

**SKCET**

**Buzz**



22<sup>nd</sup> - 28<sup>th</sup> July 2023



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# INSTITUTIONAL EVENT



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## SKCET | NEP ALIGNMENT DISCUSSION - TCS



SKCET: CSBS & NEP alignment Discussion at TCS, Kolkata on 25.07.2023

Our **Principal Madam Dr.J.Janet** was invited for the discussion about NEP along with **Mr.Asoke Das Sarma**, Vice President, TCS, Kolkata and **Dr.Bimal Roy**, ISI, Kolkata. The impact of major and minor subject / discipline of promoting interdisciplinary thinking, flexibility of multiple entry and exit path, the best practices of SKCET and current recommendation of NHEQF to strengthening Industry - Academia for increasing employability of students were the pointers of discussion.

**Dr.S.Balakrishnan, HoD-CSBS** discussed the process in Alignment of CSBS curriculum with NEP and specialized Internship and job opportunities for students.

**Mr.Asoke Das Sarma**, Vice President, TCS and **Dr.Bimal Roy**, ISI highly appreciated the initiatives of SKCET in teaching learning process. The meeting successfully concluded by exchanging ideas and opinions on implementing National Education Policy.



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HACKATHON  
ACCOLADES



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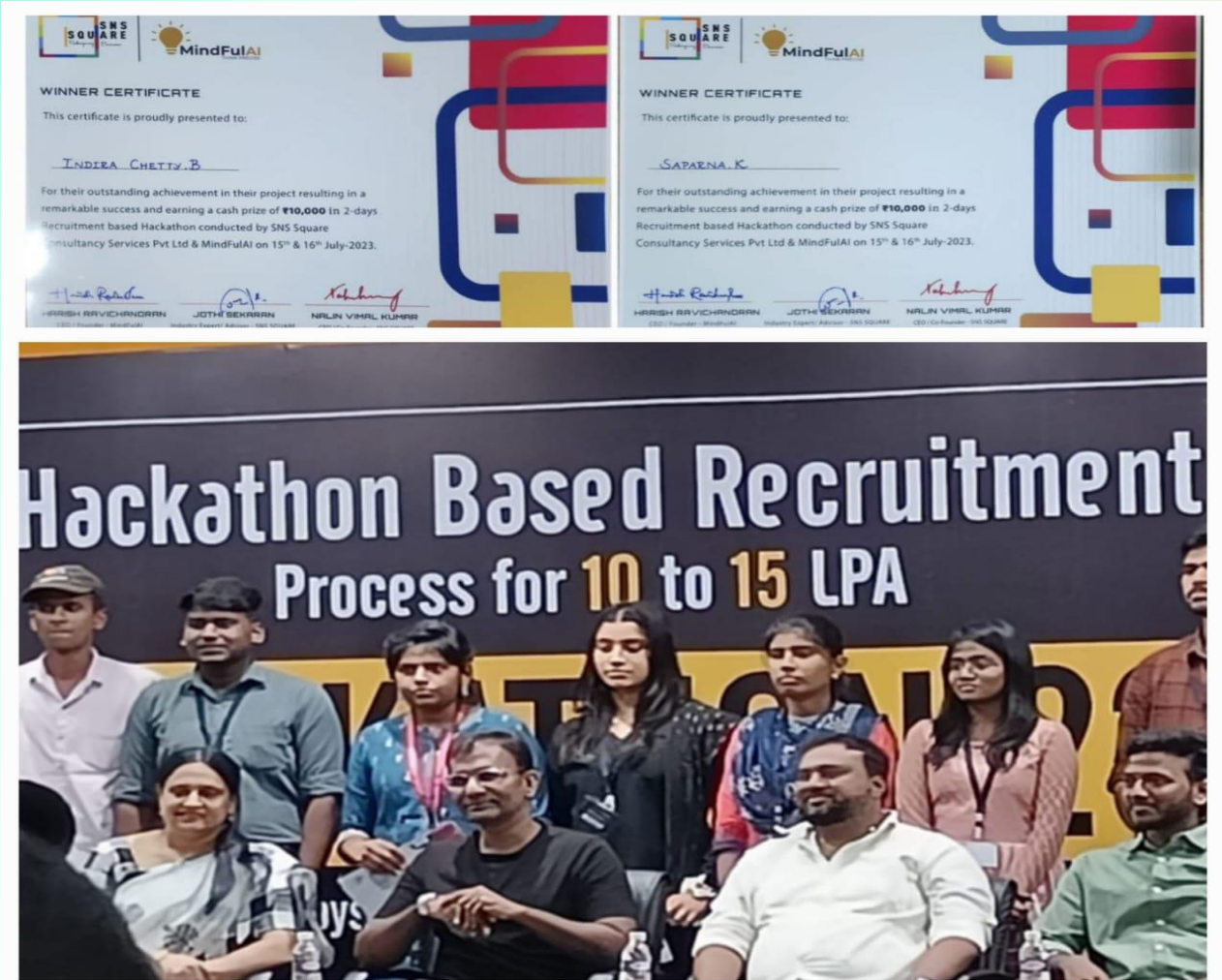
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# AI&DS | MINDFUL AI HACKATHON



Student team of Final year **AI&DS** Department has won Second prize with the cash reward of Rs 10,000/- in the **Mindful Hackathon** organized by **SNS square Consultancy Service Pvt Ltd** in association with service based startup firm Mindful AI, Bangalore, held on 15th and 16th July 2023.

Project Title: Peer2peer

Team members:

**Indira Chetty B and Saparna K.**



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PROGRESSION



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## MECH | INTERNSHIP @ LUCAS TVS



**R.Madhavan,** Final year  
**Mechanical Engineering** student  
has successfully completed his  
internship training at Lucas TVS,  
Chennai from 3.07.23 to 15.07.23.  
The officials of the industry lauded  
him for his involvement in learning  
new concepts.

## MECH | SUMMER INTERNSHIP @ IIT PALAKKAD

**M.Tamilarasu,** student of Final year  
**Mechanical Engineering** has  
actively participated in the Summer  
Internship offered by Indian Institute  
of Technology, Palakkad in  
Manufacturing Engineering.





## MECH | SUPRA 2023



Team **GEOPARD RACING** from the Department of **Mechanical Engineering** represented SAE INDIA SKCET Collegiate Club and has secured a top 18<sup>th</sup> rank out of 38 teams in the National Level SAE INDIA SUPRA 2023 Event held at Buddh International Circuit, Gr.Noida.

