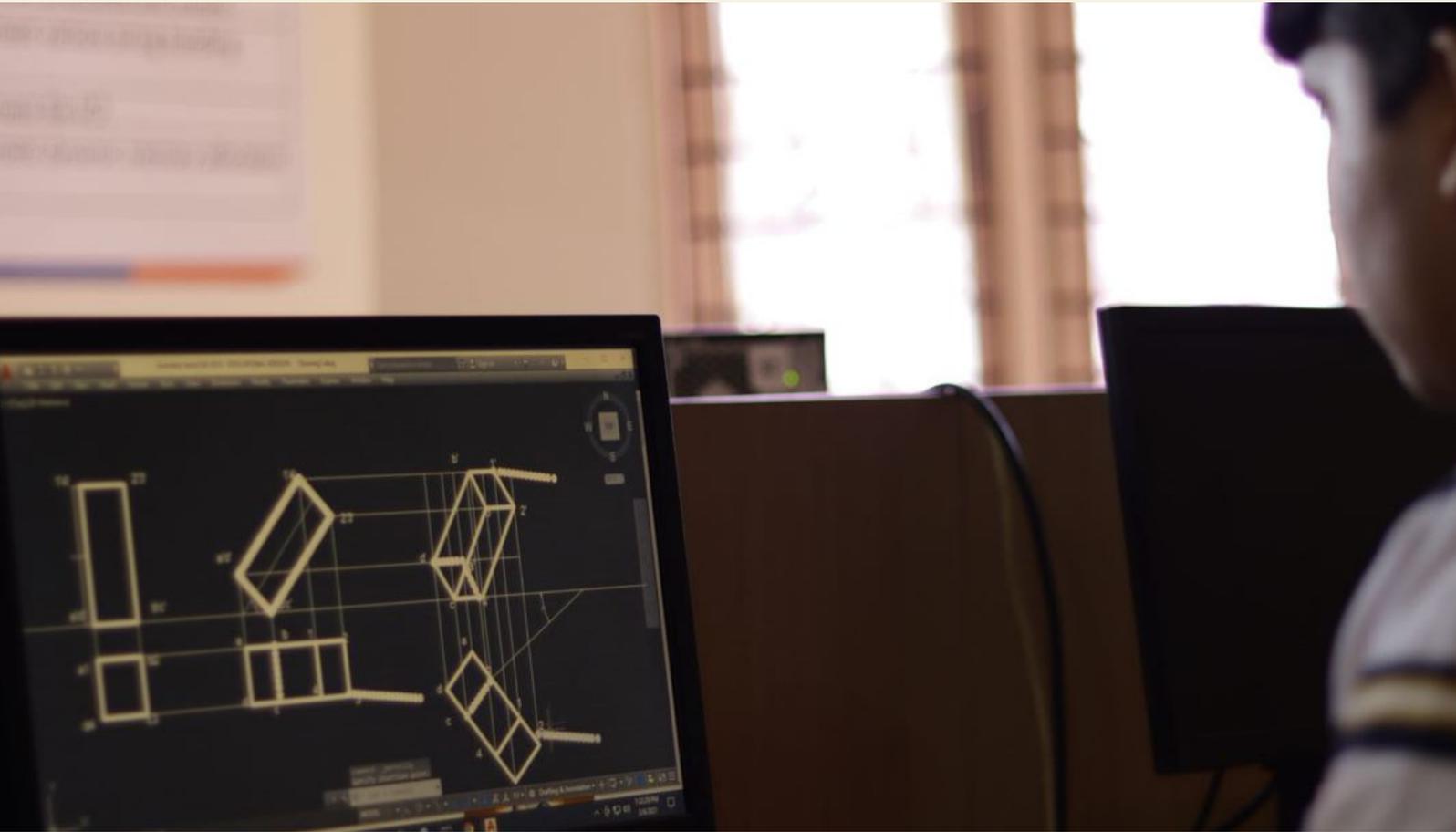


IcfaiTech Newsletter



This issue:

