

**SKCET**

**Buzz**



**14<sup>th</sup> - 20<sup>th</sup> September 2024**



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*Happy Reading!*



# HACKATHON ACCOLADES



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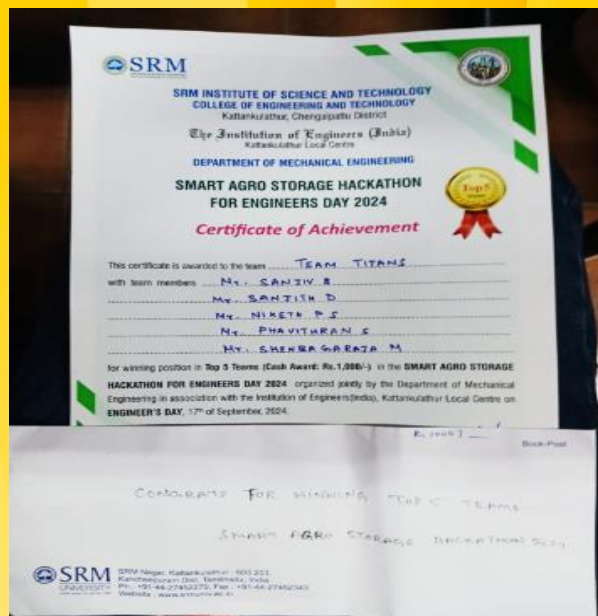
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# MCT | HACKATHON PARTICIPATION



Second year student team from the Department of MCT has participated in “**Smart Storage Agro Hackathon**” conducted by SRM University, KTR, Chennai on 17.9.2024. The team has emerged one among the top 5 teams out of 58 teams that participated. The students were awarded with certificates and cash prize.

### Team members:

- Sanjiv B
- Phavitharan S
- Sanjith D
- Niketh S
- Shenbagaraja S

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## STUDENTS PROGRESSION



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## CIVIL | TALENT SEARCH QUIZ



**Abishake S**, student of Final year **Civil Engineering** has participated and won the 3<sup>rd</sup> prize in Talent search Quiz Competition – 2024 organized by Coimbatore District All Civil Engineers Association (CODCEA) on 13.9.2024.



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## EVENTS



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## CIVIL | OUTSIDE CLASS LEARNING EXPERIENCE



Final year **Civil Engineering** students were taken to **Precast Yard, KNR Constructions Limited** at Supparayampalayam for an Outside Classroom Learning Experience for the Course Prefabricated Structures on 13.09.24.

The student got an exposure on

- Prefabrication methods
- Machineries and equipment's used for prefabrication
- Prestressing techniques
- Curing Techniques
- Quality control and checking
- Handling of prefabrication elements and stacking
- Assembling prefab elements



## CSE | HACK HAVOC - CODING CHALLENGE



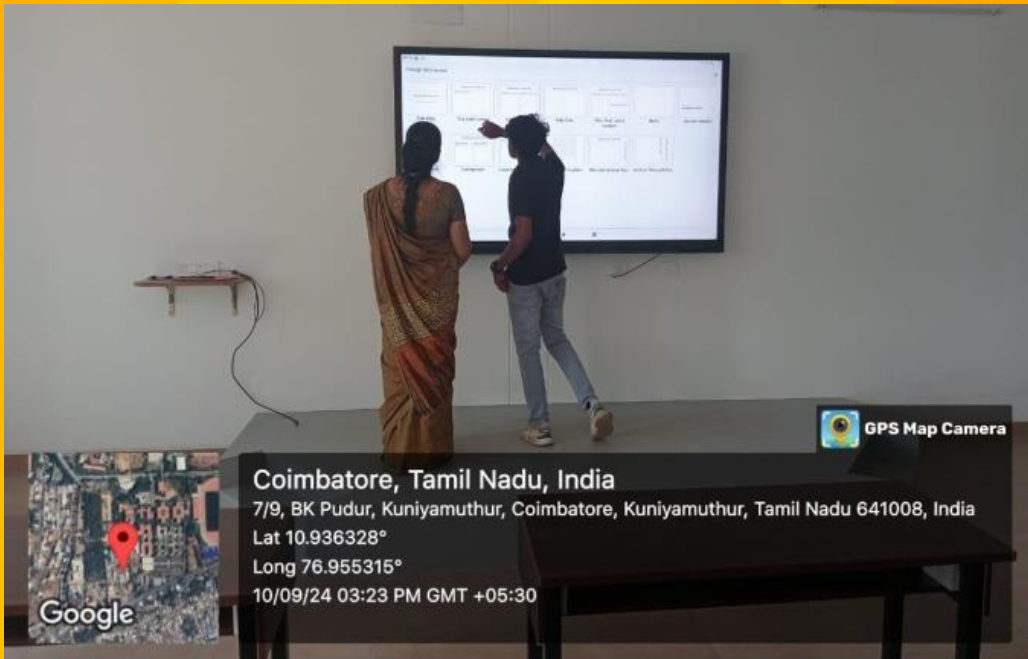
Department of **Computer Science and Engineering** conducted "**Hack Havoc**" Coding Challenge on September 13, 2024.