### Team Members:

- RUBA VIGNESH M K
- JASHWANTH.S
- JEFFRIN.J.R
- INDUPRAKASH S
- MAHI KAARTHIK G
- PRAVEEN D
- PRAJWAL P G SHASTRY
- MITHUN BHARATHY.K.S
- SIVAGURU.B
- SIVASHANMUGAM.S
- SARANSHARVESH.T
- SHIVANSHU
- AYSHWARIYAA DEVI.R
- NIKESH.A.R
- NIRANJAN.R
- PRADEEP.P
- RAGHUL.A
- RISHIVARDHAN
- SANJAY.L
- SARATHI RAJ.R
- SIBIRAJ.P
- JEBEEN DHAS.A
- KARTHICK KUMAR.S
- RIYA SAMPREETA.V
- SUNIL KUMAR.S

## MECH & MCT | ELECTRIC TWO WHEELER DESIGN COMPETITION



Team **Electrovolt** comprising of students from the Department of **Mechanical & Mechatronics Engineering** represented SAEINDIA SKCET Collegiate Club. The team has secured 2 awards in the SAE India **ELECTRIC TWO WHEELER DESIGN COMPETITION (ETWDC 2023)** organized by SAE ISS from 22.07.2023 to 23.07.2023 at Rajalakshmi Engineering College, Chennai. Mr.A.Sathishkumar, Assistant Professor, Mech has received special appreciation for his significant contribution.

- Overall **Third prize** with a cash prize of **Rs.25,000/-** (First place in Southern region)
- **First prize** in the Maneuverability test with a cash prize of **Rs.15,000/-**

### Team Members:

- Nithish Kumar - IV MECH
- Pravin B - IV MECH
- Padmaraj K S - IV MECH
- Mohamed Izaz H - IV MECH
- Ratchagan M - IV MECH
- Mukesh Kannah V - IV MECH
- Riya Sampreeta - I MECH
- Gurunathan L - IV MCT
- Nishanth V - IV MECH
- Kavinesh B - IV MECH



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## EVENTS



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# M.TECH CSE | ASSOCIATION AND TECH TALK ACTIVITIES



**GGLAZIUS Association of M.Tech. CSE & CSD** organized an Expert talk on **“Modern Industrial Agile Practices for Software Development”**. The resource person for the event was **Ms. Vanishree Venugopal**, Project Lead at Tech Mahindra, Chennai.

**Session Highlights:** Agile Methodologies, Devops, Modern S/W development Practices. A **Tech Talk** event was also organized, where students had an opportunity to present their innovative technical ideas to their peers and faculty members. **Dr. P. Kavitha Rani, Professor & Head, M. Tech CSE** felicitated the prize winners.

**Winners:**

**First Prize:** Kavin Kishore L- III MTech CSE,

**Topic:** Neuromorphic Computing

**Second Prize:** Adhithyan - III MTech CSE

**Topic:** Quantum Computing

**Third Prize:** Vishruthi K B and Harini-III MTech CSE

**Topic:** 3D Bioprinting and Virtual Reality



## CSD | INTERACTION WITH FIRST YEAR STUDENTS



Dr. P Kavitha Rani, Professor and Head, **Computer Science and Design** addressed the **First** year students and discussed about the importance of continuous learning, latest trends and advancement in the field of Digital Analytics, Mobile App Development, Cyber security, Industrial Instrumentation & Control and Nano Technology. Students were encouraged to take proactive steps towards their skill development and career growth and provided valuable insights and guidance based on their queries and discussion.

# CIVIL | RAIN WATER HARVESTING SURVEY



Student team from the Department of Civil Engineering along with **Dr.M.R.Ezhilkumar**, Assistant Profssor, **Civil**, volunteered for the **Rain Water Harvesting Structure Survey** organised by Associates of Intellectual Mission (AIM) NGO and Coimbatore Municipal Corporation. The survey was headed by **Mr. Thirunavukarasu**, AIM NGO and **Mr.Poovalingam**, EE (Rtd), TWAD board, GoTN. The survey was conducted on 18.07.2023 and 19.07.2023 in Selvapuram region, Coimbatore.



# CIVIL | RAIN WATER HARVESTING SURVEY



## STUDENT VOLUNTEERS

S. No	Name of the student	Year of study
1	NAVINKISHORE K	III Year
2	SREE RAM NM	III Year
3	VARUNKUMAR R	III Year
4	VIGNESWAR NAGENDHIRAN R	III Year
5	SUJAN H	IV Year
6	PRAVIN S	IV Year
7	SIDISHWAR M	IV Year

## EEE | MODERN STUDIES AND IMMIGRATION ABROAD FOR ENGINEERING MODERN GRADUATES



Department of **Electrical and Electronics Engineering** conducted an Awareness Session on '**Modern Studies and Immigration Abroad for Engineering MODERN Graduates**' on 20.07.2023.

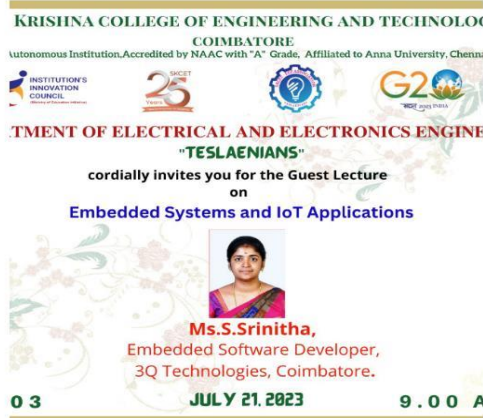
**Resource Person:** Mr. Karthik Rengarajan, Institutional Head - BDM, Bluestone Overseas, Coimbatore.

### Session Takeaways:

- Career counseling for Higher studies in Abroad
- Significance and Benefits of studying abroad
- Eligibility criteria and further requirements for the higher studies in countries like USA, Canada, Germany, Ireland, Australia and Singapore.
- Overview on Whole registration and selection process.
- Useful study tips for success in IELTS/PTE.
- Practical lessons on self- defense techniques.



## EEE | EMBEDDED SYSTEMS & IOT



Department of **Electrical and Electronics Engineering** conducted a Guest Lecture on '**Embedded Systems & IoT Applications**' for the **Final year EEE** students on 21.07.2023.

**Session Speaker:** Ms.S.Srinitha, Embedded Software Developer, 3Q Technologies, Coimbatore.

### Session Takeaways:

- Key Skills of an Embedded Software Developer
- Advanced IoT techniques used in Industries
- Placement and Intern Opportunities
- Trends in Embedded Technologies
- Development of Projects using Arduino

# AI&DS | WORKSHOP ON FULL STACK WEB DEVELOPMENT



As a part of **National Technology Day**, Department of **AI&DS** and **M.Tech-CSE** organized a Hands on Workshop - **Full Stack Web Development** on 20.07.2023

## Resource Person:

Mr.Prabhakaran V M,  
Project Head & CEO,  
Visaithalam Solutions,  
Coimbatore.