- Welcoming Freshmen
- Onset of Placement
- Young Achievers
- Campus News
- Faculty Corner
- Pioneering Research
- Culture of Sports

From the Dean's desk

It is an honour for me to serve as the Dean of IcfaiTech, Hyderabad, an institute dedicated to transforming academic practices for a thriving, and improved future. Our pledge to provide the best educational facilities to the learners compels us to unceasingly enhance our pedagogy, and advance knowledge in every realm of science and technology. Further, I want to extend my gratitude to all the leaders and faculty members of IcfaiTech, Hyderabad for their commitment to prepare our students to lead in a rapidly evolving global marketplace. Continuing with the passion for engaging and enriching the students, we offer an array of interdisciplinary courses, and innovative opportunities through pioneering degrees, curriculum as well as credit system. Expansively, we at IcfaiTech, Hyderabad purpose to ensure that the community we build is representative both of our heritage, and our future aspirations.

I present to you the second installment of the newsletter of IcfaiTech, Hyderabad to share narratives of our Institution. This August edition of the newsletter delves into the commencement of the new academic session where we graciously welcomed the freshmen. It also sheds light on the onset of the placement season. Further, readers will also be informed about the journey of our young achievers, eventful campus happenings, and the culture of Sports practiced at our Institution. Concluding with the glimpses of exceptional research carried out by the faculty members, this engrossing newsletter encompasses every facet of the IcfaiTech, Hyderabad that fosters global education.



~ Prof. A. Vadivel,
Dean - IcfaiTech, Hyderabad

Welcoming Freshmen

Commencement of Academic Year 2021-22

IcfaiTech, Hyderabad commences the academic year 2021-2022 on 14th September 2021 determined to provide the finest educational experience to its students. The anticipation of the new academic year is unparalleled and delightful for the students who are brimming with excitement. Amidst the horror of the pandemic, the faculty and staff of IcfaiTech, Hyderabad relentlessly worked to ensure that the academic life and career of the beloved young learners remain unimpeded. Transitioning the traditional classroom experience to remote learning involved devising strategies, developing contingency plans, and learning from experiences. Also, the initiation of this academic year encompassed researching innovative techniques, organizing, and scheduling the courses. Adhering to the government protocols, IcfaiTech, Hyderabad ensured the safety of the students without abandoning the goal of educating students and equipping them to transform the world.



IcfaiTech, Hyderabad steps into this academic year with renewed hope, joys of learning, and new opportunities for exploration and growth. IcfaiTech, Hyderabad stands for excellence with a promise to deliver the best learning experience through online mode keeping up with the safety regulations for the community. The team of dedicated teachers, coordinators, and academic leaders at IcfaiTech, Hyderabad proactively supports the students to achieve the best and become better versions of themselves. Hence, the Immersion Program for the new batch has been scheduled from 6th September 2021 till 11th September 2021, which will enable the freshmen to get acquainted with the leaders, faculty, pedagogy, and processes of IcfaiTech, Hyderabad. The institute looks forward to a very engaging and exciting year ahead!

Onset of Placement

Imparting training to create global professionals

The Placement Cell of IcfaiTech, Hyderabad is all set to initiate the placement drive for the 2022 batch. The Placement Cell guides the final year students in excelling the placement drives and achieving a successful career by organizing mock Interviews and exploring various avenues for their placement. Gearing up for the upcoming placements, Regular Aptitude Tests, Mock Group Discussions, Mock Personal Interviews, Technical Interviews, Motivational Lectures, Expert Lecture/ Industry Talks, Finishing School Programs, Industry-Academia Conclave, Industrial Visits & Internship, and Personality Development Programs are some of the key activities organized by the Placement Cell.

