Dr. Sandeep Kumar Panda, Associate Professor, Department of DS&AI, IcfaiTech, Hyderabad will be reaching foreign academicians. The globally relevant work of Dr. Sandeep in his book "AI&ML in Business Management Rights" will be translated into Chinese by the publisher "China Science and Technology" and will be widely available in China.

In an interaction with Dr. Sandeep, he shared insights pertaining to this prodigious achievement.

Please shed light on this collaboration.

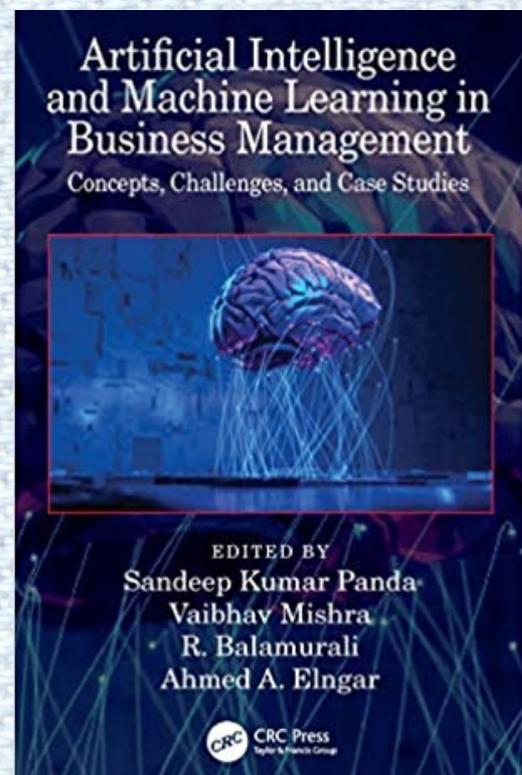
The book – AI and ML in Business Management – Concepts, Challenges, and Case Studies was initially published in the English language by Taylor and Francis, CRC Press, UK. "China Science and Technology" has bought the rights for publishing this book in China from the aforementioned publisher.

Your views on the collaboration.

I am glad that the concepts, policies, and theories presented in the book will be available to the citizens of China. I am hopeful that the policies will be implemented and adapted in China for improved business operations.

How did IcfaiTech, Hyderabad facilitate your research proceedings?

The culture and ambiance established at IcfaiTech, Hyderabad is tremendously encouraging for researchers and academicians. The supportive management, the state-of-the-art research facilities as well as laboratories, and peers brimming with innovative ideas have enabled me to continue my research work.



Your future plans pertaining to research and other collaborations?

The initial publisher of the book, Taylor and Francis is planning to collaborate with publication houses in France and Germany to translate the book in French and German. Also, further editions of the book will include the applicability of deep learning, big data systems, and blockchain technology in business management.

Dr. Sirisha Potluri's research contributions recognized by TN Global Research

Dr. Sirisha Potluri, Assistant Professor, Department of Computer Science and Engineering, IcfaiTech, Hyderabad has been awarded the prestigious TN Global Research award as "YOUNG SCIENTIST". TN Global Research is a research and development organization located in Chennai with an international research publication house- ESN Publications that encourages researchers, academicians, and scientists.

Recognizing Dr. Sirisha's immense contribution which involved 26 Scopus indexed publications, 3 edited books, and 15 paper presentations in national and international conferences, TN Global Research felicitated our faculty member, inspiring her to further contribute to the field of Science and Technology.



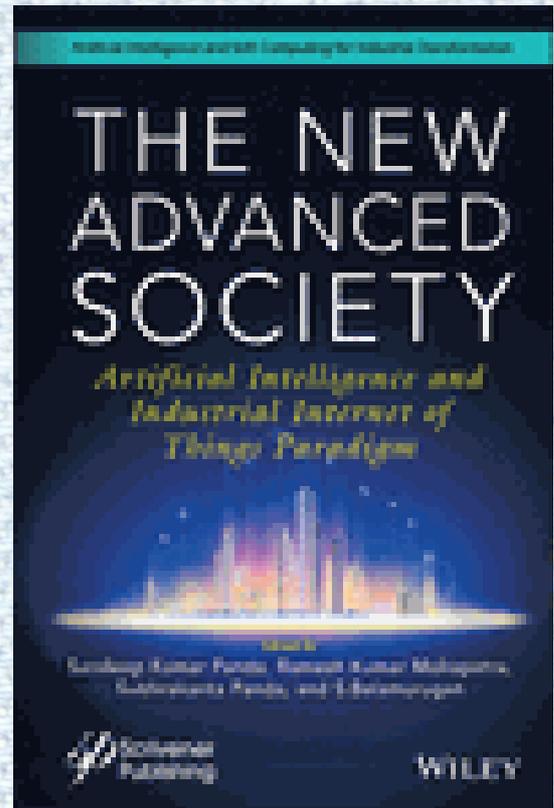
Book chapters by Dr. Sandeep Kumar Panda