## Session takeaways:

- CSS Basics
- CSS to HTML and Selectors
- Applying JavaScript
- Document and Window Object
- Template using JSX
- Node js - Basics and Setup



# AI&DS | BUSINESS ANALYTICS & AGILE



Guest Lecture on **Business Analytics and Agile Frameworks** on 21.07.2023

**Resource Person:**

Ms. Tharani Kumar,  
 Project Manager,  
 Tata Consultancy Services,  
 Chennai.

**Session Takeaways:**

- Business Analytics
- Strategies for Fitting Refactoring into your Sprints
- Analysis of Agile Project Management Procedures
- Agile Game Development Using Scrum
- Relationship between Lean-Agile and Leagile Source Chain

## MECH | GUEST LECTURE ON GEOMETRIC DIMENSIONING AND TOLERANCE



Inauguration of the Association of Mechanical Engineers and SAE – India SKCET Collegiate Club was organized on 21.07.23. The inaugural was followed by a guest lecture on “**Geometric Dimensioning and Tolerance**”. The Chief Guest and Resource Person for the event was **Mr. Joshinth Suresh**, Product Design Engineer, Mercedes Benz. The session concentrated on Geometric Dimensioning & Tolerance, Features and Geometry, Importance of the Tolerance Analysis and GD&T Symbols. The Office Bearers for Association of Mechanical Engineers and SAE-India SKCET Collegiate Club were inducted for the Academic Year 2023-2024.



## CSBS & CIVIL | IIC EVENT



Department of **Computer Science and Business Systems** and **Civil Engineering** in association with **IIC** organized a One day Level 2 Event on **“Innovation and Entrepreneurship Outreach Program in Schools”**.

### Programme Agenda:

- Session on Innovation by Mr.N.Ramachandran, AP/Mech
- Session on Entrepreneurship by Dr.G.Ignisha Rajathi, ASP/CSBS
- Sparktalks by Mr.Jesudass Ambrose, AP/CIVIL
- Sparktalks by Vishal and Sasidharan, III CSBS
- Quizzards – 10 teams with 3 rounds
- Best Manager – 8 Teams with Problem solving for on the spot scenarios

The winners were felicitated with certificates and prizes for the two competitive events at Chinmaya Vidyalaya Matriculation School, RS Puram, Coimbatore on 24.07.2023 . The Principal of the school greatly admired and appreciated our initiative and affirmed that the day has been technically spent sound.

## CSBS | OUTREACH ACTIVITY



Kuniyamuthur, Tamil Nadu, India

#19/19A, Muthusamy Servai St, Rajaji Nagar, Kuniyamuthur, Coimbatore, Tamil Nadu  
641008, India



Kuniyamuthur, Tamil Nadu, India

#19/19A, Muthusamy Servai St, Rajaji Nagar, Kuniyamuthur, Coimbatore, Tamil Nadu  
641008, India  
Lat 10.961928°  
Long 76.953575°  
21/07/23 01:08 PM GMT +05:30



Kuniyamuthur, Tamil Nadu, India

#19/19A, Muthusamy Servai St, Rajaji Nagar, Kuniyamuthur, Coimbatore, Tamil Nadu  
641008, India  
Lat 10.961928°  
Long 76.953576°  
21/07/23 01:08 PM GMT +05:30



The **Department of Computer Science and Business Systems** in association with **NSS** conducted an outreach activity for the School students of Government High School, Kuniyamuthur, on 21.07.2023. The students enthusiastically participated in the Art Competition on the theme Water Conservation and **Ms. F. Margret Sharmila**, Assistant Professor, **CSBS**, raised awareness about the importance of water conservation. The winning teams were encouraged with exciting prizes.



## SOM | TEAM BUILDING MANAGEMENT



**School of Management** organized **Team Building Management Games** for the **First year MBA** students

Activities:

- Balloon March
- Swinging balloons in the air

**Instructional Coordinator:** Mr.C.Boopathy

**Outcome of the Game**

- Playing with balloons builds gross motor skills
- Eye-Hand coordination
- Battle among each squad
- Restoring Mental Sharpness and Vibrancy
- Relieves stress and improves decision making ability

## CSE | SEMINAR ON LEAN START-UP & MINIMUM VIABLE PRODUCT / BUSINESS



Department of **Computer Science and Engineering** in association with **IIC** organized a Seminar on “**Lean Start-up & Minimum Viable Product/Business**”, **Mr.D.Mano**, Founder & CEO, Canva Digital Solutions, Coimbatore, addressed the students about the start-ups and Business Plan and types of revenue model to raise funds for startup.

### Session Takeaways:

- Overview on Lean Start-up
- Identification and evaluation of Business opportunity
- Stages in minimum viable product/business
- Principles of lean startups
- Registration Procedure to start a start-up.



# CSE | WORKSHOP ON WEB APPLICATION DEVELOPMENT USING DJANGO

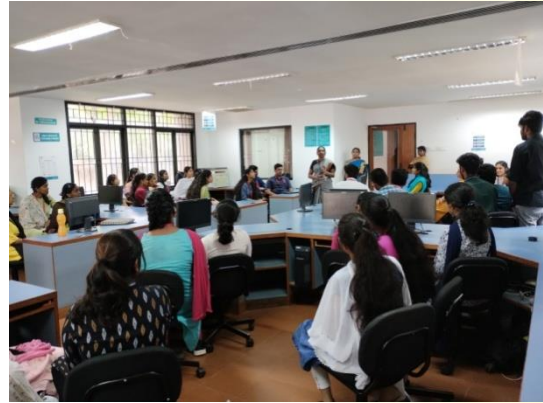


Department of **Computer Science and Engineering** organized a Workshop on **"Web Application Development using DJANGO"**. **Mr.J.Saravanakumar**, Director, Future Focus, Chennai was the Resource Person.

## Session Highlights:

- Python and Django introduction
- HTML and CSS Fundamentals
- Django's Architectural Flow
- CRUD (Create, Read, Update, Delete) Operations
- The benefits of utilising Django

## CSE | HOD INTERACTION



**Dr.K.Sasi Kala Rani**, Professor and Head, Department of **Computer Science and Engineering**, addressed the **Third** year students.

- Importance of Internal Components and submission.
- Importance of attendance
- Encouraged the students to take proactive steps towards their skill development and career growth



## ECE | WORKSHOP ON MULTI ROTOR DRONES



Two days Hands on workshop on **Multi Rotor Drones** was conducted by the Department of **ECE** for the **Third** year students on 20.07.23 and 21.07.23. The workshop was handled by **Mr. Yuvaraj**, Proprietor & CEO, Skyriders, Chennai and his team.