Further, the students of IcfaiTech, Hyderabad are exposed to real-time work experience through the Internship Program that prepares the students to confront diverse challenges in their professional life. The controlled stimulation of the real-life adopted at IcfaiTech, Hyderabad creates the circumstances and a formal method whereby the educational institution is linked with the industrial units, scientific laboratories, public sector undertakings, manufacturing units, and other organizations. Also, supervised by the faculty members of IcfaiTech, Hyderabad in consultation with the industry mentors, the students are equipped to emerge as global professionals, thus, often getting absorbed in the companies as regular employees.

Young Achievers

Candid conversation with the Star Performer

NITISH GATTEPALLI, Department of Computer Science and Engineering, IcfaiTech, Hyderabad has been offered a whopping 8.1 LPA for the position of Software Development Engineer at a Fintech startup. Being offered the highest salary package of this placement season, we requested Nitish to share the “secret sauce” of his success, which would inspire his juniors to follow suit.

1.Introduce yourself.

I'm Nitish, graduated in CSE from IcfaiTech, Hyderabad in 2021. I am working as a Software Development Engineer at a Fintech startup based in Hyderabad. I love to build software leveraging on latest technologies. I like Math, playing logical games, and solving puzzles such as Rubik's Cube. I also play basketball and played guitar at school and college events.

2. What interests and intrigues you?

Real-life problems interest and motivate me to form solutions through technology. I am fascinated by emerging technologies and strive to develop solutions that can impact people's life.

3.What was your daily academic routine?

My daily academic routine was filled with maintaining notes given by my professors, reading study material, and practicing questions. I sometimes tried to apply my learnings in the classroom by developing computer programs that could solve complex logical problems, usually which cannot be done by hand.

4.Share insights about the projects that you have worked on.

I have worked on Fruits Image Classification in which I developed an image classification model using CNN to identify the fruit in an image with 86% accuracy using the Fruits-360 dataset in Kaggle. Python, and Keras. I have also worked on a Pet Care Web Application, which is a portal to help pet owners find their lost pets, and report about stray pets. My other projects include Applied CRUD operations where I created a dashboard to administer the data, Foodielog Android App which is a social media application for foodies where users can share food images and videos, follow other users, search among hundreds of thousands of dishes, search recipes by ingredients, and ask/answer questions in the community. In addition, I designed an attendance management system called Attendance Repository Desktop App. It renders a GUI for marking and managing student attendance and applies filters to get customized results.

5.How did you prepare for the placement drive?

My preparation strategy involved studying Computer Science subjects such as Data Structures & Algorithms, Operating Systems, DBMS, and Computer Networks. I also used to practice coding questions based on DSA from online platforms regularly which helped me in cracking interview questions on coding. Apart from these, my projects, which I have already mentioned, added great value to my profile.



6.How much time did you devote to prepare yourself for the placement drive?

I devoted at least 30 minutes to one hour a day to revise the concepts of core CS subjects for 1 – 2 months along with doing regular competitive programming.

7.Shed light on the company that selected you, your job role, and the salary package.

I received an offer of 8.1 Lakh from a Fintech startup based in Hyderabad. My role in the company is to design and develop software products using the web and mobile technologies.

8.Tell us about your goals and future plans.

I wish to become an entrepreneur in the future and see myself innovating and working on solving the problems of the world.

9.What would you advise your juniors?

My advice for my juniors is to follow their passion and work hard for it.

Faculty Development Programme on Digital Additive Manufacturing (3D printing)

DIGITAL ADDITIVE MANUFACTURING (3D PRINTING) is an emerging concept that creates three-dimensional solid objects using a digital file. Consequently, the concept has rapidly gained immense popularity. IcfaiTech, Hyderabad has organized a Five-Day Online Faculty Development Programme on DIGITAL ADDITIVE MANUFACTURING (3D PRINTING). Commencing from 6th September, the program will continue till 10th September with the primary objective of exploring the fundamentals and advances in 3D Printing. The Coordinators, Dr. A. Manmadha Chary, and Dr. Barla Madhavi aim at providing a common platform for the audience to interact with the experts of the field regarding advanced techniques used in additive manufacturing, as well as their applications in biomedicine, automobile, and aerospace, and recent developments.