Dr. Sandeep Kumar Panda has published 2 book chapters and 1 journal, as well as presented 2 papers at international conferences. Presenting a glimpse of his eminent works below.

Book Chapters:

“Distributed Ledger Technology in the Construction Industry Using Corda” published in *“The New Advanced Society: Artificial Intelligence and Industrial Internet of Things Paradigm”*

The population pertaining to the entire world has been increasing steadily over the past decades. One of the most basic requirements for the survival of humans is a shelter that could be anything from a small hut to a luxurious skyscraper, ultimately giving the construction industry a major role in this process. In comparison to many other industries, the construction industry can be termed as one of the world's most fragmented sectors due to the scattered and complex supply chain. Furthermore, this complexity moves a step higher while keeping track of the various factors involved, like the clients, architects, contractors, material suppliers, etc. Also, the complex supply chain of the globally manufactured construction products has to be managed for the sake of meeting the quality requirements and customer satisfaction.



But the lack of accountability in the construction industry sometimes leads to various types of faults, delays, and even accidents at some stages. Keeping these main points in mind, this chapter introduces a key to this dispute with the help of Corda, a distributed ledger platform for permissioned networks, inspired by blockchain technology. This helps in maintaining transparency among the actors involved in this industry, thus preventing any form of miscommunication.

To know more, visit:

<https://onlinelibrary.wiley.com/doi/10.1002/9781119884392.ch2>

"Car Buying Criteria Evaluation Using Machine Learning Approach" published in *"The New Advanced Society: Artificial Intelligence and Industrial Internet of Things Paradigm"*

People in modern world are looking for a lifestyle that is fast and easy. In the field of transportation, people have invented cars and these cars are almost seen to be owned by everyone and one is trying to purchase one. Each of these cars has different features and based on these features, people try to analyze the move towards purchasing it. Hence, in this research work, the author builds a classification model that classifies whether a customer is going to buy a car with specific features.

This research work is consisting of four machine learning models with their result analysis. These classifying models are Gaussian Naive Bayes, Decision Tree, K-Nearest Neighbors and Neural Networks.

We also try finding the best hyper-parameter value to obtain the best result from these models. These results are used to compare the accuracies of every model and decide the best model to be used in real time prediction. Here, the author was predicting whether a customer is going to buy a car or not buy a car with particular features available in it.

Hence, for this prediction the best accuracy we get is 97.4% which is given by Decision Tree classifier. Also, the neural network gives around same accuracy for the prediction. Therefore, this Machine Learning model can be used by the firm whether a new car with specific features will be sold in good quantity or not or by a customer to know whether a particular car is bought by other customers as well.

To know more, visit:

<https://doi.org/10.1002/9781119884392.ch10>

Journal Publication

" Effective prediction of bitcoin price using wolf search algorithm and bidirectional LSTM on internet of things data"

published in *"Int. J. System of Systems Engineering"*

Internet of things is the concept of establishing relationships and interactions with other connected devices through a network to reach a specific objective. The collected data from devices could be transformed into valuable insights by applying some intelligent learning algorithms. A distributed, permission less ledger called IOTA (MIOTA) manages micro transactions between multiple devices with the help of IoT.