Students were given an overview of the Drone Technology and different types of drones in various applications. Government bodies regulating drones in various applications and licensing of drone piloting and certifications, different components of multicopter drones were also discussed, hands on experience in developing a quadcopter. Students were divided into teams. Each team was given a drone and the students assembled their quadcopters from scratch.

# ECE | WORKSHOP ON MULTI ROTOR DRONES



Students were trained on drone configuration control programming and to write programs to control the drones for various applications. Students had a real time experience in flying their assembled drones.



## IT | OUTREACH ACTIVITY



Department of **Information Technology** in association with **NSS/USVA** conducted an awareness talk for the School Students of Government High School, Kuniyamuthur on 21.07.2023.

- The students were highly excited and keenly observant in listening to the awareness talk on "save the girl child"
- Various games were conducted to teach about staying calm and composed in unusual situations.
- Students took a pledge and recited slogans related to the topic.

## MCT | OUTREACH ACTIVITY



Department of **Mechatronics Engineering** in association with **NSS** conducted an outreach activity for the School Students of Government High School, Kuniyamuthur, on 21.07.2023.

- The importance and awareness about the **World Nature Conservation Day** was disseminated to the school students and **seedballs** were also distributed to the students.



# S&H | TRIBAL EMPOWERMENT PROGRAMME



The Department of **Science and Humanities**, Sri Krishna College of Engineering and Technology conducted Tribal Empowerment Programme, Tribal Heritage – Janjathiya Vikas” on 24.07.2023 at Anaikatti. The faculty members and students engaged students and the elders by conducting different events that motivated and encouraged them. Kids enjoyed pasting cotton fur on rabbit images and the elders loved playing musical chair. The programme was relaxing and rejuvenating. **Dean of Student Affairs, Dr.V.Ragavi** and **Dr.Indhulekha**, Head, Department of **Science and Humanities** presided over the event and facilitated the prize winners.



## SKCET | ONE STUDENT ONE TREE 2023: Plantation Drive



**Plant a tree, so that the next generation can get air for free!!**

Go Green Initiative is one of the best practices of SKCET intending to conserve and protect natural resources for future generations, and to protect human health through environmental stewardship.

As a part of One student one tree initiative, students and faculty members of SKCET were provided with a sapling (vegetables and medicinal plants) to plant it in their respective residential areas to achieve a well-balanced ecosystem.

The plants saplings was sponsored by DST TITE project (ongoing) focused on Food Supplementation and Health Benefits.



# SKCET Buzz



## PLACEMENT AND TRAINING



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## TESTIMONIAL BY PLACED STUDENTS

I had an amazing experience at SKCET. The faculty members I had were very educated, knowledgeable and experienced. They were very helpful in improving my technical skills, communication skills and even problem-solving skills which were essential in shaping my career. The training programs opened up multiple ways of success to me. My experience with the placement procedure was great as I got to learn a lot. I'm immensely grateful to the placement faculties who provided me with various opportunities and as well supporting me during my placement interviews. I was able to attend interviews for many good companies and had a chance to meet and interact with people with good influence, which helped me secure a job in Accenture. I convey my sincere thanks to our Principal Madam and the entire SKCET family for providing me with adverse opportunities in building my career.



JAYADEEP J, MCT (2023 BATCH),

Accenture



## TESTIMONIAL BY PLACED STUDENTS

From nurturing our inner talents to eradicating the fear to speak up, SKCET has polished my skills and added a shine to my personality. The support from SKCET was overwhelmingly positive, which truly allowed me to succeed in my studies. The workshops and hackathons conducted by various teams here at SKCET helped me to get a good overview of what is needed to work in a collaborative and professional environment. I'm currently working as **Senior Software Engineer** at Informatica. I owe a huge thanks to every opportunity given to me to explore my personality and potential at SKCET. I would like to thank the management, Principal and the entire SKCET family for providing various opportunities and creating a sense of confidence to face the challenges in life.



**Somasundaram C, CSE (2020 BATCH),**

**Informatica**

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# M.TECH CSE | R&D PUBLICATION

ITC 2/52	Security in Medical Image Management Using Ant Colony Optimization
Information Technology and Control	Received 30/02/2023 10/17 Accepted after revision 30/02/2023 12/21
Vol. 52, No. 2, 2023	DOI: 10.57764/itc.52.2.20232
pp. 276-287	ISSN: 0974-789X

**Security in Medical Image Management Using Ant Colony Optimization**

**S. Karthikeyini**  
Department of Computer Science and Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, 641008, Tamilnadu, India

**R. Sagayaraj**  
Department of Electrical & Electronics Engineering, Muthayyanmal Engineering College (Autonomous), Ranipet, Namakkal, Tamilnadu, India

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Department of Computer Science and Engineering, Faculty of Engineering and Technology, JAIN (Deemed to be University), Bangalore, 560069, Karnataka, India

**Punitha Kumaresa Pillai**  
Department of Electrical and Electronics Engineering, PSB Engineering College (Autonomous), Sivakasi, 626140, Tamilnadu, India

Corresponding author: skarthikeyini@outlook.com

Data encryption before transmission is still a crucial step in lowering security concerns in cloud-based environments. Steganography and image encryption methods validate the security of confidential data while it is being transmitted over the internet. The paper presents the Ant Colony Optimization with Encryption Curve cryptographically-based steganography technique to enhance the security of medical image management (ACO-ECC-SMM). The initial stage is to create the stego images for the used cover image, the ACO algorithm-based image steganography technique is used. The creation of the encryption process as a key focus of the suggested ACO-ECC-SMM strategy. The encryption process is initially carried out using an ECC technique, or elliptic curve cryptography. To maximize PSNR, the ACO technique is employed to optimize the crucial production process in the ECC model. The host image is subjected to an integer wavelet transform, and the coefficients have been altered. To determine the ideal coefficients where to conceal the data, the ACO optimization technique is utilized. The decryption and sharing reconstruction procedures are then carried out on the receiver side to create the original images. In Image 1, the ACO-ECC-SMM model showed an improved peak signal-to-noise ratio (PSNR) of 39.37 dB. Due to the

**Dr.S.Karthikeyini**, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has published a paper titled **“Security in Medical Image Management Using Ant Colony Optimization”** in the Journal of **Information Technology and Control**. It is SCI, WoS and Scopus Indexed Journal with an Impact Factor 1.2. The Journal is also enlisted in Anna University Annexure I.