In addition, this program has been designed to address the nuances of online teaching for improved delivery of professional content. The lectures will be delivered by eminent personalities and experts including Dr. U. Chandrasekhar, Program Director, AddWize at Wipro-3D, Bangalore, Dr. K. Guruprasad Rao, Director & Mentor, Imaginarium, Mumbai, Dr. S.V.S Narayana Murthy, Vikram Sarabhai Space Center, Trivandrum, Dr. Dheepa Srinivasan, Research Scientist, GE Power, Bangalore, Dr. Gururaj Telsang, Scientist-E, ARCI Hyderabad, Dr. K. P. Karunakaran, IIT Bombay, Dr. Nor Aiman Sukindar, IIUM Malaysia, Dr. Y. Ravi Kumar, NIT Warangal, Dr. Sriram Venkatesh, Osmania University, Dr. L. Siva Rama Krishna, Osmania University, Dr. A. Manmadha Chary, IFHE Hyderabad, and Mr. K. Rakesh, VSD3D Enterprise, Hyderabad.

ICEAI Foundation for Higher Education
(Deemed-to-be University under Section 3 of the UGC Act, 1956)

IcfaiTech
Faculty of Science & Technology (FST)

A Five-Day Online Faculty Development Programme on

DIGITAL ADDITIVE MANUFACTURING (3D PRINTING)

6th – 10th, September 2021

Call for Registration and Participation

Coordinators
Dr. A. Manmadha Chary
Dr. Barla Madhavi



Organized by the
Department of Mechatronics Engineering
IcfaiTech (Faculty of Science and Technology)
ICEAI Foundation for Higher Education (IFHE),
Hyderabad-501203

Conducted via online mode, the FDP will limit to 50 participants who will be provided with a digital certificate for attending all the sessions of the program.

Workshop on “Applications of Computational Fluid Dynamics”

Department of Mathematics & English, IcfaiTech, Hyderabad organized “Applications of Computational Fluid Dynamics”, a 2-day workshop on 30th & 31st August 2021, 10 AM onwards. This workshop introduced the participants to the basic physical aspects of fluid mechanics and applications to passive systems, e.g. flow past a rigid sphere, spherical drop, etc., and active systems, e.g. swimming of micro-organisms and bacteria, turbulent flow in a pipe, etc. This workshop offered insights into a few theoretical, and numerical techniques that enable comprehension of models such as forces on a body moving in a viscous fluid, simplification of the Navier-Stokes equations for slow motion, passive rigid spherical particle in a viscous fluid, swimming of microorganisms in a viscous fluid, turbulent flow fields, simple flow fields, hydrodynamic interactions, and boundary conditions numerical techniques.

Further, this course introduced the participants to some themes associated with the evolution of equations that intended to enhance the basic knowledge of theoretical and computational concepts. The dissemination of knowledge through this brief workshop advanced the budding researchers, engineers, and practitioners in their research pursuits.

Schedule:

10.00 AM – 10.05 AM:- Welcome address by Dr. G. Sudhaamsh Mohan Reddy, Department Coordinator, IcfaiTech

10.05 AM – 10.10 AM:- Special Address by Dr. A. Vadivel, Dean, IcfaiTech

10.10 AM – 10.15 AM:- Guest of Honour by Dr. M. Srinivasa Reddy, Director, IcfaiTech

10.15 AM – 10.20 AM:- Overview of FDP by Dr. Anjanna Matta, FDP Coordinator, Department of Mathematics, IcfaiTech

Workshops/Seminars

1."A Smart Display Menu for Customizing the Performance using AI Cameras"