It provides the information about the transactions made with the specific type of crypto currency in the market. In this paper, an effective crypto currency price prediction model is proposed to identify the fluctuations in currency value from the past one-year data. Wolf search optimisation algorithm selects the best performing feature subset. Bidirectional long short-term memory (BiLSTM) model is employed to train and validate the data captured from the feature selection process. The proposed model attained 93% accuracy, significantly higher than the existing methods, portrays its significance and efficacy

International Conferences

"Learning Deep Features and Classification for Fresh or off Vegetables to Prevent Food Wastage Using Machine Learning Algorithms" published in *"Intelligent Data Engineering and Analytics: Smart Innovation, Systems and Technologies"*

In the world, a huge amount of food is produced every day for the consumption of all living organisms. However, around one-third of the food produced is wasted every day. One of the reasons for the wastage of food is the lack of knowledge among the people regarding the state of the food if it is fresh or rotten. Here, we aimed to find out a way to reduce the wastage of food caused due to the mentioned reason. We developed a tool FreshYolo which uses powerful machine learning algorithms

like YOLOv4 to build a model which tells us if the vegetable is fresh or rotten. This model was also compared to another model which was built using YOLOv3 and the results showed that the model built on YOLOv4 is better than the one built on YOLOv3 as the mAp of YOLOv4(0.7863) was better than the mAp of YOLOv3(0.7433).

In conclusion, our comparison between YOLOv4 and YOLOv3 shows that YOLOv4 is more suitable for our tool FreshYolo which will help the people to know if the vegetable is fresh or rotten; thus, we can reduce the amount of food being wasted across the globe.

To know more, visit:

https://doi.org/10.1007/978-981-16-6624-7_44

"Secure Trust Level Routing in Delay-Tolerant Network with Node Categorization Technique" published in *"Intelligent Data Engineering and Analytics. Smart Innovation, Systems and Technologies"*

The nodes present in the mobile ad hoc network (MANET) can sometimes moving through the network at high speed which may result in loss in connection between the nodes; hence, the permanent connectivity between the nodes is not possible at any time. Such a network is known as the delay-tolerant network.

In such type of network, there are two types of nodes present which leads to the degradation of the performance of the network. They are selfish nodes and malicious nodes. In this paper, we have proposed a method to develop an enhanced DTN capable of handling both increased packet delivery ratio and secured routing with lesser energy consumption with the detection of selfish and malicious nodes at the earlier stage.

To know more, visit:

https://doi.org/10.1007/978-981-16-6624-7_45

EDUCATION FAIR

As a title partner along with co-participating educational institutions, IcfaiTech, Hyderabad organized Shiksha Mahotsav Educational Fair 2022 in Agra, Uttar Pradesh on 26th-27th March 2022. Dr. Sirisha Potluri, Assistant Professor, Department of Computer Science and Engineering, IcfaiTech, Hyderabad represented our institute at the Education Fair to interact with visitors and discuss study prospects and campus life. Showcasing the educational facilities offered by IcfaiTech, Hyderabad, Dr. Sirisha interacted with 650 prospective students. She informed that the students were primarily interested in programs such as B.Tech. in DS&AI, B.Tech. in CSE, B.Tech in Mechatronics, B.Tech in ECE, B.Sc. in Mathematics, B.Sc. in DSAI, and integrated courses. They were also intrigued to know about the placement opportunities, and infrastructure available at IcfaiTech, Hyderabad. The education fair not only allowed the institute to reach out to prospective students from other states but also provided insights into the preferences of the learners.



CAMPUS VISIT

Intermediate students of Deeksha Junior College visited the campus of IcfaiTech, Hyderabad on 11th March 2022. In an attempt to introduce IFHE, Hyderabad campus, its cutting edge infrastructure, and unique curriculum to the young meritorious students of the vicinity, IcfaiTech, Hyderabad hosted 150 students who were accompanied by their teachers and school's principal.

Dr. Elizabeth Zacharias, Associate Professor, Department of Physics conducted a session where she introduced IcfaiTech, Hyderabad through an engaging presentation that was followed by an interactive session with the students. The young visitors earnestly enjoyed the campus tour of IFHE, Hyderabad, as well as visited all the laboratories, and inquired much about the academic programs offered by IcfaiTech, Hyderabad.



SOCIAL VISIT

Department of Mathematics, IcfaiTech, Hyderabad along with Paritantra, a socially active club of the Institution, initiated Vidhyadaan, where the faculty and student members collected new or gently used books and donated them to students of Government High Schools located at Tanguru , Proddutoor , Maharajpet, and Janwada. While interacting with the children, the members educated them on the various benefits of book reading, as well as explained the motto of our club to them. They also encouraged the students to be environmentally responsible. Further, having a few 9th grade students being interested in participating in a summer camp, the members are planning to organize a camp that would serve as an abridged course for students transiting from 9th to 10th grade.

This humbling and illuminating experience for the volunteers enthused them to be socially responsible as well as determined them to arrange such initiatives frequently.





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