### Event Highlights:

- Challenging coding problems and puzzles
- A variety of programming languages and frameworks
- Creative problem-solving techniques
- Networking opportunities with peers and industry experts



# ECE | SMART BOARD DEMONSTRATION



**Mr.R.Pradeep** from Newline India Pvt. Ltd., Chennai, delivered hands on session on using Newline Smart Panels for newly joined faculty members on September 10, 2024.



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## TUTOR WARD MEETING



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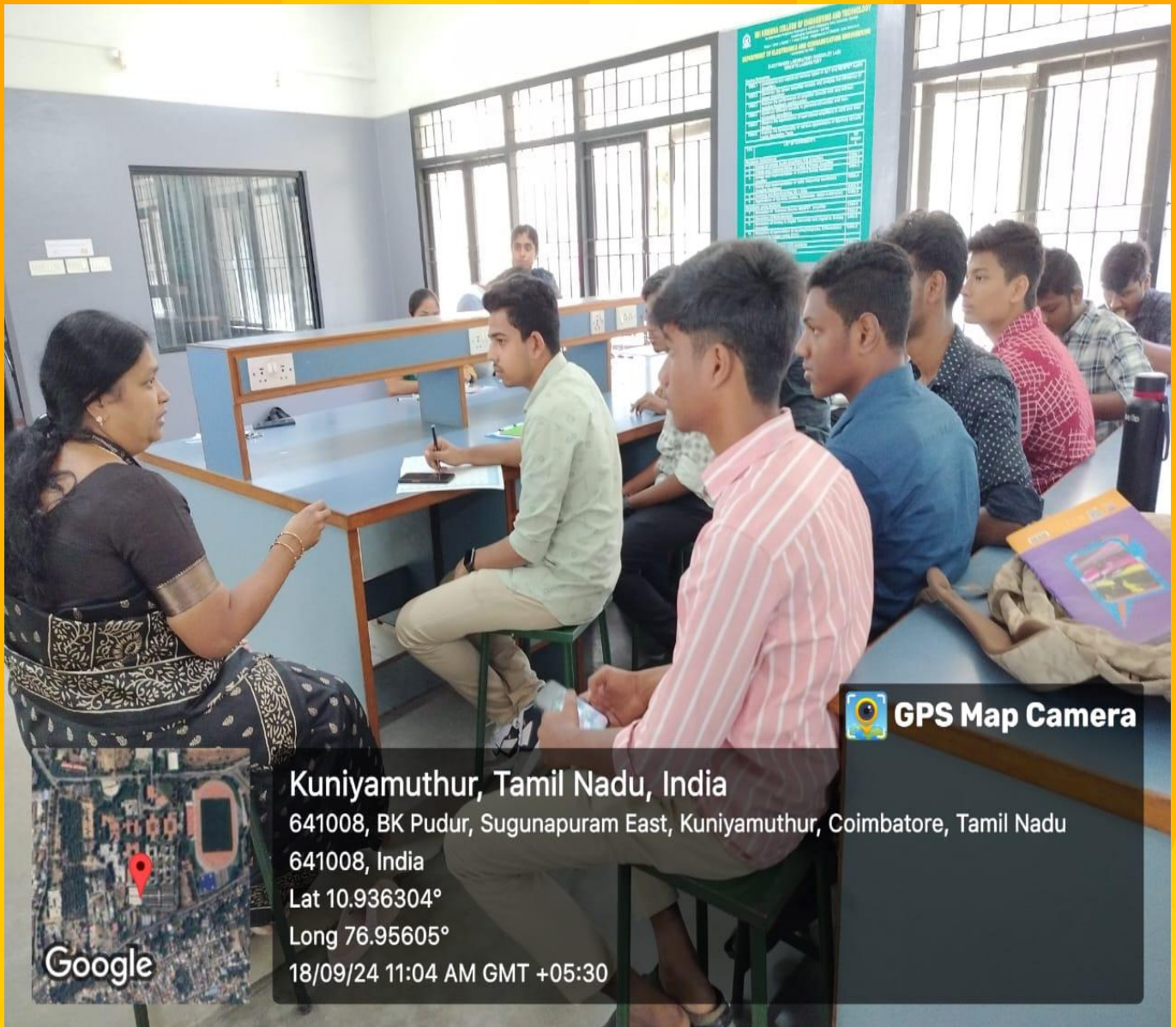
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## ECE | TUTOR WARD MEETING