Speaker: Mr. Brahma Naidu

Date: 13th August 2021

Organizer: Department of CSE

2."Enhancing scalability, fault-tolerance and energy efficiency in extreme scale systems"

Speaker: Dr Amogh Katti

Date: 16th August 2021

Organizer: Department of CSE

3."Different Variants of Unreliable Server: An Economic Approach"

Speaker: Dr. Shreekant Varshney

Date & Time: 17th August 2021 at 3:00 PM

Organizer: Department of Mathematics & English

4."Efficient Resource Management for Fog Computing"

Speaker: Mr. Sudheer Kumar Battula

Date: 20th August 2021

Organizer: Department of CSE

5. "Ensembled Techniques in Data Science / ML /AI"

Speaker: Dr. B.Seetharamulu

Date: 23rd August 2021

Organizer: Department of CSE

6."Internet of Things or Internet of Threats? The Surge of Attacks and Possible Security Framework"

Speaker: Dr. Rashmi Sahay

Date: 24th August 2021

Organizer: Department of CSE

7."A study on weld defects classification in GMAW process using Machine Learning techniques"

Speaker: Dr. Syed Quadir Moinuddin

Date & Time: 27th August 2021 at 4.00 PM

Organizer: Department of Mechatronics Engineering

8.Workshop on "From Learning to Read to Reading to Learn-Strategies of Reading"

Coordinator: Dr. Loreina Pagag, and Dr. Swathi Mulinti

Date & Time: 30th August 2021 at 12:00 PM

Organizer: Department of English

9."Independent control over center frequency and bandwidth of bandpass filter based on SIW loaded with rectangular mushroom resonators"

Speaker: Mr. Soumit Samadder Chaudhury

Date & Time: 30th August 2021 at 4:00 PM

Organizer: Department of ECE

10."Blockchain-based E-Cheque Clearing Framework"