# AI&DS | BOOK PUBLICATION | R&D

**About the Authors**

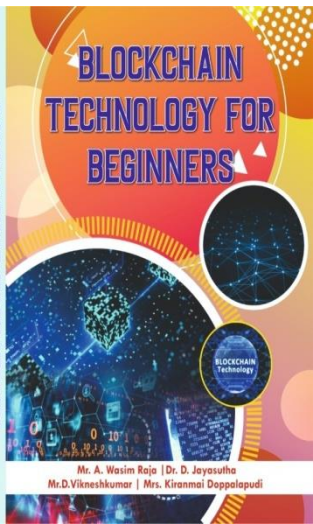
**Mr. A. Wasim Raja** working as an Assistant Professor in the Department of Artificial Intelligence and Data Science at Sri Krishna College of Engineering and Technology, Coimbatore. He holds an M.E. Degree in Computer Science and Engineering at K. J. Somaiya Institute of Engineering and Information Technology, Mumbai. He has completed his Ph.D. in Computer Science and Engineering at Sri Sakthi Engineering College of Engineering and Technology. His areas of interest are Cloud Computing, Networking and Artificial Intelligence.

**Dr. D. Jayasultha** is having about 15 years of experience in industry and teaching. He is currently serving Department of Computer Science and Engineering, Muthayyanmal Engineering College, Coimbatore. He completed his Ph.D. degree in the area of Wireless sensor networks. He published more than 20 papers in international journals and presented his papers in various international and national conferences. He has filed down for 2 IPRs for different software products. He is also acting as an editor and reviewer for reputed international journals. He is a member of IEEE. His areas of interest include Forensics, Cyber Security, Cyber Forensics and Software Engineering.

**Mr. D. Vikneshkumar** working as an Assistant Professor in Information Technology Department of SNS College of Technology (Autonomous), Coimbatore. He holds an M.Tech Degree in Computer Science and Engineering from Anna University, Chennai (2013) and a B.Tech in Information Technology from Anna University, Chennai (2011). He has more than 10 years experience in teaching and has published more books in recent technologies. His areas of interest include Database Management Systems, Artificial Intelligence, Machine Learning, AI, VR, and Metaverse.

**Ms. Kiranmai Doppalapudi** working as an Assistant Professor in Computer Science Engineering with Data Science Department at Chidambaram Institute of Engineering and Technology (Autonomous). She holds an M.Tech Degree in Software Engineering from Lakshmi Reddy Birla College of Engineering & Technology (2014) and a B.Tech in Computer Science Engineering from Universal College of Engineering & Technology (2012). Her areas of interest are hybrid language processing with machine learning and deep learning, Cloud Computing, Network & System Security and IoT.

**AASAN PUBLICATIONS** | www.aasans.com | info@asans.com



**Mr.A.Wasim Raja**, Assistant Professor of **AI&DS** has published a book titled **“Blockchain Technology for Beginners”**, Aasan Publication, 2023.

## MECH | ARTICLE PUBLICATION | R&D

**Mr.R.Siva Subramanian,** Assistant Professor, **Mechanical Engineering** has published a scientific article entitled **‘Experimental performance analysis of free and forced developed air flow greenhouse solar dryer using curry leaves’** in Web of Conferences. It is a Scopus Indexed Journal.

E3S Web of Conferences **399**, 02008 (2023)  
ICONNECT-2023

<https://doi.org/10.1051/e3sconf/202339902008>

### Experimental Performance Analysis Of Free And Forced Fully Developed Air Flow Green House Solar Dryer Using Curry Leaves

Ashok Kumar M<sup>1,\*</sup>, Kumaresan G<sup>2</sup>, Sivagaminathan M<sup>1</sup>, Siva Subramanian R<sup>3</sup>, and Gururaj C<sup>1</sup>

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<sup>2</sup>Department of Mechanical Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India

<sup>3</sup>Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India

**Abstract.** The world is beginning to move away from its consumption of fossil fuels. Various technologies are being developed to make use of renewable energy sources such as wind, solar, and tidal, etc. Solar energy is the best choice among these sources because of it is readily available, abundant, and capable of producing both electric energy and space heating. Solar energy can be used directly or indirectly to dry agricultural and non-agricultural products to preserve them for long a period without formation of fungi. Drying of herbal leaves is an important process in Siddha and Ayurvedic industries to produce herbal medicines in powder form. However, as herbal leaves are dried in the open sun, they are susceptible to environmental factors such as rain, insects, and livestock. These disadvantages of open-air drying shall be overwhelmed by greenhouse solar dryer. Greenhouse solar dryer with natural convection, forced convection with hot air supply are the existing methods, but when supplied with hot air, the rise in temperature leads to nutrient loss in herbal leaves. In order to avoid this loss in nutrients, the current work gives a solution that the temperature of forced convection greenhouse dryer can be reduced and controlled by supplying the ambient air at inlet flow in a fully developed air region, and this method can also leads to reduction in colour loss with possibly same or higher drying rate compare to natural convection greenhouse dryer.

## MECH | ARTICLE PUBLICATION | R&D

J. Inst. Eng. India Ser. D  
<https://doi.org/10.1007/s40033-023-00478-7>



ORIGINAL CONTRIBUTION

### Study and Fabrication of Fan Blade Using Coconut Leaf Sheath Fibre/Epoxy-Reinforced Composite Materials

A. Karthik<sup>1</sup>, R. Jeyakumar<sup>2</sup>, P.S. Sampath<sup>3</sup>,  
R. Soundararajan<sup>4</sup>, G. K. Manikandan<sup>4</sup>

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**Abstract** Natural fibres have improved their availability in an extensive range of engineering applications at a lesser cost because of their enhanced mechanical properties. Natural fibre from coconut leaf sheath is capable of enhancing the characteristics of composite materials. In this work coconut leaf sheath strengthened with epoxy is woven into composites with different fibre weight ratios (20%, 25%, 30% and 35%) to determine the mechanical strength of the laminates. Sample test materials were prepared under ASTM guidelines by compression moulding. The outcomes of the tests showed that the composite with 30% fibre content exhibited the highest tensile and modulus of rupture of 25.76 and 23.27 MPa, respectively. The maximum energy absorbed by the specimen on sudden impact was 0.2721 J. A scanning electron microscope was used to thoroughly investigate the fractures and failures in the laminates. Finally, the specimen that yielded the highest strength was chosen to fabricate a fan blade by the hand layup method.

**Keywords** Coconut leaf sheath · Epoxy · Compression moulding · Mechanical properties · SEM

#### Introduction

The twentieth century was defined by tremendous rapid industrialization characterized by material wealth and unrestrained human control of nature, notwithstanding the model's negative effects on the environment [1, 2].

The twenty-first century brings with it a slew of difficulties that must be met to resolve the issues such as ozone depletion, global warming and resource depletion that have arisen due to the over-exploitation of fossil fuel resources. Thus, stringent environmental laws have prompted manufacturers and researchers to identify develop and harness alternative clean energy resources and mineral resource-based materials [3].