First Tutor ward Meeting for First year **ECE** students was held on 18.09.2024. The meeting was conducted by **Dr Mohana Geetha**, Professor Department of ECE. The key points discussed in meeting were: Classroom Activity, Feedback, college environment and adaptability, basic information of each student.



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**PLACEMENT AND  
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## SKCET - TCS: LEADERSHIP TEAM INTERACTION



Dr.K.Porkumaran, Principal, **SKCET** welcomed and interacted with **Mr.Ganesh Thirunavukkarasu M**, Regional Head - Academic Alliances Group, **Mr.Bharathwaj Narayanan**, Head Strategy and Marketing CBG IT IS, **Mr. Ajas Ahamed Azizudeen**, Head -Technology Transformation and Alliances, TCS, at SKCET campus on 12.9.2024. Principal Sir thanked TCS team for hiring SKCET students every year and highlighted niche technologies like AI, ML, Data analytics, VLSI technologies that are included in the syllabus to bridge the gap between academia and industry.

### Highlights

- TCS CBG (Consumer Business Group) MoU with SKCET for hiring students exclusively for TCS.
- Collaboration with TCS for special industry mentored electives in niche technologies.
- TCS R &D unit supported Research activities to bolster Industry – academic research work.
- Faculty Internship @TCS Chennai office.



## SKCET: TCS LEADERSHIP TEAM INTERACTION

**tcs** **TATA**  
**CONSULTANCY**  
**SERVICES**



TCS CBG (Consumer Business Group) team interacted with Deans and HOD'S to bolster Industry based curriculum in various departments of SKCET on 12.9.24. TCS team also presented various use cases that can be incorporated in to curriculum to make students Industry ready.

### Highlights:

- TCS CBG (Consumer Business Group) – Special electives for III-year Students.
- Weekly connect with TCS business unit heads for special sessions.
- Project based curriculum mentored by TCS Software architects.
- Weekly project reviews and business uses cases by TCS software engineers for Third year students.

## SKCET: TCS LEADERSHIP TEAM INTERACTION



TCS Leadership team **Mr. Ganesh Thirunavukkarasu M**, Regional Head Academic Alliances Group, **Mr. Bharathwaj Narayanan**, Head Strategy and Marketing CBG ITIS , **Mr. Ajas Ahamed Azizudeen**, Head -Technology Transformation and Alliances, TCS ,interacted with the Third year 2026 batch students at SKCET Convention center on 12.9.24.