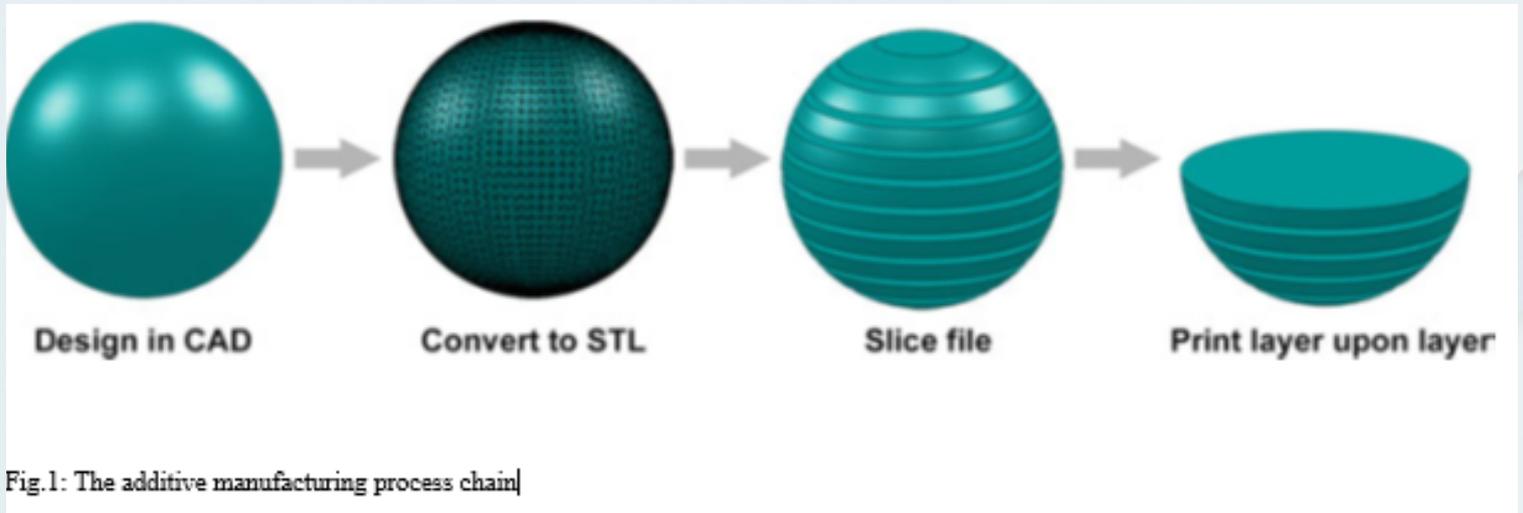
Speaker: Dr. Nikita Singh

Date & Time: 30th August 2021 at 4:30 PM

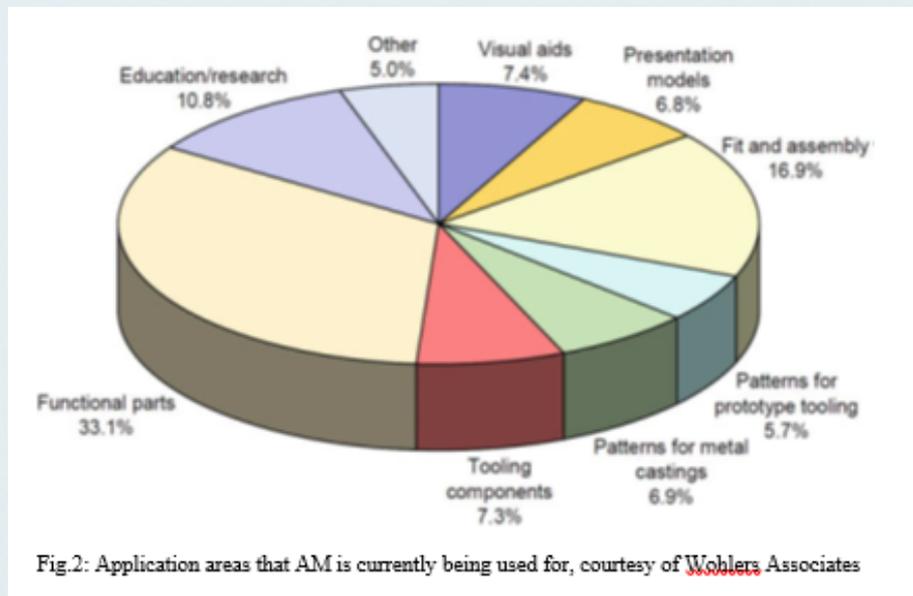
Organizer: Department of CSE

Additive Manufacturing-- The life-changing Technology - Mr. Avinash Malladi, Dept. of Mechatronics

The current scenario of Manufacturing is getting replaced with a new face of Digital Manufacturing with the trending name as 3D printing. This 3D printing is one of the branches of Additive Manufacturing (AM) which is pervading the manufacturing sector with its technologies. The researchers extending the flexibilities of AM into various applications, like from customized designing of jewelry, prototypes, replacing the automotive components, etc., even to the level of food making, Chip Board manufacturing, and replacing the biological functional organs. The process flows in initial work through Computer-Aided Design (CAD) and linking the designed part with respect to the machine with exchanging the data with a stipulated format by which the part is manufactured.