Plant fibre composites as a replacement for man-made fibre composites are also one of those possibilities. In comparison with their synthetic counterparts, vegetable fibres have numerous benefits, including minimal price, low abrasiveness, good specific mechanical characteristics, low density, plentiful availability, renewability, biodegradability and sustainability [4]. Mechanical composite characteristics are influenced by two key factors: fibre length (short/long) and fibre orientation (oriented/random) [5]. Non-

**Dr.R.Soundararajan** and **Dr.R.Jeyakumar,** Associate Professors, Department of **Mechanical Engineering** have published a scientific research article entitled **‘Study and fabrication of fan blade using coconut leaf sheath fibre/epoxy – reinforced composite materials’** in the Journal of Institution of Engineers India – A Springer publication. It is a Scopus indexed journal.

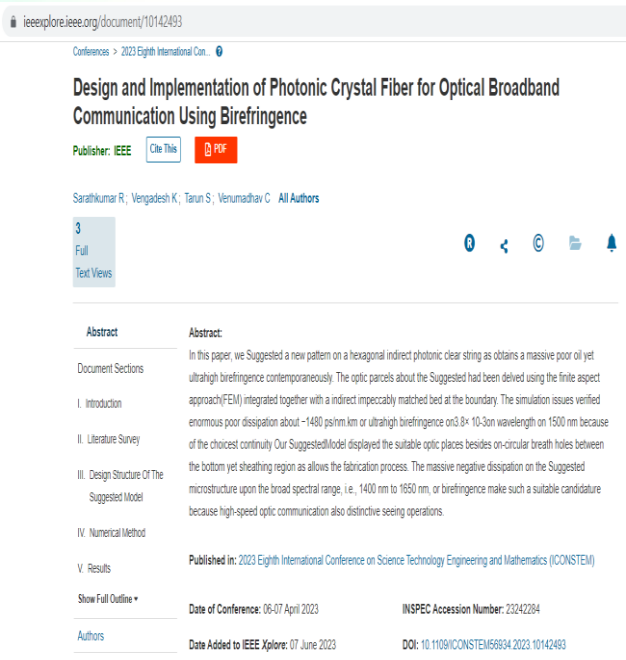


# CSBS | ARTICLE PUBLICATIONS | R&D

**Ms.F.Margret Sharmila**, Assistant Professor, Department of **CSBS** has published a journal titled **“An Effective Cryptanalysis of DES for secure Communication using hybrid analysis and Deep neural network”** on 24.07.2023. It is SCI and Scopus indexed and also mentioned in Anna University Annexure I.



# ECE | PAPER PUBLICATION | R&D



**Mr. R.Sarath Kumar**, Assistant Professor, Department of **ECE** has presented and published his conference paper titled **“Design and Implementation of Photonic Crystal Fiber for Optical Broadband Communication Using Birefringence”** at the 2023 Eighth International Conference on Science Technology Engineering and Mathematics (ICONSTEM). It is a Scopus Indexed IEEE Conference.

## CSE | PROJECT PROPOSAL | R&D

Proposal Title	Institution	PI	Co PI	Credit USD	Duration Months
Leveraging Quantum Algorithms in Business Analytics for Revenue Security"	Sri Krishna College of Engineering and Technology	Dr M. Sujaritha	Dr. K.Ramesh Dr.V.Vijeyakaveri Dr.G.Sathishkumar	4550	12

Regards,  
MeitY QCAL Team

Department of Computer Science and Engineering feel elated to share that **Cohort-2 MeitY Quantum Computing Applications Lab (QCAL)** has sanctioned an amount of **4550 USD** for the project titled "**Leveraging Quantum Algorithms in Business Analytics for Revenue Security**".

### Project Details:

#### Principal Investigator:

Dr.M.Sujaritha

Professor - CSE

#### Co- Principal Investigator:

Dr K Ramesh, Professor - CSE

Dr V Vijeyakaveri, Professor -CSE



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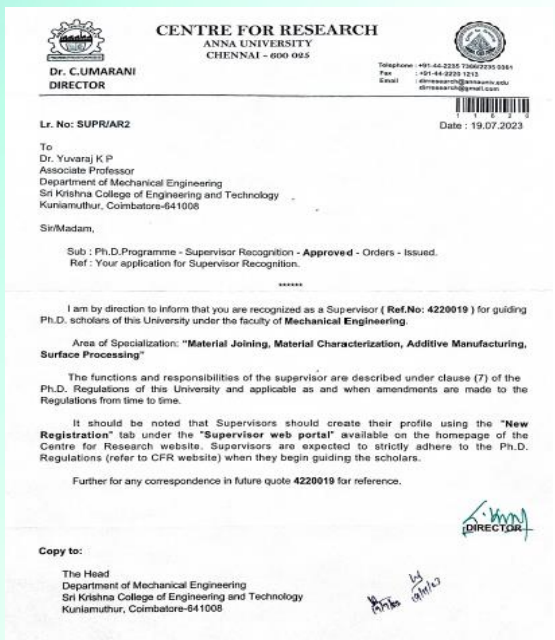
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# MECH | RECOGNITION AS Ph.D SUPERVISOR



Dr. K P Yuvaraj, Assistant Professor, Mechanical Engineering has been recognized as a Ph.D supervisor by Anna University, Chennai. The area of specialization are Material Joining, Material Characterization and Additive Manufacturing and Surface Processing.

# CSE | SEMINAR - RESOURCE PERSON

Mr.M.Vengateshwaran Assistant Professor, Department of Computer Science and Engineering has been a Resource person for a seminar entitled "Advanced Machine Intelligence using Big Data Analytics in Healthcare", V.S.B College of Engineering Technical Campus, Coimbatore.



