

SKCET

Buzz



6th - 12th April 2024



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Happy Reading!



INSTITUTIONAL EVENTS



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SKI | INDUSTRY CONNECT TALK SERIES



SKI to bridge the gap between Academia and Corporate inaugurated the Expert Talk **Industry Connects Talk series** on the theme **College to Corporate**.

The Chief Guest, **Dr. Suceendran K M**, Head of Academic Alliances Group - Tata Consultancy Services, **Chairperson Madam** and **Dr. K.Sundararaman**, Chief Executive Officer, SKI inaugurated the series.

SKI | INDUSTRY CONNECT TALK SERIES



As a gesture of respect and gratitude, **Chairperson madam** felicitated Chief Guest, **Dr. K.M Suceendran**, Head of Academic Alliances at Tata Consultancy Services , with a bouquet and memento.

SKI | INDUSTRY CONNECT TALK SERIES



The Chairperson and Managing Trustee madam delivered a presidential address that eloquently discussed the pressing demands of the industry on students.

Key Points

- Underscored the necessity of proactive measures in response to current imperatives.
- Emphasized the importance of adeptness to evolving industry requirements.

SKI | INDUSTRY CONNECT TALK SERIES



The Chief Guest, **Dr. Suceendran K M**, Head of the Academics Alliances Group, TCS provided a comprehensive overview of the industry's expectations from graduating students.

Key Points :

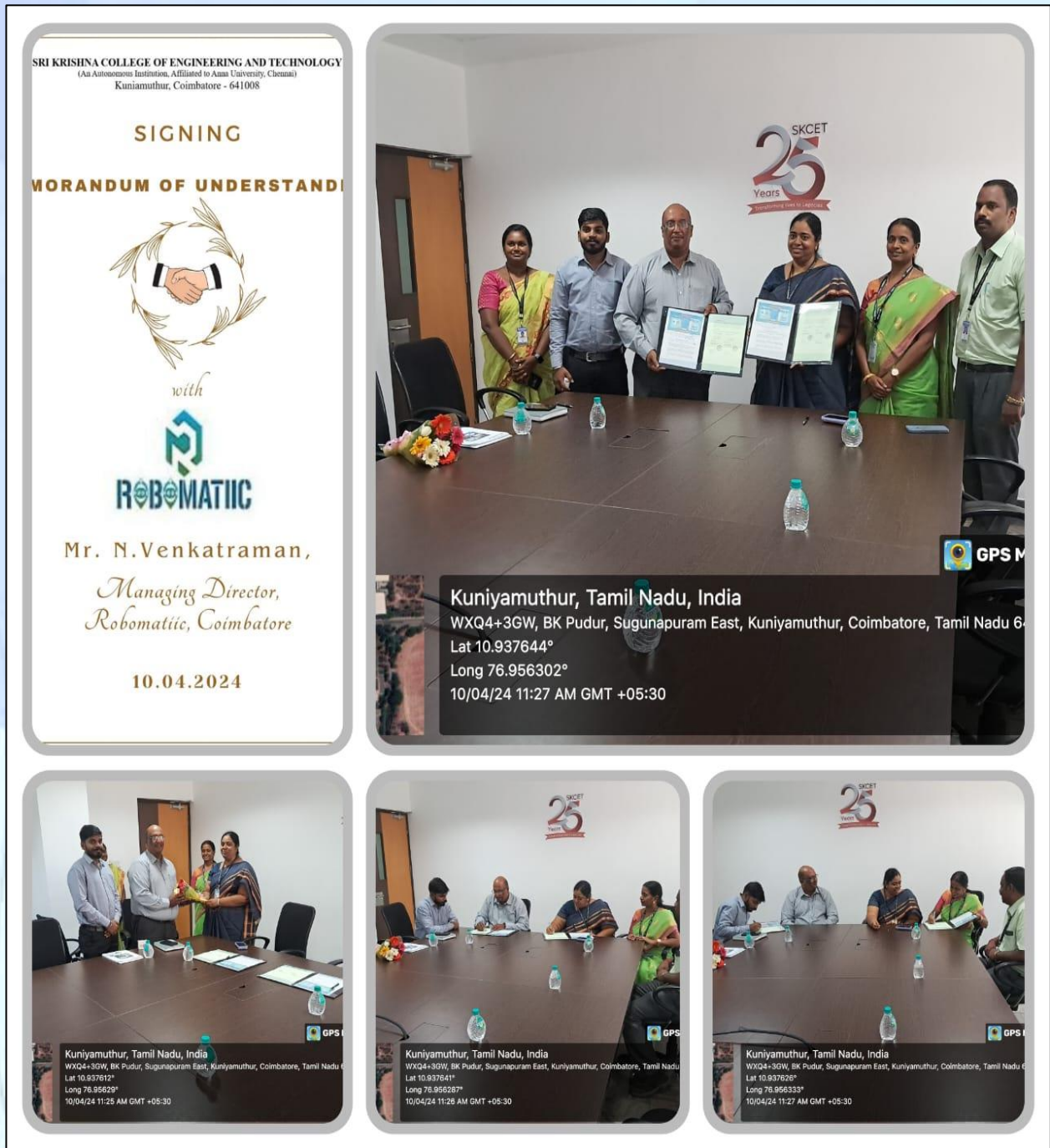
- Excel in Niche technologies like Quantum Computing, Cybersecurity, coding and enhance their communication skills.
- Emphasized the importance of networking, stating that "Your net worth is your network."
- Highlighted the significance of prioritizing health among the current generation.
- Encouraged students to pursue certifications, participate in hackathons, and engage in various skill-building opportunities.

SKI | INDUSTRY CONNECT TALK SERIES



The Chief Guest interacted with students and responded to their questions in an insightful manner.

ECE | MoU WITH ROBOMATIIC



Department of ECE signed an MoU with Robomatiic, a Division of CADD Technologies School of Design Pvt., Ltd., Coimbatore on 10.04.2024. Mr. N. Venkatraman, Director of Robomatiic and Dr. S. Sophia, Principal Incharge, signed and exchanged the MoU.



HACKATHON ACCOLADES



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CSE | NCIIPC AICTE PENTATHON



Student teams from the Department of **CSE** have been selected as finalists, ranking among the top 25 in the grand finale of India's inaugural national Vulnerability Assessment and Penetration Testing (VAPT) NCIIPC-AICTE Pentathon 2024. The cybersecurity competition was spearheaded by the Ministry of Education and AICTE, unfolded over an intense 48hour non-stop event hosted at Amity University, Noida, from April 2nd to 4th, 2024.

Team 1: Team Name: Quantumania

Team Members: K.S. Rithik Raj – III CSE B, Dharanidharan- III CSE A, Larwin – II CSE B, Praveen Kumar – I CSE C, Praneetha – I CSE C

Team 2: Team Name: CtrlShiftGeek

Team Members: Navadin Nehru – II CSE B, Naveenya – II CSE B, Megavarshini – II CSE, Patrick Periyannayagam – II CSE B, Kavin – II CSE B

Mentors: Ms. A. Priya, AP/CSE, Ms. G. Renuga Devi, AP/CSE, Mr. S. Kabilan (CSE Alumni -2022 Batch)

Team 3: Team Name: Cyb3r Knight5

Prithika Andrea Angelina FTeam



STUDENTS PROGRESSION



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AI&DS | CODING FEST



Kanish Yathra Raj and **Kavin Maithri P**, students of **Second year AI&DS** have participated in the Coding Fest event conducted as a part of **Leo' Fest 24** event hosted by Bannari Amman Institute of Technology and have won **Second Prize with Cash** award.

ECE | PROJECT PRESENTATION



J.VimalBethuraj, student of **Second year ECE** has participated and won **First Place** with a cash amount of **Rs.1000/-** in the event "**Project Presentation with Product Development**" at **REWOP** organized by Ramakrishna Engineering College, Coimbatore on **05.04.2024**.

CIVIL | CEA FEST 2024



Students of Third year **Civil Engineering** have participated in CEA Fest 2024 - Annual Technical Festival organised by IIT ,Chennai on 30th March 2024 and have won First and Third prizes with cash awards in the following events.