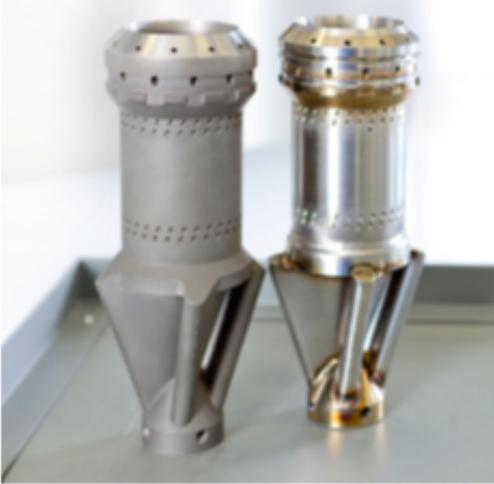


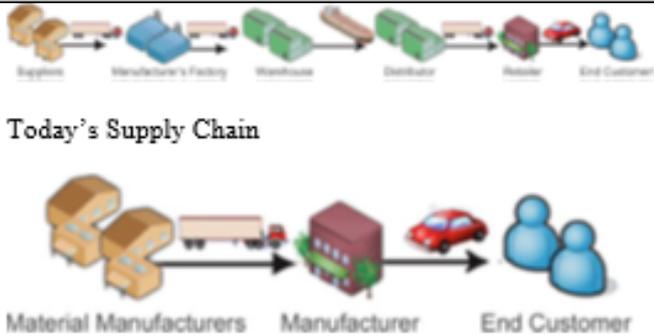
The AM process uniqueness is binding the layer on layer of the material in the given direction through CAD model and by projecting towards the z-direction, the manufacturing will be getting done.



The Advantages of Additive Manufacturing:

AM can be an expensive process, so in order for its use to be profitable as a production method, it must bring added value to a product. This can either be through reducing life cycle costs for the product or through enabling a higher price to be charged to the customer.

S. No.	Description	Images
1.	Part Complexity	 <p data-bbox="683 817 1391 873">Examples of geometrically complex forms that would be hard, or impossible to make with traditional manufacturing</p>
2.	Instant Assemblies	 <p data-bbox="683 1417 1407 1507">Siemens turbine burner, courtesy of Siemens. This part would be impossible to machine, or cast, as a single piece, but can be made through additive manufacturing</p>
3.	Part Consolidation	 <p data-bbox="683 1901 1391 1991">This drone used part consolidation to manufacture the entire drone with only six core components (excluding the company labels). In a larger machine, it could have been made as only two components</p>

4.	Mass Customization	 <p>CNC-machined aircraft seat frame (left), rough topology optimized version (centre), and finished design (right)</p>
5.	Freedom of Design	 <p>Individually customized prosthetic</p>
6.	Light-Weighting	 <p>Geometrically complex skull-shaped microphone. This products could not have been cost-effectively made using traditional manufacturing methods</p>
7.	On-Demand Manufacturing	 <p>Today's Supply Chain</p> <p>Tomorrow's Supply Chain</p>

Further, details about the topic and for more detailed information readers are encouraged to attend the FDP on 3D printing organized by Dept. of Mechatronics, IcfaiTech IFHE from 6th to 10th September 2021. Thus making a tomorrow world through AM is happening and soon the diversified technologies even enhance the daily life with them.

Faculty Corner

Welcoming Faculty

IcfaiTech, Hyderabad graciously welcomes Mr. Soumit Samaddher Chaudhury as the Faculty Associate in the Department of Electronics and Communication Engineering. Mr. Soumit has submitted his Ph.D. thesis to the Indian Institute of Information Technology, Allahabad.



Faculty Achievement

Journal Publications

1. Panda, S.K., Satapathy, S.C. Drug traceability and transparency in the medical supply chain using blockchain for easing the process and creating trust between stakeholders and consumers. Personal Ubiquitous Computing (2021), Springer. <https://doi.org/10.1007/s00779-021-01588-3>, SCIE IF: 3.006
2. Panda, S.K., Satya, A.R. Securing Electronic Health Record System in Cloud Environment Using Blockchain Technology. Accepted. Multimedia Tools and Application (30 August 2021), Springer, SCIE IF:2.757



Guest Lecture Delivered

1. Dr. Sandeep Kumar Panda was invited as a resource person for Thought Provoking, Action-Oriented and Impactful Technical session address on “Blockchain Technology: Applications and Challenges” In Faculty Enrichment Program on Computational Methods for Artificial Intelligence, Machine Learning and Blockchain Technology at Amity University, Haryana, India.
2. Dr. Sandeep Kumar Panda was invited as a speaker to address the technical session on “Blockchain: 3C, Concepts, Challenges and Case Study” In Faculty Development Program on Challenges and Opportunities in Cyber Security with Current Tools and Techniques: A Research Perspective at CMR (Autonomous) Engineering College, Hyderabad, India.