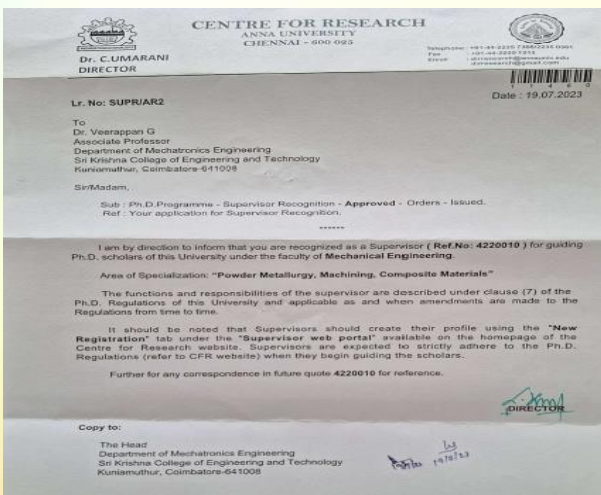


# ECE | FACULTY PROGRESSION



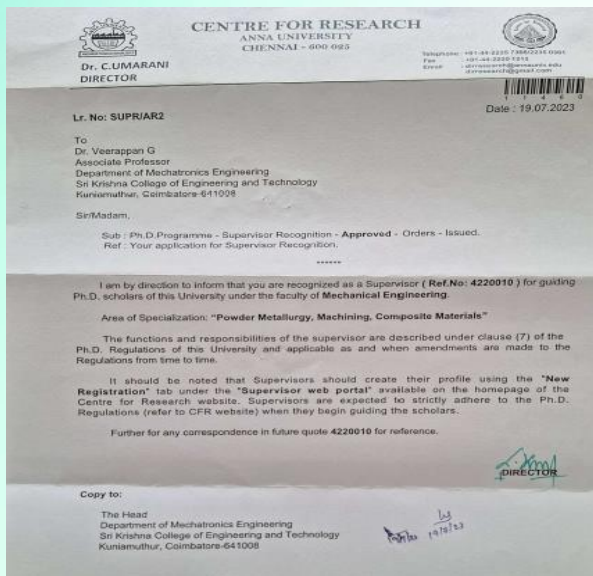
**Dr.Nandalal V**, Professor, Department of **Electronics and Communication Engineering** has been the resource person to deliver a technical talk for Anna University sponsored Faculty Development Training Programme (FDTP) titled “4G/5G Communication Networks on 21.07.2023. He delivered two sessions on topics **Millimeter Wave Communication Network – 4G / 5G / 6G** and **Millimeter Wave Communication Networks – Application**”, at KGISL Institute of Technology, Coimbatore. The talk pointed to explore the concept of Millimeter Wave communication and discussed the importance of application of 4G / 5G & 6G communication.

# MCT | RESEARCH SUPERVISOR RECOGNITION



**Dr.G.Veerappan**, Assistant Professor, Department of **Mechatronics Engineering**, has been recognized as a Research Supervisor under Anna University, Chennai.

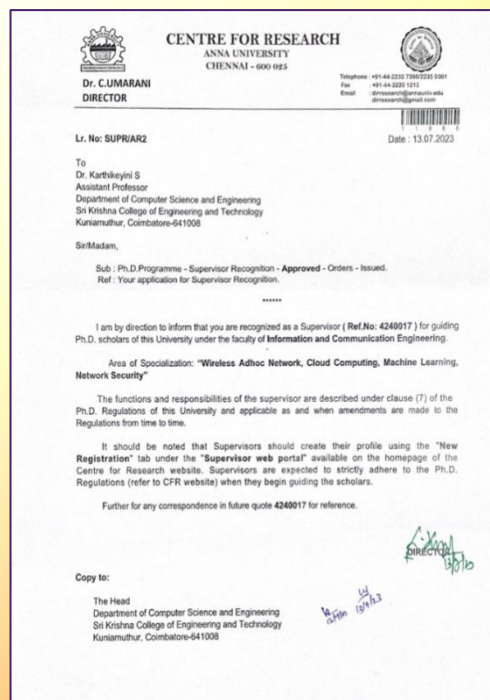
## MCT | RESEARCH SUPERVISOR RECOGNITION



**Dr.G.Veerappan,** Assistant Professor, Department of **Mechatronics Engineering,** has been recognized as a Research Supervisor under Anna University, Chennai.

## M.TECH CSE | RESEARCH SUPERVISOR RECOGNITION

**Dr.S.Karthikeyini,** Assistant Professor, Department of **M.Tech Computer Science and Engineering** has been recognized as a Supervisor for guiding Ph.D scholars of Anna University under the Faculty of Information and Communication Engineering. Her area of specialization is **"Wireless Adhoc Network, Cloud Computing, Machine Learning, Network Security"**.



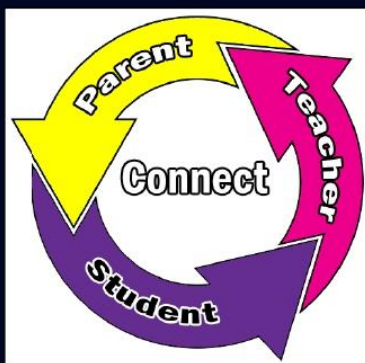


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## CIVIL | CLASS COMMITTEE MEETING



**Class Committee Meeting** was conducted for the Third year Civil engineering students by **Dr. V.R. Balaji**, Associate Professor, Department of ECE on 21<sup>st</sup> July 2023.

- Syllabus Coverage status
- Subject & General Feedback
- Hostel accommodation and transport facilities.
- Feedback on Laboratory Sessions
- General discussion and grievance regarding virtual classes and other academic activities.



# EEE | CLASS COMMITTEE MEETING



Department of **EEE** conducted **Class Committee Meeting** for the **Third year EEE** students. The Pointers of discussion were: Syllabus Coverage on Theory and Lab Courses and Academic Activities.

**Dr.M.Rajkumar**, Associate Professor, Department of IT chaired the meeting.



## FACULTY CERTIFICATIONS



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## EEE | FDP ON ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND IT'S APPLICATION



**Dr. Ramji Tiwari**, Assistant Professor, **EEE** Department has participated in an online Faculty Development Program on “**Artificial Intelligence, Machine Learning and it's Application**” organized by the Department of Electronics & Communication Engineering of Bharat Institute of Engineering and Technology, Hyderabad.

## IT| FUTURE TRENDS IN COMMUNICATION

**Ms.R. Janani**, Assistant Professor, IT has participated in a Webinar on “**Future Trends in Communication**” conducted by the Department of Electronics and Communication Engineering in association with Coimbatore Institute of Engineering and Technology from 10.07.2023 to 11.07.2023



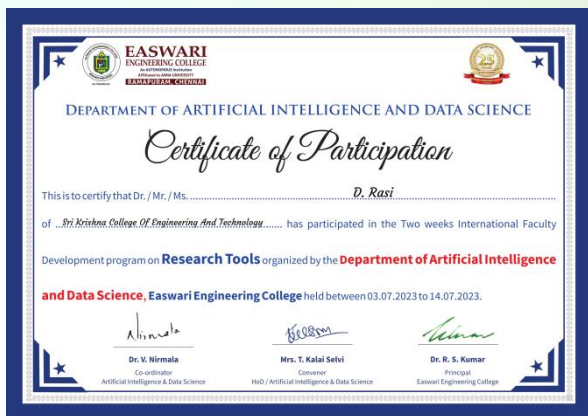
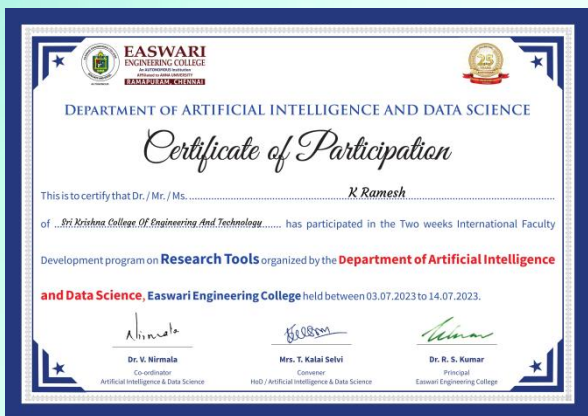
# AI&DS | FDP ON ML IN HEALTH CARE