Event: Terraquake- First Prize with a cash award of Rs.6000/-

- Harisudhan.N, Nithish Kumar .M, Yogaraj.M

Event : Concrete challenge - First Prize with a cash award of Rs.6000/-

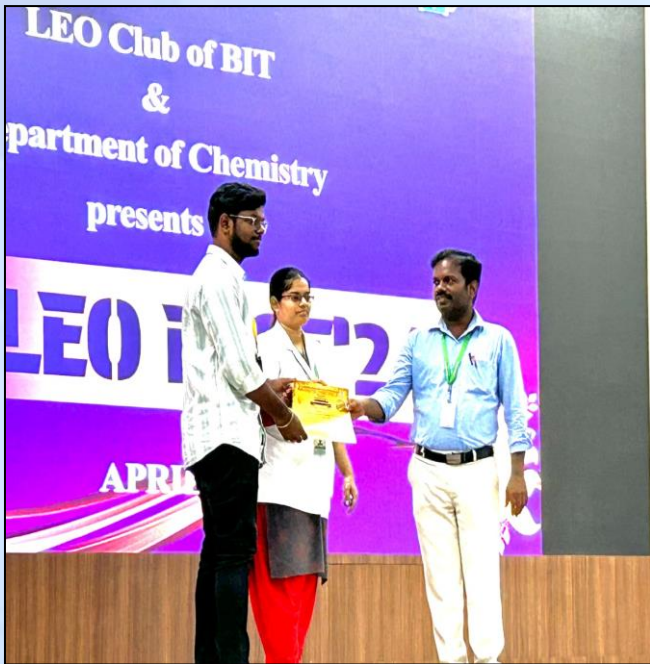
- Abilash.C, Adharsh .S.R, Jaison .B, Naresh kamar.G, Navin Kishore .K

Event :Bon-AutoRouter- Third Prize with a cash award of Rs.1000

- Kavinraj.A.G and Navin Kishore .K

Best ambassador award - R.Gunanandhini.

AI&DS | MEME-A-THON



Lakshman A, second year student of **AI&DS** has participated in LEO' FEST 24 event hosted by Bannari Amman Institute of Technology and has won **Second Prize** in Meme-A-Thon event.

AI&DS | PAPER PRESENTATION



First year **AI&DS** students participated in the Paper Presentation event hosted by **JCT Institutions** and have won **First Prize** with cash award.

Team Members:

- Mary Jerushiya A
- Tharun Kumar M

CSE | AICTE- AMRUT

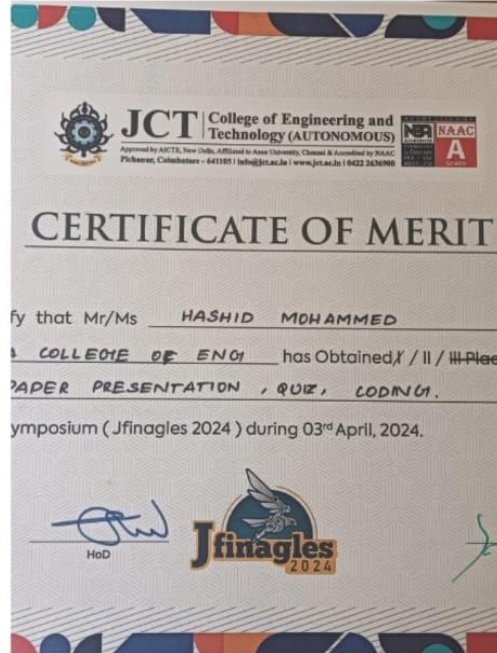
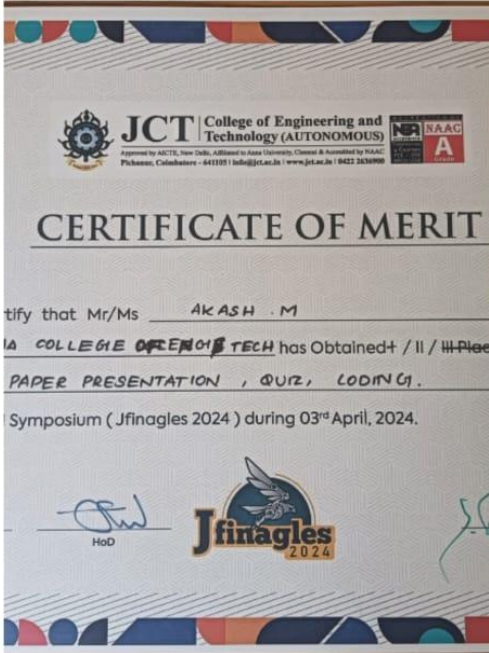
10	Team-158	Raagi Ilai Appam	Sri Krishna College of Engineering and Technology	Coimbatore	Dr.N.Kousika
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Team registered under the name “**MILLET NINJAS**” has been selected for the finals in the **AICTE Amrut (AICTE Millet Recipe Unleashing Talent)**. Their submission exclusive dish "**Raagi Ilai Appam,**" falls under the Application Category of Millet-based Starters (for breakfast & snacks), specifically in the Sub-category of containing more than 30% but less than 50% millets.

Team Members: Dr.Kowshika AP/CSE, Ms. S.R.Kaviyasree II CSE, Ms.K.Krithika II CSE and Ms.B.Nikila II CSE

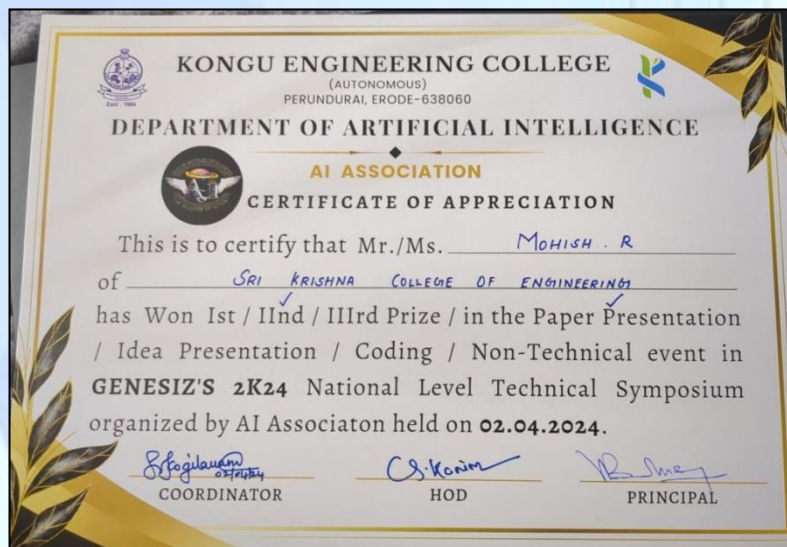
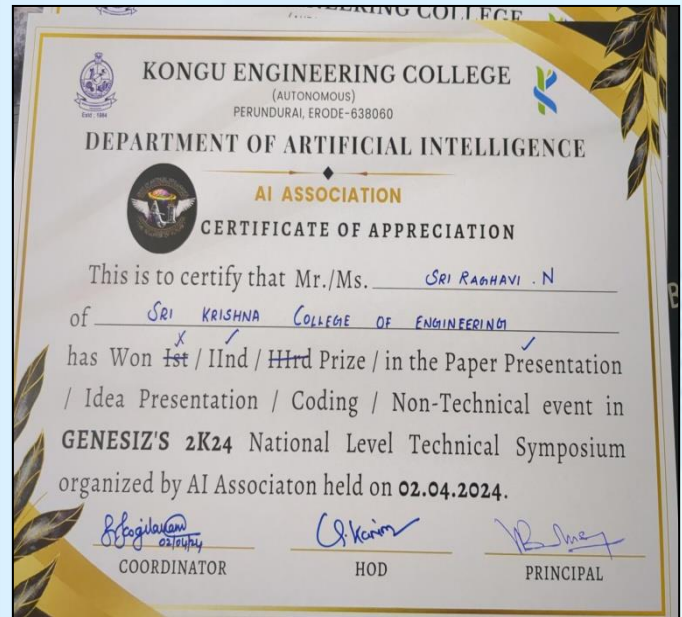
Team Mentor: Dr. T.Latha Maheswari ASP/CSE.

AI&DS | PAPER PRESENTATION



Akash M And **Hashid Mohamed H**, First year **AI&DS** students have participated in **JFINAGLES'2k24** event hosted by JCT College of Engineering and Technology and have won **Second Prize** with cash award.

AI&DS | PAPER PRESENTATION



First year AI&DS students participated in the paper Presentation GENESIZ'S 2K24 event hosted by Kongu Engineering College and have won Second Prize with cash award.

Team Members:

- Vasusudhan V
- Sri Raghavi. N
- Mohish. R

MCT | SYMPOSIUM PARTICIPATION



Mr. Y. Raghul, student of Second year **Mechatronics Engineering** has won **Second place** in the paper presentation event organized as a part of the one-day National Symposium “**Sakura 24**” by the Department of Aeronautical Engineering, Hindusthan Institute of Technology, Coimbatore on 3rd April 2024.



STUDENTS CERTIFICATION



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M.TECH CSE | AI & ML WITH DS WORKSHOP



Tarunika.G and **Shathirupa G**, students of First year, **M.Tech Computer Science and Engineering** have successfully participated in Two days offline workshop on **AI and ML with Data science** held on 6.4.2024-7.4.2024 conducted by Ethical Edefabrica Pvt. Ltd and Saarang 2024, IIT Madras.

CSE | VIRTUAL INTERNSHIP PROGRAM



Sanmitraa V.R, student of **First year CSE C** has successfully completed 4 weeks virtual Internship program in **C++ Programming** with wonderful remarks at **CODSOFT** from 01/03/2024 to 31/03/2024. The team was truly amazed and appreciated for their skills and invaluable contributions to the tasks and projects throughout the internship.