Session Chair

1. Dr. Sandeep Kumar Panda Chair the Session at the International Conference on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET 2021), Springer. 27-28 August, 2021.

Pioneering Research

Dr. SUDHEER HANUMANTHAKARI, Department of Electronics & Communication Engineering, IcfaiTech, Hyderabad patented two of his works titled “IoT and Cloud-Based Viral Detector Device: Microca”, and “IoT and Cloud-Based Agricultural Monitoring System”. Internet of Things (IoT) and Cloud-Based systems are popularly emerging genres of science and technology that allow systems to be automated cost-efficiently, thus, supporting real-time control and data monitoring.



The first invention of Dr. Sudheer addresses medical problems impairing human lives. The COVID-19 pandemic has stirred the entire globe and compelled us to comprehend the importance of maintaining personal hygiene. In his invention, Dr. Sudheer brought up the novel prototype model of “Microca” -A germ detector device™. It involves a lateral float immunoassay that swiftly detects viral and bacterial infection when the person is subjected to a hand scan. The Microca™ presents a UV scanned image which is sent to the microcontroller for processing. The results are compared with the database integrated with the cloud to predict the percentage of infection. In fixing the prototype of Microca™, Dr. Sudhher has dynamically operated and trained the medical database to visualize its actual bid and accuracy percentage, enhancing its precision. Further, the slight size of the portable instrument aids in upholding sterile and higher hygiene settings in hospitals, and other regions where there is higher exposure to deadly pathogens.

The second patent of Dr. Sudheer is a novel IoT-based device that is programmed to sense and record different crop pests that damage the agriculture field in various settings. This portable box-shaped instrument attracts targeted insect pests, intellects the pest movement, and robotically takes a snapshot of the integral space inside the box. This agriculture-based insect e-trap comprises strong attractants (pheromone and food) to upsurge the insect arrest efficiency. The e-device transmits the primary optoelectronic radars to monitor all trapped entries. As the pest enters, it intrudes the ultraviolet light source, eliciting a detection event, and snaps a picture. This information along with a time-stamp is sent through the Wi-Fi to an approved stakeholder. With an accuracy rate of 90-95%, this device can be integrated seamlessly into different agriculture settings and functions.

Culture of Sports

Tokyo 2020 Olympics had been an exhilarating success for our country as Neeraj Chopra stunned us with his exceptional men's javelin throw that brought home the gold medal. Also, Mirabai Chanu and Raavi Kumar Dahiya won silver medals in women's 49 kg weightlifting and men's 57 kg wrestling respectively. Continuing the winning streak, bronze medals were won by Lovlina Borgohain for women's welterweight boxing, PV Sindhu for women's singles badminton, Bajrang Pubnia for men's 65 kg wrestling, and the Indian Hockey Team.

The honour of showcasing the talent and being recognized by the entire world at the Olympic Games had been inspiring the youth for ages. Olympics has successfully instilled the interest among budding learners in fitness and sports which eventually improves their cognitive functions, keeps them healthy, and enhances their academic performances.

Integrating sport and physical activity into the routines of the students enhances students' 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.

IcfaiTech, Hyderabad has sports facilities for playing badminton, squash, table tennis, football, basketball, cricket, and much more. We aim to increase participation by making it fun and accessible to all the students. In addition, IcfaiTech, Hyderabad organizes annual sports meet every year to encourage and inspire them to indulge in sports, devote time to it, and if determined, conquer the world through it, making India proud as the stars did at the Tokyo Olympics 2020.



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