### Highlights

- TCS special electives / credit courses for 2026 batch students.
- TCS CBG (Consumer Business Group) – tech stacks, latest niche technologies they are working on to support various customers across North America and Europe.
- Gen AI Use cases in TCS CBG division.
- Backend frameworks, network, database, data center, end user devices etc in TCS CBG division.
- Internship for pre-final year students in Cloud computing



## SKCET - ZOHO: LEADERSHIP TEAM INTERACTION



**Dr.K.Porkumaran**, Principal, SKCET welcomed and interacted with **Mr.Sohail MI**, Associate Director- TA & Global HR operation and **Mr.Dhinesh Khanna Ramalingam**, Global Head - Customer Success, at SKCET campus. Principal Sir thanked ZOHO team for hiring our students every year and highlighted the Stellar achievements of SKCET students in placements and hackathons.

### Highlights

- Zoho uses cases implementation in MBA curriculum and Engineering.
- Zoho experts in MBA curriculum design for incorporating latest Data management and financial tools.
- B.Tech AI&DS curriculum verticals and inclusion of niche technologies in electives.
- Train the Trainer program for MBA faculty
- Internship for pre-final year students in zoho office for real world applications.

## SKCET | PLACEMENT TESTIMONIALS

My name is Sanjith D and I recently graduated from the Computer Science and Engineering program in the 2024 batch at SKCET. My on-campus placement process led to my placement at Capgemini. Together with better placement training through qualified professors, my college offers a quality education. There are numerous placement opportunities at my college, which is among the best in Tamil Nadu. I am grateful to my parents, the SKCET management, the Principal and the entire community for nurturing my career and providing me with a solid foundation for success.

**SANJITH D,  
CSE  
CAPGEMINI**





## EEE | PLACEMENT TESTIMONIALS

I am **Lakshmi Praba S**, final year student of **Electrical and Electronics Engineering** department of batch 2021–2025. I express my gratitude towards SKCET family for enabling me to establish a firm ground work in engineering, to refine my technical proficiencies and offer me an opportunity where I can put my knowledge and skills into practical use. I am grateful to my respective Head of the Department, my tutors and the faculty members of EEE department who provided me with unwavering support and guidance throughout my academic journey. The vast amount of placement training helped me crack my tests and interviews. Placement cell guided me for every step from resume building to final HR interviews through consistent trainings. I would like to express my heartfelt gratitude to the Placement Dean and all placement coordinators for their invaluable guidance and support, which helped me to secure my placement at **‘Tredence Analytics’** and provided me with solid foundation for my career. Thank you once again for being a part of my journey and for helping me to reach this milestone.

**Lakshmi Praba S**

**EEE (2025 Batch)**

**Tredence Analytics - 6.5 LPA**



## SKCET | PLACEMENT TESTIMONIALS

Firstly, I would like to extend my heartfelt thanks to the entire Sri Krishna family for their unwavering support and dedication. Today, as I embark on this exciting journey in my career, I can confidently say that Sri Krishna has not just imparted education, but has also nurtured my overall development. The guidance and support provided by the faculty and placement team were exceptional. Not only they equip me with the necessary skills and knowledge, but they also groomed me to be a confident and industry-ready professional. I am incredibly grateful for the professors and staffs of my department for their rigorous training, which played a pivotal role in helping me secure a covered position at Hexaware Technologies. I can say that SKCET has been the best part of my life and I admire the support and dedication I received from the management and the faculty members.