ECE | CONFERENCE PRESENTATION

Mr P S Harsha Ruban, student of First year **ECE** has presented a paper titled **“Implementation of FIFO Design using Verilog HDL to avoid data Losses in Transmission”** in the IEEE sponsored Second International Conference on Networking and Communications 2024 (ICNWC2024) organized by the Department of Networking and Communications, School of Computing, SRM Institute of Science and Technology, on 2nd to 4th April 2024.



MCT | SYMPOSIUM IIT BOMBAY



Dr. K. Ananthi, Mr. T. Vignesh and Ms. R. Priyadharshini, faculty members from **Mechatronics Engineering** along with students **Mr. T. Hariush** and **Mr. N. Gurusaran** from Second year MCT participated in eYantra Symposium organized in IIT Bombay from 05.04.2024 to 06.04.2024.



EVENTS



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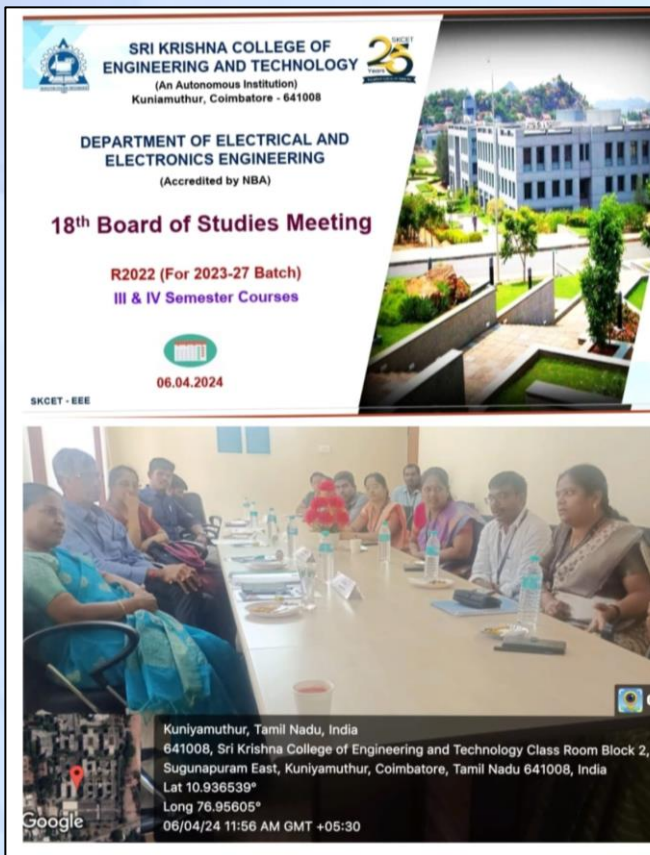
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EEE | BOS MEETING

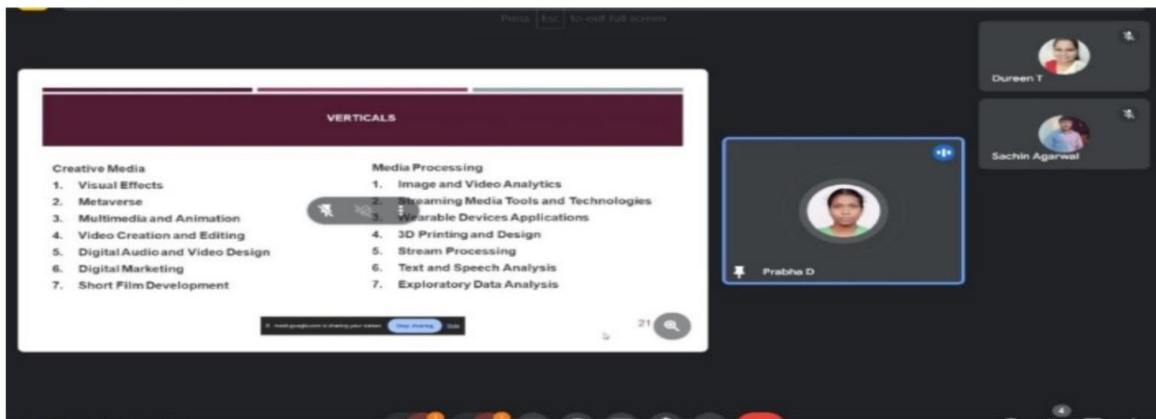


18th Board of Studies (BoS) Meeting was organized by the Department of **Electrical and Electronics Engineering** for the approval of R2022 (2023-27 batch) III & IV Semester Courses which was held on 06.04.2024 in EEE Conference Hall. **Dr. K.C.Ramya**, Professor and Head of the Department of **EEE** convened the meeting. **Dr. V.Geetha**, Professor & Head, Department of EEE, Government College of Engineering, Salem was the Anna University Nominee. **Dr. P. Somasundaram**, Professor, Department of EEE, College of Engineering - Guindy Campus, Anna University, Chennai and **Dr. M.S. Sivagama Sundari**, Professor, Department of EEE, Amrita School of Engineering, Coimbatore were the academic experts. **Mr. A. Rajkumar**, Project Lead Manager, Automotive Embedded, TATA Technologies Limited, Coimbatore and the Alumni Member **Mr. M. Shibi Chakaravarthy**, Project Head, Electrical Installations, Murugu Electrical Integrators, Coimbatore were Industry Experts. The board members shared valuable insights and approved the semester courses for the specified batch.

CSD | BOARD OF STUDIES MEETING

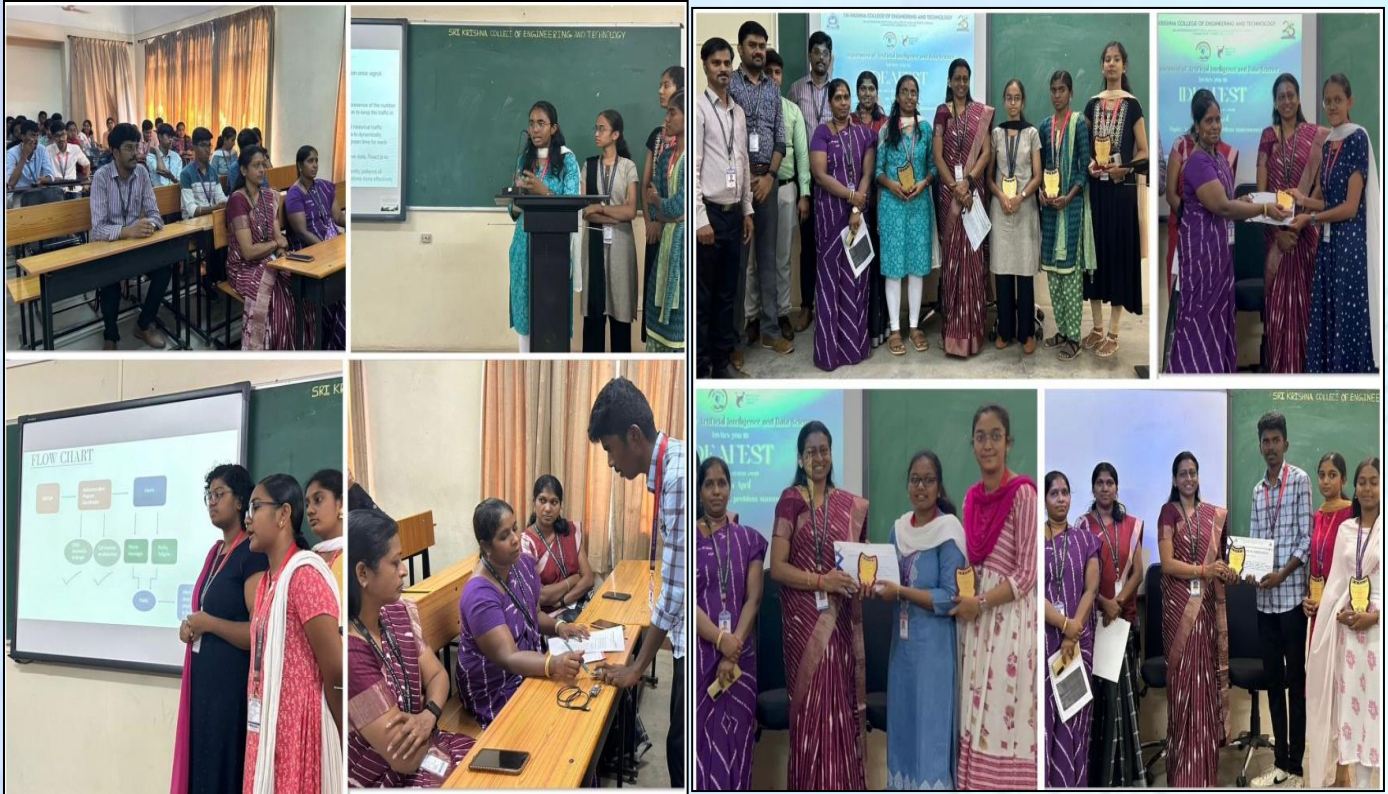


Kuniamuthur, Tamil Nadu, India
Sri Krishna College of Engineering and Technology Class Room Block 2, BK Pudur,
Cuvampuzha East - Kuniamuthur, Coimbatore - Tamil Nadu 641009 - India



Department of **Computer Science and Design** conducted Board of Studies meeting on 8th April 2024. **Dr.D.Prabha**, Professor, M.Tech.CSE convened the meeting and discussed the 2022 and 2023 batch curriculum, syllabus of B.E CSD. **Dr. T. Sree Sharmila**, Associate Professor, Department of Computer Science and Engineering, CEG Campus, Anna University, Chennai, **Dr. Vinoth Kumar C N S**, Associate Professor, Department of Networking and Communications, Faculty of Engineering & Technology, SRM Institute of Science and Technology, Chennai, **Dr. T. Senthil Kumar**, Associate Professor, School of Computing, Amrita Vishwa Vidyapeetham, Coimbatore, **Mr.Sachin Agarwal**, Senior DevOps Engineer, Securonix, Pune, **Mr. Naveen CS**, Software Development Engineer, Zoho, Chennai were the external experts..