**Mr.G.S.Pugalendhi, Ms.Kiruba Balan and Mr.S.Senthil Kumar, Assistant Professors of AI&DS participated in the Three Day National Level FDP on "Machine Learning in Healthcare :State of the Art, Challenges and Future Directions" held on 3<sup>rd</sup> – 5<sup>th</sup> July 2023.**



# CSE | FDP ON RESEARCH TOOLS



**Dr.K.Ramesh**, Professor and **Dr.D.Rasi**, Associate Professor, Department of **CSE** have participated in two weeks FDP on "**Research Tools**" organized by Easwari Engineering College, Chennai.

# CSE | FDP ON ML IN HEALTH CARE



**Dr.V.K.Reshma**, Assistant Professor, Department of **CSE** has participated in the three days FDP on "**Machine Learning in Healthcare: State of the Art, challenges and Future Directions**" organized by Koneru Lakshmaiah Education Foundation ,Telangana.

# IT | UPSKILL YOUR RESOURCES



**Ms.U.M.Ramya,** Assistant Professor has participated in the one week FDP on **“Upskill Your Resources”** organized by the Department of Business Administration, Ayya Nadar Jananki Ammal College from 07.07.2023 to 13.07.2023.

# IT | FACUTY CERTIFICATION

**Ms.U.M Ramya,** Assistant Professor, **IT** has participated in the one week FDP on **“Realize the Benefits of Academic Research”** organized by Sree Sakthi Engineering College from 10.07.2023 to 15.07.2023.





# MCT | FDP PARTICIPATION



Mrs.S.Nithyapriya and Dr.K. Ananthi, Assistant Professors, MCT have actively participated in the Five days Virtual Faculty Development Program on “Recent Trends and Challenges in Power Generation and Power Quality Improvement Techniques” organized by the Department of Electrical and Electronics Engineering, JCT College of Engineering and Technology from 17.07.23 to 21.07.23.

# S&H | FDP ON MATHEMATICAL & COMPUTATIONAL DOMAINS

Ms.Revathy P, & Ms.Preethi N, Assistant Professors, Department of Science and Humanities have participated in the One Week International Faculty Development Programme on Mathematics in Real, Applied and Computational Domains, organized by Sathyabama Institute of Science and Technology, Chennai.



# S&H | WORKSHOP ON LATEX



**Ms.Revathy P and Ms.Preethi N,** Assistant Professors, **Department of Science and Humanities** have participated in the **One Day State Level Workshop on Latex** organized by Chikkanna Government Arts College, Tirupur.



# S&H | WORKSHOP ON AI TOOLS FOR EFFECTIVE RESEARCH



**Ms. Revathy P,** Assistant Professor, **Department of Science and Humanities** has participated in the two days **Online Workshop on AI Tools for Effective Research** organized by Indian Mathematics Professors Association and Infinity Research & Development Institute, Coimbatore.



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## CONFERENCE PRESENTATION



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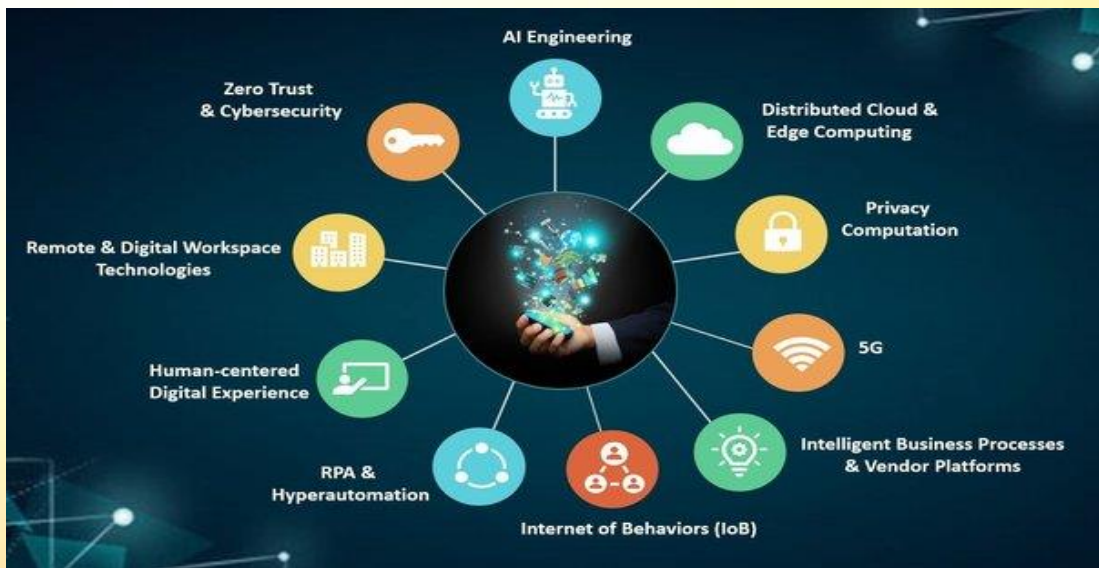
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# MCT | CONFERENCE PRESENTATION



**Dr.V.Narasimharaj**, Associate Professor, **MCT** has successfully presented a paper entitled “**Smart Farming: Intelligent Animal Detection Framework in Agriculture Using IoT Sensors**” in the 2<sup>nd</sup> International Conference on Edge Computing and Applications (ICECAA 2023) organized by Gnanamani College of Technology, Namakkal, Tamil Nadu, held from 19<sup>th</sup> - 21<sup>st</sup>, July 2023.

# INFOGRAPHICS







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## IT | ALUMNI INTERACTION



**Ms.U.M.Ramya**, Assistant Professor, IT along with T. Muhil prominent alumnus (2019-2023 Batch) interacted with the **First** year **IT C** Section students on 19.07.23 about placement preparedness.

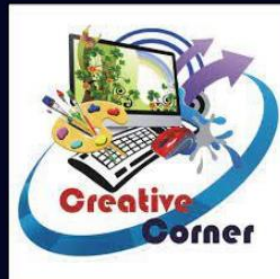
### Interaction Highlights:

- Significance of problem-solving skills
- Benefits of engaging in projects and Hackathon participations and their impact on placement interviews.
- How to avail internship opportunities.
- Shared his personal anecdotes about challenges faced during internship and how perseverance and problem-solving skills helped overcome them.





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