**ANUSH C,  
EEE  
HEXAWARE TECHNOLOGIES**





# SKCET Buzz



## RESEARCH AND DEVELOPMENT



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# R&D | PAPER PUBLICATION | ECE

link.springer.com/article/10.1007/s00034-024-02845-5

**SPRINGER LINK**

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Home > Circuits, Systems, and Signal Processing > Article

## An Evaluation of Dimensionality Reduction and Classification Techniques for Cardiac Disease Diagnosis from ECG Signals with Various Deep Learning Classifiers

Published: 06 September 2024  
(2024) [Cite this article](#)

S. Karthikeyani, S. Sasipriya & M. Ramkumar

12 Accesses [Explore all metrics](#)

### Abstract

Classification of cardiac diseases from electrocardiogram signals is essential for enhancing patient results to minimize healthcare costs, early detection and accurate diagnosis. This research investigates the integration of dimensionality reduction methods with various deep learning classifiers to improve the accuracy and efficient classification of cardiac disease. Uniform Manifold Approximation and Projection combined with Principal Component Analysis is used for dimensionality reduction, that captures both global and local data structures. Deep learning classifiers with convolutional neural networks, capsule networks, recurrent neural networks, graph neural networks, deep long short-term memory and automatic attention-based convolutional neural networks are employed for classification. The Adaptive spiral Flying Sparrow Search algorithm optimizes classifier parameters for enhanced accuracy. Performance is evaluated through various metrics with

**Dr.S.Sasipriya**, Professor and Head, Department of **ECE**, has published SCI and Scopus indexed Journal titled “**An Evaluation of Dimensionality Reduction and Classification Techniques for Cardiac Disease Diagnosis from ECG Signals with Various Deep Learning Classifiers**” in the Journal, Circuits, Systems, and Signal Processing. **DoI:** <https://doi.org/10.1007/s00034-024-02845-5>.

# R&D | PAPER PUBLICATION | MCT

**Dr.G.Veerappan**, Associate Professor of **MCT** has published a paper titled “**Investigation on materials removal rate and surface roughness of temperature resisted Waspaloy during electric spark machining utilizing gray relational analysis**” in AIP Advances (Annexure Q1) indexed in Web of Science with impact factor 1.6.

AIP Advances ARTICLE pubs.aip.org/aip/adv 2

## Investigation on materials removal rate and surface roughness of temperature resisted Waspaloy during electric spark machining utilizing gray relational analysis

Cite as: AIP Advances 14, 085133 (2024); doi: 10.1063/5.0220951  
Submitted: 29 May 2024 • Accepted: 11 August 2024 •  
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G. Veerappan,<sup>1</sup> Kamaraj Logesh,<sup>2</sup> V. Mohanavel,<sup>3,4,5</sup> M. Ravichandran,<sup>6,8,9</sup> Ahmed Ahmed Ibrahim,<sup>7</sup> Salahuddin Khan,<sup>10</sup> S. Suresh Kumar,<sup>11</sup> Sathish Kannan,<sup>12</sup> and Jayant Giri<sup>13</sup>