AI&DS | IDEAFEST-IIC



Department of **AI&DS** in association with **IIC** organized “**IDEAFEST**” on 4.4.2024. The exceptional ideas put forward by participants highlighted the future trajectory of the ever - evolving technical landscape. The top three projects were recognized and awarded for their idea generation and hard work.

First prize (II CSE)

- **Team Name:** Hackhers
- **Team Members:** Shivani R, Yalini B, Suveetha Vasantha Selvi V, Sona R

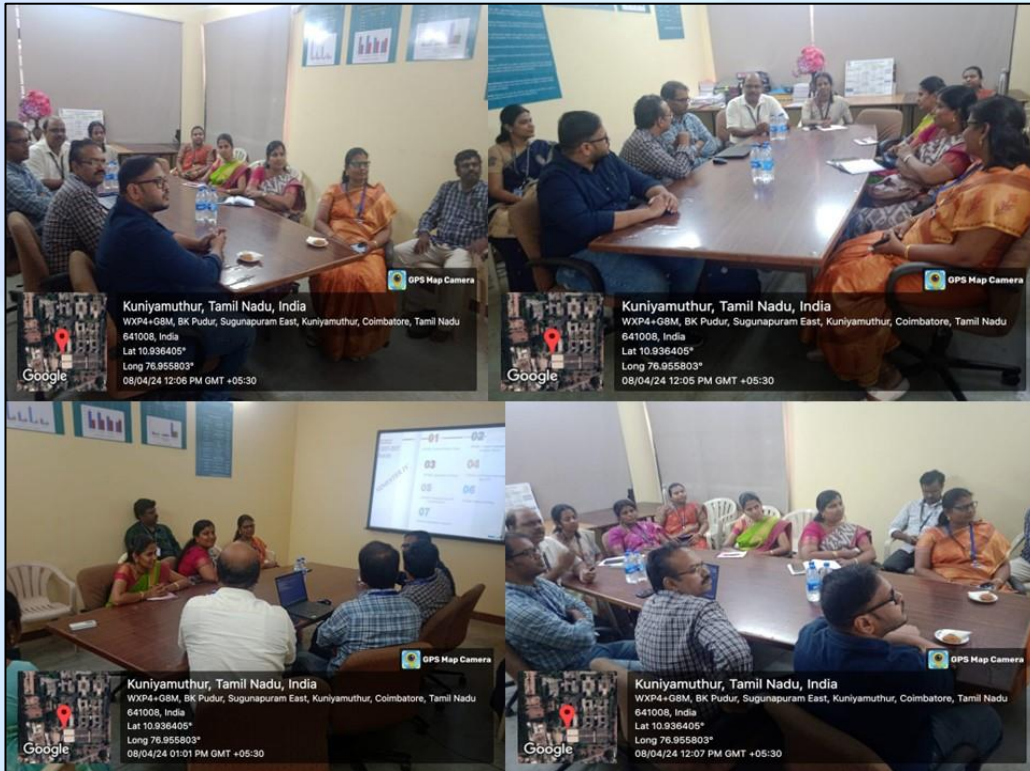
Second prize (I AI & DS)

- **Team Name:** Research Rangers
- **Team Members:** Naveen T, Samshrithaa, Santhana sri
- **Team Name:** Dynamite (I CSE)
- **Team Member:** Sri Vaishnavi R

Third prize (II AI & DS)

- **Team Name:** Tech Titans
- **Team Members:** Sandhya V, Sumera Aafreen Y

IT | BOS MEETING



Department of **Information Technology** conducted the Board of Studies meeting on 8th April 2024. The meeting was convened by the BoS Coordinator, Dr. G. Edwin Prem Kumar. The main agenda of the meeting was to approve the syllabi of core and elective courses of R2020(2021-2025 batch), R2022 and R2022(2023-2027 batch) of B.Tech IT.

BoS Members:

University Nominee: Dr. T. Sree Sharmila, Associate Professor, Department of CSE, CEG Campus, Anna University, Chennai

Academic Experts: Dr. V. Vani, Assistant Professor, Department of CSE, NIT Puducherry and Dr. M. Prathilothamai, Associate Professor – CSE, Amrita Vishwa Vidyapeetham, Coimbatore

Industry Expert: Mr. Vigneswaran Ganesh, Technical Lead | Architect, Cognizant Technology Solutions, Coimbatore

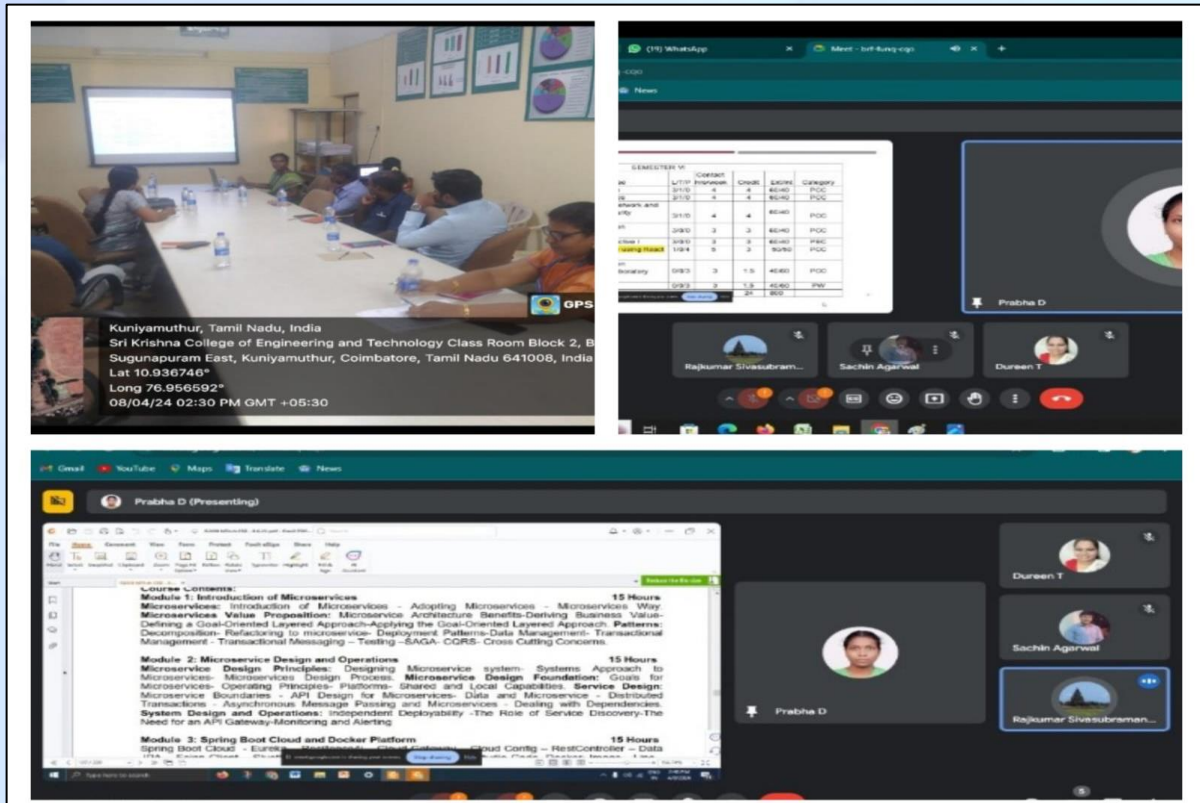
Alumni Expert: Mr. Pranesh Annamalai, Senior Manager – Wipro, Coimbatore

S&H | EXTENDED HOUR ACTIVITY



Extramural Club of **SHA** organized an event titled **Freeze** for the First year BE/B.Tech students. The student participants weaved creative stories. This event was a powerful tool for communication, connection and understanding within the student teams.

M.TECH CSE | BOARD OF STUDIES MEETING



The Department of **M.Tech Computer Science and Engineering** (5 Yr Integrated) conducted 9th BoS Meeting on 8th April 2024. **Dr.D.Prabha**, Professor, M.Tech.CSE convened the meeting and discussed the amendments in curriculum, syllabus of 2022 and 2023 batch. **Dr. T. Sree Sharmila**, Associate Professor, Department of Computer Science and Engineering, CEG Campus, Anna University, Chennai, **Dr.K.Umamaheswari**, Professor & Head, Department of IT, PSG College of Technology, Coimbatore, **Dr.M.P.Ramkumar**, Associate Professor, Department of CSE, Thiagarajar College of Engineering, Madurai, **Mr.S.Rajkumar**, Associate Director, Virtusa, Chennai, **Mr.Midhunprasath Murugan**, Senior Software Engineer, LTIMINDTREE, Coimbatore were the external experts.

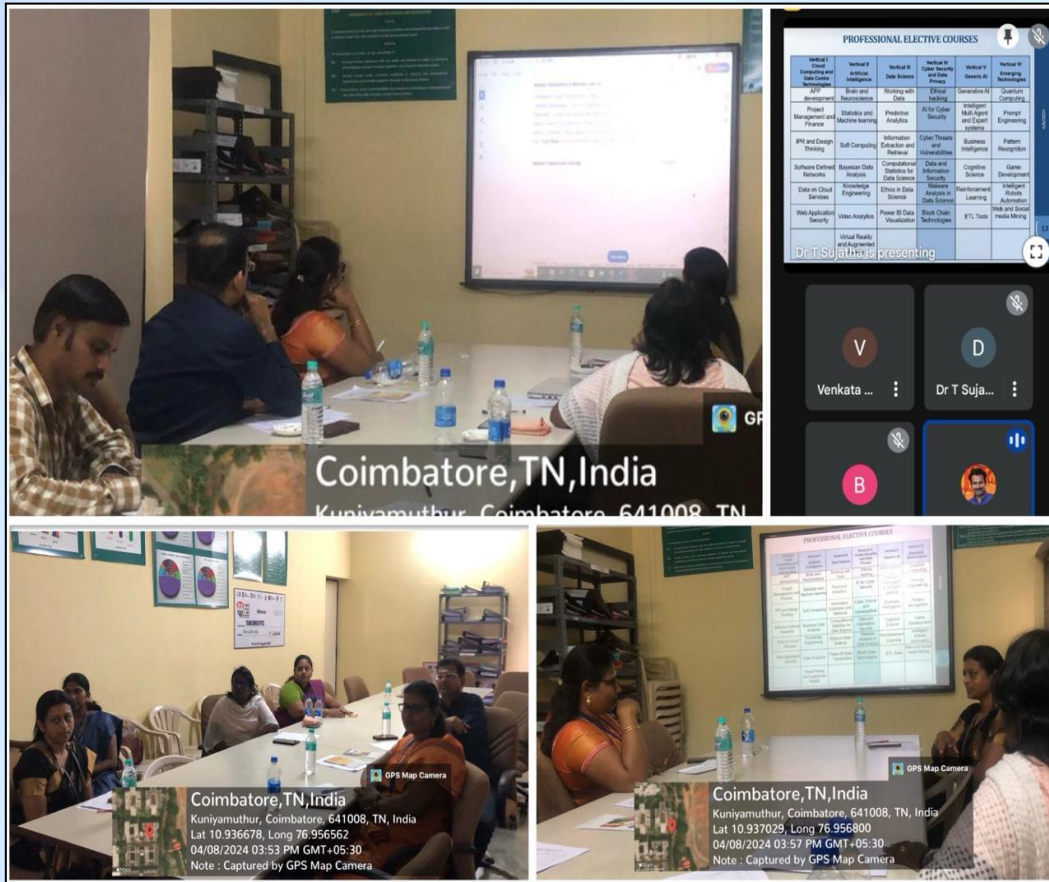
CIVIL | OUTSIDE CLASS LEARNING EXPERIENCE



As part of the Outside Classroom Learning Experience (OCLE) for the subject "Architectural Planning and Building Drawing", First year **Civil Engineering** students were taken to **Vankatram Learning Centre**, the central library of SKCET on 27th March 2024. Students were given an exposure on the following concepts:

- Concept of Day light harvesting system (North light roof concept in RCC)
- Design features of Library
- Importance of HVAC systems
- Role of High Volume Low speed fans in air circulation
- Steel Connecting bridges in level 2 and their structural advantages
- Importance of Aesthetics in Design
- Furniture and interior detailing in Library.

AI&DS | BoS MEETING



Department of AI&DS Convened 7th Board of Studies Meeting on 08.04.2024. The meeting was convened by **Dr.S.Venkata Lakshmi**, Professor & Head of the Department, AI&DS.

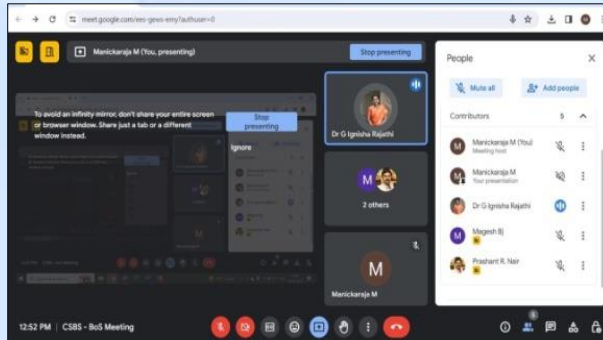
University Nominee: **Dr. T Sree Sharmila**, Associate Professor, Department of CSE, CEG Campus, Anna University, Chennai.

Academic Experts: **Dr.M. Premalatha**, Associate Professor, Department CSE, VIT – Chennai and **Dr.Valliappan Raman**, Professor & Head, Department of AI&DS, CIT, Coimbatore.

Industry Expert: **Mr.J Ganesh Kumar Ponnusamy**, Data Analyst, TCS, Chennai.

The main agenda of the meeting was to approve the syllabi of core and elective courses of R2020(2021-2025 batch), R2022 and R2022(2023-2027 batch) of B.Tech AI&DS.

CSBS | BoS MEETING



Department of **Computer Science and Business Systems** conducted the 8th Board of Studies meeting on 8th of April 2024. The meeting was convened by **Dr. G. Ignisha Rajathi**, BOS Coordinator. The main agenda of the meeting was to approve the syllabi of core and elective courses of R2022 (2022-2026 batch) and R2022 (2023-2027 batch) of B.Tech – Computer Science and Business Systems.

BoS Members:

Chairman: Dr. N. Susila, HOD, Department of Information Technology, SKCET

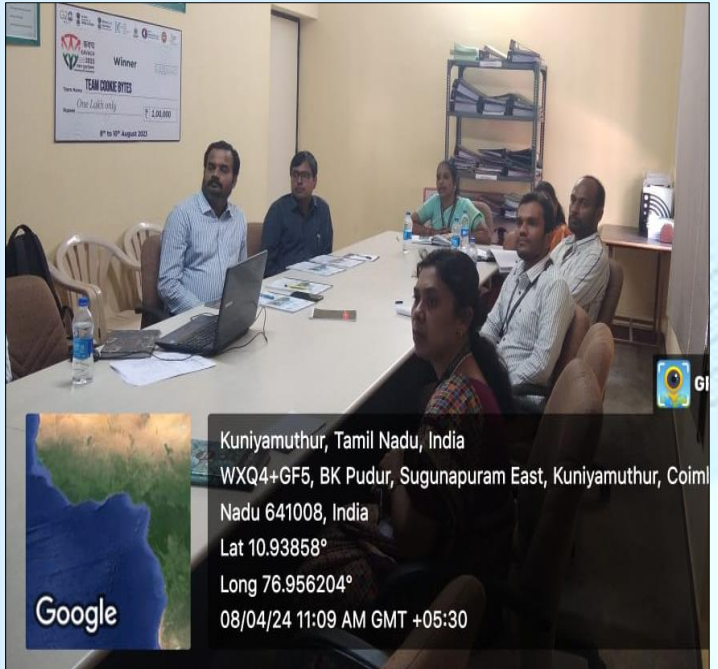
University Nominee: Dr. T. Sree Sharmila, Associate Professor, Department of CSE, CEG Campus, Anna University, Chennai.

Academic Experts: Dr. S. Vairamuthu, Associate Professor, School of Computer Science and Engineering, VIT, Vellore and **Dr. Prashant R. Nair**, Associate Professor, School of Computing, Amrita Vishwa Vidyapeetham, Coimbatore.

Industry Expert: Mr. Magesh, Academia Relationship Manager, Tata Consultancy Services, Bangalore.

Alumni Expert: Mr. Parvathy Nathan S, Software Development Engineer, Quinbay Technologies, Bangalore.

CSY | BoS MEETING



Department of **Computer Science and Engineering (Cyber Security)** conducted the 2nd Board of Studies Meeting on 8th of April 2024 in the CSE Conference Hall. The meeting was convened by the BoS Coordinator, **Mr.R.Yasir Abdullah**. The main agenda of the meeting was to approve the syllabi of core and elective courses of R2022 (2022-2026 batch) and R2022 (2023-2027 batch) of B.E CSE (Cyber Security).

BoS Members:

Chairman: Dr.K.Sasi Kala Rani, Professor & Head, Department of Computer Science and Engineering, SKCET.