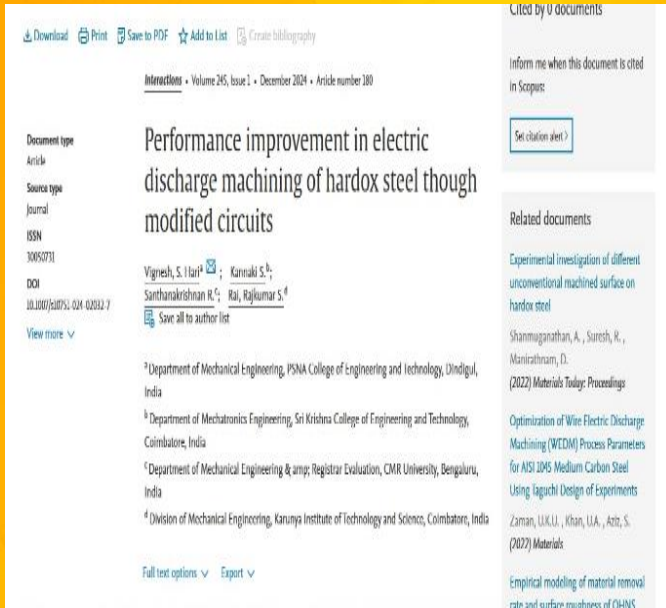
### AFFILIATIONS

<sup>1</sup>Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore 641008, Tamil Nadu, India  
<sup>2</sup>Department of Mechanical Engineering, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai 600062, Tamil Nadu, India  
<sup>3</sup>Centre for Materials Engineering and Regenerative Medicine, Bharath Institute of Higher Education and Research, Selaiyur, Chennai 600073, Tamil Nadu, India  
<sup>4</sup>Department of Mechanical Engineering, Amity University Dubai, 345019, United Arab Emirates  
<sup>5</sup>Department of Mechanical Engineering, K.Ramakrishnan College of Engineering, Samayapuram, Trichy 621112, Tamil Nadu, India  
<sup>6</sup>Department of Mechanical Engineering & University Centre for Research & Development, Chandigarh University, Mohali 140413, Punjab, India  
<sup>7</sup>Department of Physics and Astronomy, College of Science, King Saud University, P.O. Box 2455, 11451 Riyadh, Saudi Arabia  
<sup>8</sup>College of Engineering, King Saud University, P.O. Box 800, Riyadh 11421, Saudi Arabia  
<sup>9</sup>Department of Mechanical Engineering, T.J.S.Polytechnic College, Peruvoyal, 601206 Kavaraipeetai, Tamil Nadu, India  
<sup>10</sup>Department of VLSI Microelectronics, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai 602105, Tamilnadu, India  
<sup>11</sup>Department of Mechanical Engineering, Yeshwantrao Chavan College of Engineering, Nagpur 441110, Maharashtra, India

<sup>12</sup>Authors to whom correspondence should be addressed: [mohanavel2k16@gmail.com](mailto:mohanavel2k16@gmail.com) and [smravichandran@hotmail.com](mailto:smravichandran@hotmail.com)



# R&D | PAPER PUBLICATION | MCT



**Ms.S.Kannaki,** Assistant Professor of **MCT** has published a paper titled **“Performance Improvement in Electric Discharge Machining of Hardox Steel through Modified circuits”** in Springer's Interactions. This is a scopus indexed in publication.

## CAN YOU SOLVE?

2	+	3	=	8
3	+	7	=	27
4	+	5	=	32
5	+	8	=	60
7	+	9	=	?



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## EEE/CSE | ACADEMIC MENTORS FOR PREMIER INSTITUTIONS UNDER IEEE SMP 2024



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### IEEE INDIA COUNCIL - Student Mentorship Program 2024

**SKCET - EEE/CSE : Academic Mentors for Premier Institutions under IEEE Student Mentorship Program (SMP) 2024!**



**Dr. P. Vinoth Kumar**  
Associate Professor/EEE



**Ms. R. Geethamani**  
Assistant Professor/EEE



**Ms. G. Mahalakshmi**  
Assistant Professor/EEE



**Dr. G. Radhakrishnan**  
Associate Professor/EEE



**Ms. T. Malini**  
Assistant Professor/EEE



**Dr. M. Rohini**  
Assistant Professor/CSE



**Dr. S. Oswalt Manoj**  
Associate Professor/CSE

**Congratulations Team!**

Following faculty members have been selected as **Academic Mentors for Premier Institutions** under '**Student Mentorship Program (SMP) 2024**'. This program is organized by the **IEEE India Council Industry Academia Young Professionals Committee (IAPYC)** which fosters collaboration between industry, academia and young professionals across various IEEE India Council sections.

#### Academic Mentors:

- Dr. P. Vinoth Kumar - ASP/EEE, Dr. G. Radhakrishnan - ASP/EEE,
- Ms. G. Mahalakshmi - AP/EEE, Ms. R. Geethamani - AP/EEE
- Ms. T. Malini - AP/EEE, Dr. S. Oswalt Manoj - ASP/CSE, Dr. M. Rohini - AP/CSE

#### About the Program:

The **Student Mentorship Program (SMP)** aims to create a nurturing environment where participants can grow both professionally and personally by sharing knowledge, building networks, and engaging with the broader IEEE community at Premier Institutions. It is designed to enhance mentees' skills, confidence, and career prospects, while also providing mentors with the opportunity to give back to the community and further develop their mentoring capabilities.