University Nominee: Dr. T. Sree Sharmila, Associate Professor, Department of CSE, CEG Campus, Anna University, Chennai.

Academic Experts: Dr. M. Ananad, Professor, School of Computer Science and Engineering, VIT, Vellore and **Dr. B. Vinoth Kumar**, Professor, Department of IT, PSG College of Technology, Coimbatore

Industry Expert: Mr.Yashwant, Manager, EY GDS, Trivandrum.

Alumni Expert: Dr.Santhosh Murthi, Co-Founder - Tech Majlis, Muskat.



PLACEMENT AND TRAINING



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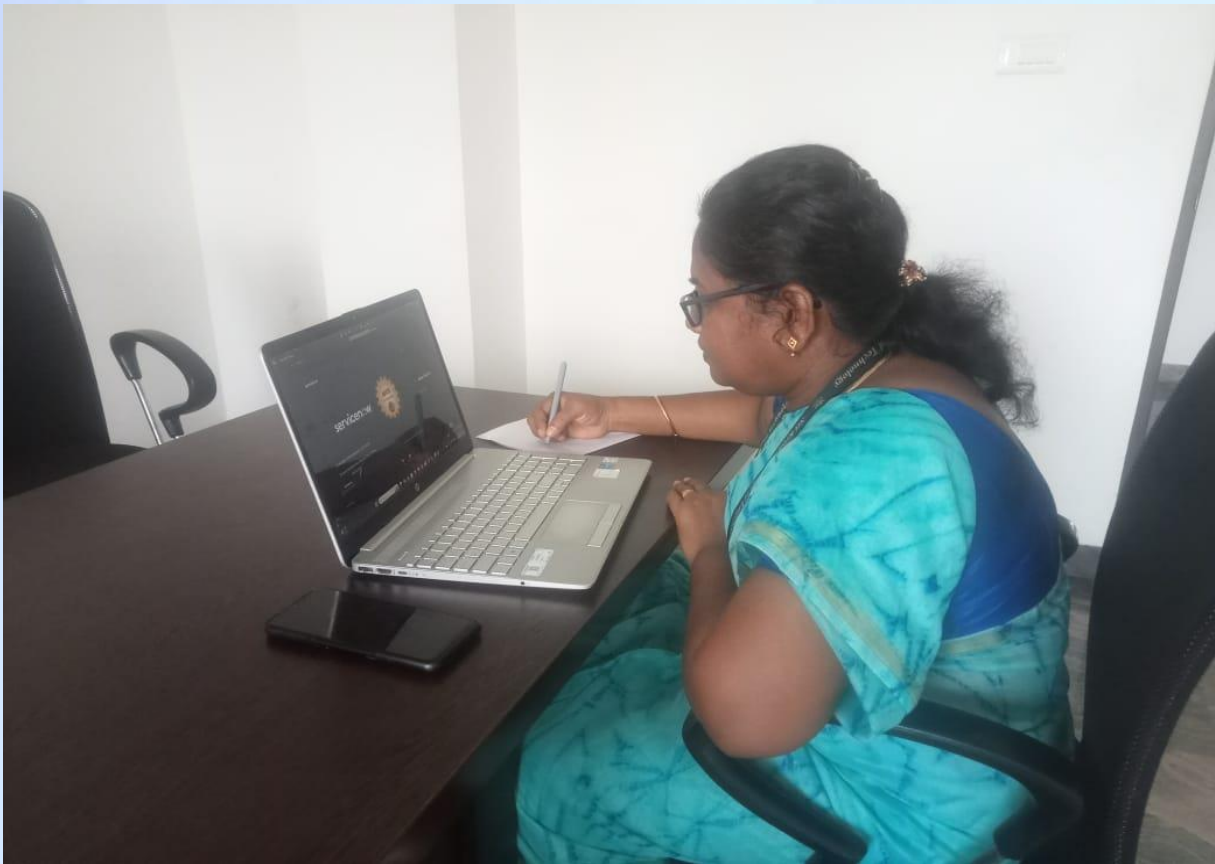
EEE | TESTIMONIAL BY PLACED STUDENT

I want to express my sincere gratitude to everyone at Sri Krishna College of Engineering and Technology (SKCET). The support from the management, EEE Department and Placement Cell has been invaluable in helping me secure a job offer during a highly competitive placement season. The placement preparation classes, exams and mock interviews significantly improved my performance during interviews. With hard work and determination, I successfully transitioned from being an applicant to an employee. SKCET has been an incredible experience for me. The dedication of the department in helping students identify their strengths and navigate the hiring process is truly commendable. As we had excellent placement preparation, I was placed at Tata Consultancy Services with a 4.25LPA. My sincere thanks to all the staff, placement team and mentors for their unfailing support, which led to my successful placement.



VISHNU VARSHNI K
EEE (2024 BATCH)
TCS-4.25 LPA

PLACEMENT | SERVICENOW LIVE WEBINAR



Ms.Tamil Selvi, Faculty of Placement attended the Live webinar by Dr. Buddha Chandrasekhar - Chief Coordinating Officer, AICTE and Mr.BhaskarGandhavadi - Director, ServiceNow on 5.4.2024.

AICTE has partnered with ServiceNow a cloud-based platform and solutions company that helps digitize and unify organizations so that they can find smarter, faster, better ways to make workflow.

ServiceNow is one of our prestigious recruiters, they provide students global and centralized learning, while building future-ready skills and capabilities.

Session Highlights

- Administrator and Developer courses on the Now Learning platform
- Introduction to Emerging AI technologies
- Providing valuable insights needed by all prospective employees

PLACEMENT | TESTIMONIAL BY PLACED STUDENT

I did my Bachelor's degree in Electronics and Communication Engineering at Sri Krishna College of Engineering and Technology (SKCET). My experience in SKCET is incredibly awesome. Thanks to the comprehensive college placement services provided by SKCET, I successfully secured a prestigious internship and later landed my dream job right out of college. The support and guidance I received from the placement advisors were invaluable throughout the entire process. From personalized assistance with college applications to networking opportunities and interview preparation, SKCET equipped me with the tools and resources necessary for success in my chosen career path. I highly recommend their placement program to any student seeking internship or job opportunities, as they go above and beyond to ensure students are well-prepared and positioned for success in today's competitive job market.



**BABY VISHNUPRIYA N,
ECE (2024 BATCH)
Schneider Electric Private
Limited**

PLACEMENT | TESTIMONIAL BY PLACED STUDENT

I am Charuthy A D from Civil Engineering department of batch 2020 - 2024. My experience at SKCET had been wonderful and I had an opportunity to gain new skills which is an important part of my career. Expert sessions by industry professionals made me familiar with the latest trends in the industry. Training for improving soft skills and overall personality development had helped me during placements. The college has a lot of opportunities to learn and showcase the skills. Overall, I had a very good experience at the college and I am grateful to my parents for choosing SKCET. I would like to specially thank the placement cell and faculty team for providing me a good platform for my career and also helped me to get placed at Aarbee Structures by guiding me at every stage of the placement process. Thanks to the Principal and the entire SKCET faculty team.



**CHARUTHY A D,
CIVIL (2024 BATCH)
AARBEE STRUCTURES**



RESEARCH AND DEVELOPMENT



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R&D | JOURNAL PUBLICATION | MECH

Recent Patents on Nanotechnology

Editor-in-Chief >>

ISSN (Print): 1872-2105
ISSN (Online): 2212-4020

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Research Article

A Detailed Study on using Novel LM 25 Aluminium Alloy Hybrid Metal Matrix Nanocomposite for Nuclear Applications

In Press, (this is not the final "Version of Record"). Available online: 26 March, 2024

Author(s): S.C.V Ramana Murthy Naidu, Suresh V*, P. Prabhu, Beporam Iftekhhar Hussain, Abdul Rab

Asay, G Padmanaban, M. Srinivasrao and K.P. Yuvaraj

Published on: 26 March, 2024

DOI: 10.2174/0118722105286121240214062457

Price: \$95

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Dr.K.P.Yuvaraj, Associate Professor, Department of **Mechanical Engineering**, has published a research article titled **“A Detailed Study on using Novel LM 25 Aluminium Alloy Hybrid Metal Matrix Nanocomposite for Nuclear Applications”** in Recent Patents on Nanotechnology. It is indexed in Scopus.

R&D | JOURNAL PUBLICATION | MECH

Dr.R.Soundararajan, Associate Professor, Department of **Mechanical Engineering**, has published research articles titled **“Experimental Study on the Mechanical Behavior of Polyamide 6 with Glass Fiber Composites Fabricated through Fused Deposition Modeling Process”**, and **“Investigation on Dynamic Characteristics of Aluminum Metal Matrix Composites”** in SAE International Conference Proceedings, through International Conference on Trends in Automotive. It is indexed in Scopus.