Each mentor will provide guidance to up to three mentees through one-on-one online meetings, offering their expertise and experience. The program will run from **September 2024 to November 2024**.

# EEE | SUMMER FACULTY RESEARCH FELLOWSHIP



**Ms. C. Pavithra**, Assistant Professor, **EEE** Department has participated in the '**Summer Faculty Research Fellow Programme**' (SFRF - 2024) under Continuing Education Programme held from 21.05.2024 to 12.07.2024 at **Indian Institute of Technology, Delhi** under the guidance of Faculty Mentor **Dr. Nilanjan Senroy**, Power Grid Chair in Electrical Engineering at IIT Delhi.





# FACULTY CERTIFICATIONS



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## AI&DS | INFOSYS SPRING CERTIFICATION



**Mr.G.S.Pugalendhi,** Assistant Professor of **AI&DS** has successfully completed course titled **“Git & GitHub: Working with Git Repositories”** offered by **Infosys Springboard** on **15.09.2024.**

## MCT | MOOC CERTIFICATION

**Dr.J.Indirapriyadharshini,** Associate Professor of **MCT** has successfully completed the **“eLSI: Basics of Embedded Systems and Robotics”**, MOOC conducted as a part of the e-Yantra Lab Setup Initiative (eLSI) by the Department of Science and Engineering, IIT Bombay.





# CSE | NITTTR CERTIFICATION



**Dr. T. Latha Maheshwari**, Assistant Professor, **CSE** has participated in the professional Development Programme on **“Application Development with MongoDB”** from 26-8-2024 to 30-8-2024 through Online organized by National Institute of Technical Teachers Training and Research, Chennai (Ministry of Education, Government of India)

# DID YOU KNOW?





## CREATIVE CORNER



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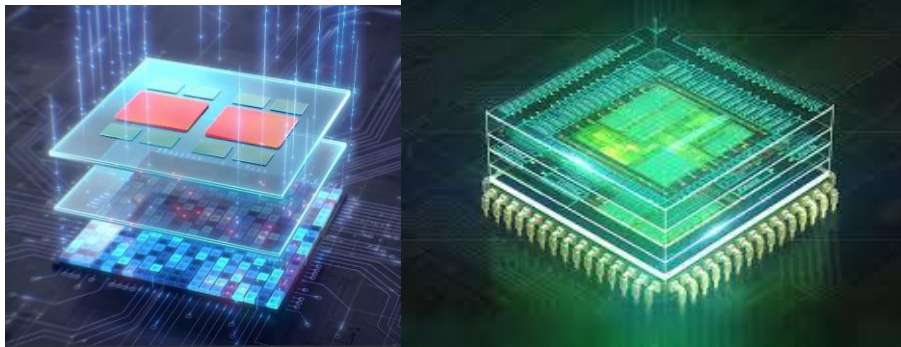
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## ECE | ELEVATING PERFORMANCE: THE FUTURE OF 3D IC UNVEILED FACULTY STUDENTS



Three-Dimensional Integrated Circuits (3D ICs) represent a transformative advancement in semiconductor technology, enabling the vertical stacking of multiple layers of integrated circuits (ICs) to enhance performance, reduce latency, and increase functionality within a compact form factor. Unlike traditional 2D ICs, which lay out transistors and interconnects on a single plane, 3D ICs leverage vertical integration to create a more efficient and high-performance architecture. This approach not only improves the chip's overall performance but also offers significant benefits in terms of power consumption, bandwidth, and space utilization.

The fundamental concept behind 3D ICs involves stacking multiple silicon wafers or dies and connecting them using vertical interconnects known as Through-Silicon Vias (TSVs). These TSVs are tiny, vertical electrical connections that pass through the silicon wafer, enabling direct communication between different layers of the stack. This vertical integration reduces the distance data needs to travel, which decreases signal delay and improves data throughput.

**Nandhini.S - II Year**

## MCT | CREATIVE CORNER



**Dr.K.Ananthi**  
**ASP/ MCT**