2024-01-5043 Published 16 Apr 2024

SAE INTERNATIONAL

Experimental Study on the Mechanical Behavior of Polyamide 6 with Glass Fiber Composites Fabricated through Fused Deposition Modeling Process

A. R. Sivanesht Sri Ranganathan Institute of Engineering and Technology, Department of Mechanical Engineering

R. Soundararajan Sri Krishna College of Engineering and Technology, Department of Mechanical Engineering

M. Natrayan and J. D. Nallsivam Sri Ranganathan Institute of Engineering and Technology, Department of Mechanical Engineering

R. Santhosh CSI College of Engineering

Citation: Sivanesht A.R., Soundararajan, R., Natrayan, M., Nallsivam, J.D. et al., "Experimental Study on the Mechanical Behavior of Polyamide 6 with Glass Fiber Composites Fabricated through Fused Deposition Modeling Process," SAE Technical Paper 2024-01-5043, 2024, doi:10.4271/2024-01-5043.

Received: 29 Sep 2023 Revised: 22 Jan 2024 Accepted: 12 Mar 2024

Abstract

In this paper, experimental studies were conducted to examine the mechanical behavior of a polymer composite material called polyamide with glass fiber (PA6-GF), which was fabricated using the three-dimensional (3D) fusion deposition modeling (FDM) technique. FDM is one of the most well-liked low-cost 3D printing techniques for facilitating the adhesion and hot melting of thermoplastic materials. PA6 exhibits an exceptionally significant overall performance in the families of engineering thermoplastic polymer materials. By using twin-screw extrusion, a PA6-GF mixed particles made of PA6 and 20% glass fiber was produced as filament. Based on literature review, the samples have been fabricated for tensile, hardness, and flexural with different layer thickness of 0.08 mm, 0.16 mm, and 0.24 mm, respectively. The composite PA6-GF behavior is characterized through an experimental test employing a variety of test samples made in the x and z axes. The mechanical and physical characteristics of PA6-GF polymer were examined using tensile, flexural, and impact tests. The best outcomes were obtained for specimens printed with 0.08 mm lower value of layer height, which had a greater impact on all mechanical performance. The replacement of traditional materials was suggested with this high-strength printed samples in industrial application products.

Keywords

FDM, PA6-GF, Mechanical properties, Layer thickness

R&D | DESIGN PATENT GRANT | MECH



Dr. Yuvaraj K.P, Associate Professor – **Mechanical Engineering** has been granted a Design Patent for his project 'Drug Distribution Device' by The Patent Office, Government of UK.

R&D | PATENT PUBLICATION | M. TECH CSE

Mr Senthil J, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has successfully published a utility patent titled **“Automatic Robot With Remote Controlled Solar Powers Versatile Pesticide Spinkler In Agriculture”** dated **22.3.2024** With Application Number:**202441015525 A**

(12) PATENT APPLICATION PUBLICATION	(21) Application No:202441015525 A
(19) INDIA	
(22) Date of filing of Application :01/03/2024	(43) Publication Date : 22/03/2024
(54) Title of the invention : AUTOMATIC ROBOT WITH REMOTE CONTROLLED SOLAR POWERS VERSATILE PESTICIDE SPINKLER IN AGRICULTURE	
(51) International classification: A01M09/00000, B64D0001180000, A01N002/044000, G08C01/7020000, A01G013100000	(71)Name of Applicant : 1)Dr. S.PRAKASAM Address of Applicant: PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE, GOBI, TAMILNADU. PIN CODE:638455 Gobi
(86) International Application No	2)Dr. R.SENTHIL KUMAR 3)Mr. J.SENTHIL 4)Mr. P.M.MANOCHITRA 5)Mr. K.NARAYANAN
Filing Date	Name of Applicant : NA
(87) International Publication No	Address of Applicant : NA
(61) Patent of Addition to Application Number	(72)Name of Inventor : 1)Dr. S.PRAKASAM Address of Applicant: PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE, GOBI, TAMILNADU. PIN CODE:638455 Gobi
Filing Date	2)Dr. R.SENTHIL KUMAR Address of Applicant: ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE, GOBI, TAMILNADU. PIN CODE:638455 Gobi
(62) Derivational to Application Number	3)Mr. J.SENTHIL Address of Applicant: ASSISTANT PROFESSOR, M.TECH COMPUTER SCIENCE AND ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE, TAMIL NADU. PIN CODE 641008 Coimbatore
Filing Date	4)Mr. P.M.MANOCHITRA Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE, GOBI, TAMILNADU. PIN CODE:638455 Gobi
	5)Mr. K.NARAYANAN Address of Applicant: ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, GOVERNMENT COLLEGE OF ENGINEERING, ERODE, TAMILNADU, PIN CODE : 638316 Erode
(57) Abstract:	
ABSTRACT: AUTOMATIC ROBOT WITH REMOTE CONTROLLED SOLAR POWERS VERSATILE PESTICIDE SPINKLER IN AGRICULTURE: Automatic robots with remote controlled solar power versatile pesticide sprinklers are innovative and high-tech machines designed for efficient and eco-friendly pesticide application in agriculture. These robots are equipped with solar panels and controlled remotely, making them highly flexible and adaptable for use in a variety of agricultural settings. The main purpose of these robots is to efficiently apply pesticides in agricultural fields without the need for manual labor or the use of fossil fuels, reducing labor costs and environmental pollution. These robots are equipped with a tank for containing the pesticide, which is connected to a pump that distributes the pesticide through a sprinkler system. One of the key features of these robots is their remote control capability. This allows the user to operate the robot from a distance using a controller or a smartphone application. This eliminates the need for a human operator to physically control the robot, making it	

R&D | PAPER PUBLICATION | ECE

ieeexplore.ieee.org/document/10396902

Conferences > 2023 Third International Conf.

A Systematic Approach in Detecting Brain Tumor using CCNN Algorithm

Publisher: IEEE [Cite This](#) [PDF](#)

Dinesh Kumar J.R., Ganesh Babu C., Lopezshivan V., Manoj M., Pari M., Peter A.O.S. [All Authors](#)

Abstract

A brain tumor (BT) is characterized by the presence of abnormal cell growth, whether these cells are malignant or not. In BT conditions, the number of these cells increases and multiplies rapidly, causing uncontrolled growth. Detecting brain tumors at an early stage is crucial for timely prognosis and diagnosis. Recent advancements in artificial intelligence (AI) and machine learning (ML) have made it possible to forecast the growth of brain tumors more quickly. Deep learning and ML algorithms play a vital role in achieving higher accuracy, which greatly benefits patient treatment. This study aimed to develop a framework for a Competence Convolutional Neural Network (CCNN) model and establish parameters for training the model and predicting its accuracy, referred to as predictive diagnosis (PD). The research utilized a dataset of 150 brain tumor diagnoses, based on MRI images, to assess the proposed methodology using a ML-based CNN. The algorithm demonstrated an exceptional accuracy rate of 93% in the training phase, 87.34% in validation, and 89.5% during testing. These results surpass the accuracy of traditional methods for brain cancer detection in comparative studies.

Document Sections

- I. Introduction
- II. Literature Survey
- III. Design Methodology
- IV. Results and Discussions
- V. Conclusion

Authors

Published in: 2023 Third International Conference on Smart Technologies, Communication and Robotics (STCR)

ieeexplore.ieee.org/document/10397059

Conferences > 2023 Third International Conf.

Certain Examination on ECG Classification using Hybrid Machine Learning Models

Publisher: IEEE [Cite This](#) [PDF](#)

Ganesh Babu C., Karthikeyan B., Dinesh Kumar J.R., Priyanka G.S., Anuradha T., Priyadharsini K. [All Authors](#)

Abstract

A Non-stationary signal called an electrocardiogram (ECG) is utilized to evaluate the rate of cardiac beats. Doctors can identify Abstract - Heart Rate Variations (HRV) is one of the major issues focused in Medical field. The unexpected functionality of heart is measured from the Electrocardiogram (ECG) signals. The HRV is one of severe disease which can affect any people of any age and it cause to sudden death. This research article focuses on identifying the HRV using the various Machine Learning (ML) algorithms. This research work develops the hybrid ML (HyML) which has better performance in all the aspects. The HyML is constructed with Support Vector Machine (SVM), Robust principal Component Analysis (RPCA) and Hidden Markov Models (HMM). Also, to support the different data of ECG multi SVM (MSVM) and Single SVM (SSVM) models were developed. These models are trained with 5348 samples under 8 different categories to classify the HRV. Therefore we propose the model HyML, which improve the effectiveness on classifying the HRV. Our proposed model achieves the accuracy of 94.53% for MSVM and 93.59% for SSVM. The overall the sensitivity is varying between 0.52-0.59 for MSVM and 0.52-0.91 for MSVM. Also, the precision observed in the range of 0.57-0.91 for SSVM and 0.91 - 0.94 for MSVM. Hence, the proposed model is highly recommended model for HRV classification with SVM of both models such as single and multi.

Document Sections

- I. Introduction
- II. Materials and Mathematical Formation
- III. System Design and Methodology
- IV. Results and Discussions
- V. Conclusion

Authors

Published in: 2023 Third International Conference on Smart Technologies, Communication and Robotics (STCR)

ieeexplore.ieee.org/document/10396954

Conferences > 2023 Third International Conf.

Certain Investigation of Various Algorithms to Improve the Quality of Hearing Aid

Publisher: IEEE [Cite This](#) [PDF](#)

K Priyadharsini ; C Ganesh Babu ; J R Dinesh Kumar ; J Jony Jas ; S Mano Bharathi ; Rajarajan [All Authors](#)

Abstract

Hearing loss, marked by an inability to hear sounds below a 20 dB threshold, often results from dysfunction in the ear's organs, associated nerves, or the auditory part of the brain. Deaf individuals encounter direct or indirect discrimination in daily life, as highlighted by National Centre for the Deaf data showing a significant employment gap. Only 48% of deaf individuals are employed, compared to 72% of their hearing counterparts. This discrimination leads to missed opportunities and some deaf individuals leaving jobs due to disability-related biases. After careful study of research papers done by scholars and working with low-end and High-end Hearing aid devices, we decide to start with the analysis of audio signals and implementing the different algorithms in computational tools like MATLAB and Python. Subsequently, we found the quality of hearing aid devices depends on three factors SNR, SI-SNR, and PESQ. Working with different algorithms and modifying some, we achieved better quality hearing aids than existing high-end hearing aids using the SepFormer algorithm. The overall systems shows better results on the signal quality improvements to ensure the HA performance. The Metric GAN-based method has the good variations in SI-SNR of 9.42, PESQ of 3.15. Hence, using the proposed model enhance the quality of HA and supports the dumb people. The quality of the HA is analysed using this proposed method with AI enabled technology.

Document Sections

- I. Introduction
- II. Proposed Methods
- III. Experimental Analysis
- V. Conclusion and Future Work

Authors

Published in: 2023 Third International Conference on Smart Technologies, Communication and Robotics (STCR)

Mr.J.R.Dinesh Kumar, Assistant Professor, Department of **ECE** presented and published his three conference papers titled **“A Systematic Approach in Detecting Brain Tumor using CCNN Algorithm”**, **“Certain Examination on ECG Classification using Hybrid Machine Learning Models”** and **“Certain Investigation of Various Algorithms to Improve the Quality of Hearing Aid”** in the 2023 Third International Conference on Smart Technologies, Communication and Robotics (STCR). It is a Scopus Indexed Conference.

R&D | JOURNAL PUBLICATION | CIVIL

A Qualitative Study and Analysis of Claim Problems in Indian Construction Industry

Mukilan Karuppasamy ^{1,a)}, Chithambarganesh Arunsankar ^{2,b)}, Chandra Devi Raman ^{3,c)}, Velmuni Pandi ^{1,d)}, Sureshkumar Arumachalam ^{4,e)}, Arunkumar Kadarkarai ^{4,f)}

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Abstract. Most development projects are experiencing claims having numerous causes. Since 2010, claim disclosures have increased as a result of the overall political climate. These allegations had a significant impact on every group involved in the building industry. The consequences of the claim could include expense invasion, loss of efforts and job interruption, and contract termination. This examination intends to perceive the simple explanation behind the guarantees in development and exhibit their contrast between respondents regarding the specific, organizational, and association attributes. It also points out the significant variables in producing for the administration of development project claim to anticipate a guaranteed event and alleviate a case's negative effect. The target of the examination was accomplished through a questionnaire survey from a few development organizations. The poll study was led, including the project worker, specialist, customer perspective. The consequence of the study experienced in the SPS programming for finding the primary consideration that influences the development. The finding shows the nonattendance of site consideration regarding recognizing cases, separation or difficulty to reach of related archives proactively, and clashes created during proprietor/worker for hire exchange are essentially fundamental problems associated with the arrangement of construction claim management system. Through survey paper, this work hopes to identify various claims and identify the factors that have the greatest impact on construction claims in our southern region.

Dr. R. Chandra Devi, Associate Professor, Department of Civil Engineering, has published a research article titled “A Qualitative Study and Analysis of Claim Problems in Indian Construction Industry” in AIP Conference Proceedings.

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Become a trivia champ, with these little-known medical facts about the human body.

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SWEAT GLANDS



PEOPLE shed
600,000
SKIN PARTICLES
every hour.



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can recognize
50,000
DIFFERENT ODORS.



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is made up of
7 OCTILLION ATOMS.
Almost all are hydrogen, oxygen, carbon or nitrogen.





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EEE | FDP ON ADVANCING AI-DRIVEN COMPUTING SOLUTIONS

Ms.C.Pavithra, Assistant Professor, EEE Department has participated in Five Days Faculty Development Program on **“Advancing AI-Driven Computing Solutions for Embedded Systems and Communication Networks”** organized by the Department of Electronics and Communication Engineering, Sri Krishna College of Engineering and Technology, Coimbatore from 19-02-2024 to 23-02-2024.



EEE | FDP ON EMPOWERING EDUCATORS



Ms.G.Mahalakshmi, Assistant Professor, EEE Department has participated in Five Days Faculty Development Program on **“Empowering Educators: AI in Robotics and Automation for Innovative Initiatives in the Digital Era”** organized by Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore from 04-12-2023 to 08-12-2023.

S&H | FDP ON OUTCOME BASED EDUCATION AND APPLICATION OF GENERATIVE AI IN TEACHING AND RESEARCH

Ms. Antonitta Eileen Pious, AP, S&H has attended a one - week National Level FDP on Outcome Based Education and Application of Generative AI in Teaching and Research organized by the DST-CURIE-AI center SPMVV University from 18th March to 23rd March 2024 and secured an A grade.



MCT | FACULTY CERTIFICATION



Dr. M. Bhuvaneshwari and Dr.S.Dinesh Assistant Professors of Mechatronics Engineering, have participated in six days **Rapid Learning Program** on “**From Dream to Reality: AI Leading the Future**” organized by the Department of Computer Science Engineering , Sri Venkateswara College of Engineering from March 18th 2024 to March 22nd 2024.



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CSE | BEST PAPER PRESENTATION (ICFTA'24)



Dr.N.Kousika , Assistant Professor, CSE has been awarded the **Best Paper Presentation** for the outstanding contribution titled “**Human-Conduct Based Customized Meal Suggestion and Menu Arranging Social Framework**” in the **International Conference on Future Technology Advancements - 2024 (ICFTA'24)** held on 27th March 2024. The remarkable presentation demonstrated exceptional research skills, innovative ideas and insightful analysis, enriching the academic disclosure of the conference.



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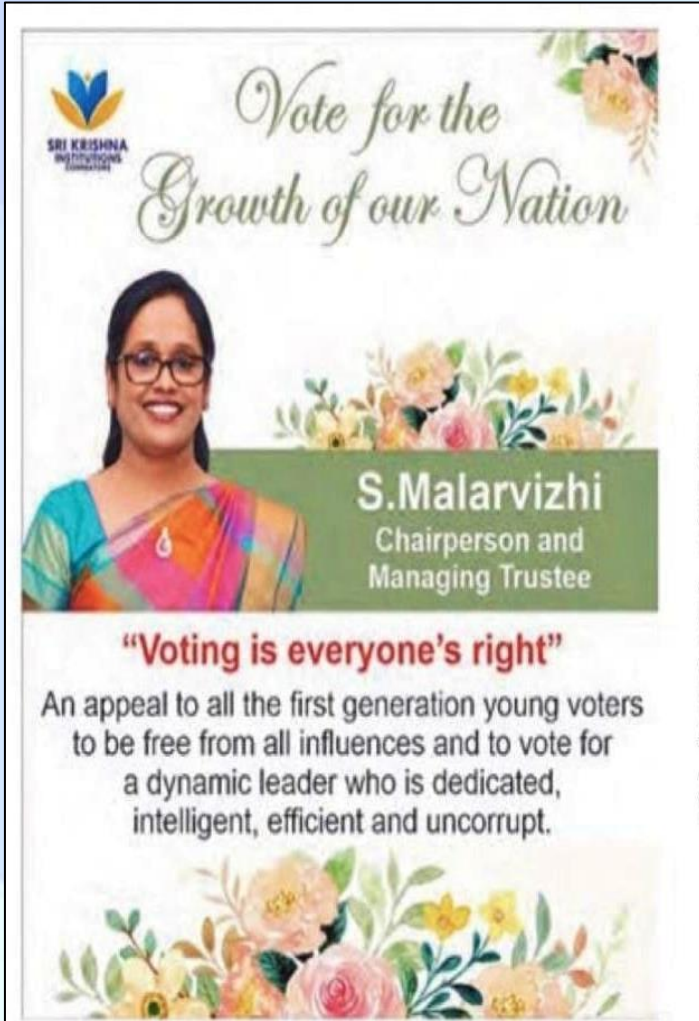


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THE HINDU

Sri Krishna Institutions inaugurates dedicated Data Centre

Sri Krishna Institutions, Coimbatore (SKI) launched its dedicated and centralized Data Centre today. S. Malarvizhi, Chairperson and Managing Trustee, Sri Krishna Institutions inaugurated this SKI-Data Centre in the presence of K. Adithya, Trustee, K. Sundararaman, CEO and Principals of various colleges under Sri Krishna Institutions.

