SKCT
DIGEST

THE PRIDE OF OUR REFLECTION

"Everything is theoretically impossible,
until it is done"
— Robert A. Heinlein.

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📞 0422-2984567 - 68
📍 Kovaipudur,
Coimbatore - 641 042.

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skct.edu.in

/SKCTOfficial

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Academic Review Meeting

The Dept. of ADS conducted the **"Academic Review Meeting"** for the Students of First B.Tech. ADS and their parents on 29 October 2024.

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Student Participation

Mr Ananias Remo A, Student of Second B.Tech. ADS, completed an **"Online Certification Course"** through Infosys Springboard.

Infosys
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

ANANIAS REMO A

for successfully completing the course

Essential Maths: Exploring Linear Algebra

on October 28, 2024

Infosys | Springboard

Congratulations! You make us proud!

Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited

Issued on: Monday, September 2, 2024
To verify, scan the QR code at https://verify.onwingspan.com

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Student Traineeship

Mr Elangovan M, Student of Second B.Tech. ADS, completed **"Traineeship"** through Ui/Ux Traineeship.

TRAINEESHIP CERTIFICATE

We hereby present this certificate to

Elangovan M

for successfully completing

Ui/Ux Design Traineeship

Issue Date: 29 OCTOBER 24   Credential ID: MYMUIUXD1542

Varun Sivachandran
Chief Product Officer

Maiyyam Design Mentor

CSE (CYBER SECURITY)

Students' Participation

The Dept. of CSE (Cyber Security) organised events on **"Code Quest and Secure Sphere"** as a part of **CYBER SURAKSHIT BHARAT**, a special initiative in support of the National Cyber Security Awareness Month (NCSAM) on 24 October 2024.

CSE (AML)

Student Participation

Mr Navindran V, Student of Second B.E. CSE (AI&ML), participated in the **"Level 1 E-Commerce and Tech Quiz of the Flipkart GRID 6.0 – Software Development Track"** organised by the Flipkart.

unstop   Flipkart

Certificate of Participation

This is to certify that
Navindran V

from Sri Krishna college of Technology has participated in
the Level 1: E-Commerce & Tech Quiz of the Flipkart GRiD
6.0 - Software Development Track organised by the
Flipkart .

SKCT supports the Sustainable Development Goals

CSE (AML)

Student Participation

Mr Navindran V, Student of Second B.E. CSE (AI&ML), completed one-month internship programme on Artificial Intelligence at **CODSOFT** during 25 September-25 October 2024.

C.ID: 40ebbf0

CodSoft

CERTIFICATE

OF COMPLETION
PROUDLY PRESENTED TO

Navindran.V

has successfully completed 4 weeks of a virtual internship program in

Artificial Intelligence

with wonderful remarks at **CODSOFT** from 25/09/2024 to 25/10/2024.

We were truly amazed by his/her showcased skills and invaluable contributions to the tasks and projects throughout the internship.

Founder

contact@codsoft.in   www.codsoft.in   Date: 28/10/2024

CSE (AML)

Student Participation

Mr Navindran V, Student of Second B.E. CSE (AI&ML), participated in the **"TATA Crucible Campus Quiz 2024"** organised by the Tata Group.

unstop

TATA CRUCIBLE THE CAMPUS QUIZ

Certificate of Participation

This is to certify that

Navindran V

from Sri Krishna college of Technology has participated in the TATA Crucible Campus Quiz 2024 organised by the Tata Group .

CSE (IoT)

Students' Participation

Ms Apoorva J and **Ms Sneha Lakshmi S,** Students of Third B.E. CSE (IoT), bagged the **Second Prize** in **EBG Socio Innovation Summit 2024** organised with the theme of "Empowering Women Empowering Society" on 26 October 2024. The team received **Rs. 15000/-** to implement the proposed project on "Kriti Sakthi - An AI-powered Integrated Platform for SHG Farmers."

CSE (IoT)

Students' Participation

Mr Adarsh S, Mr Ashwin Raghavendran, Mr Mohammed Hafeez N, Mr Mounesh M and **Mr Dharaneesh A,** Students of First B.E. CSE (IoT), participated in Top Engineers' workshop on **"IC Engines, Electric and Hybrid Vehicles"** in association with Mechanica 2024, IIT Madras on 27 October 2024.

CIVIL ENGINEERING

Faculty Participation

Dr P Subashree, Assoc. Professor, participated in a Seven-day National level Online FDP on **"Future – Ready Educators: Transforming Teaching and Learning in the Present Scenario"** during 07-14 August 2024.

HINDUSTHAN COLLEGE OF ARTS & SCIENCE
Autonomous Institution – Affiliated to Bharathiar University
Approved by AICTE and Government of Tamilnadu
Accredited by NAAC with 'A++' Grade
Hindusthan Gardens, Avinashi Road, Coimbatore-641 028.
hicas@hindusthan.net   www.hicas.ac.in   +91-422-4440555

Department of Commerce with CA & Commerce (IT & BI)
JOINTLY ORGANIZE
SEVEN DAYS NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAMME
ON
"FUTURE – READY EDUCATORS: TRANSFORMING TEACHING AND LEARNING IN THE PRESENT SCENARIO"

CERTIFICATE

has Participated in Seven Days National Level Online Faculty Development Programme on " Future – Ready Educators: Transforming Teaching and Learning in the Present Scenario" held from 07.08.2024 to 14.08.2024 organized by Department of Commerce with CA & Commerce (IT & BI), Hindusthan College of Arts & Science (Autonomous), Coimbatore -641028.

Dr.M.S.Loganathan
Professor & Head
Commerce with CA
CONVENOR

Dr.R.Rajesh
Professor & Head
Commerce (IT & BI)
CONVENOR

Dr.A.Ponnusamy
Principal
PATRON

Made for free wih
Certify'emt

CIVIL ENGINEERING

Students' Achievements

The following Students of Final B.E. Civil Engineering have been selected by M/s Aarbee Structures with 3.2 LPA + allowances:

Athmin M   **Mohan Raj K**   **Dhanush VG**   **Yokeshwaran C**

Atchaya R S   **Dishita A S**   **Rithu Burniga R**

COMPUTER SCIENCE AND ENGINEERING

Faculty Participation

Ms G Sandhya, Asst. Professor, attended an FDP on **"Applied AI: Practical Implementations"** during 14-18 October 2024.

Microsoft   edunet foundation   SAP

TechSaksham

CERTIFICATE

This is to certify that

Sandhya G

from **Sri Krishna College of Technology**
for successful completion of Microsoft India & SAP India led
Faculty Development Program on "Applied AI: Practical Implementations" under
TechSaksham Program from "14th Oct 2024 - 18th Oct 2024".

TSPLMS_76591

Gunjan C. Patel
AI National Skills Director
Microsoft Philanthropies

Dr. Sunil Luthra
Director, Training and
Learning Bureau
AICTE

Rahul Baheti
Chief Business Officer
SAP India

Nagesh Singh
Executive Director
Edunet Foundation

COMPUTER SCIENCE AND ENGINEERING

Students' Participation

Ms Arunjuna Devi R, Student of Second B.E. CSE, created an awareness on **"Importance of Higher education"** among Government School students of Grade 10.

Ms Vishnu Priya R, Student of Second B.E. CSE, bagged the **First Prize** in Paper Presentation at Maria College of Technology, Kanyakumari.

COMPUTER SCIENCE AND ENGINEERING

Students' Participation

Ms Sriharini R, Ms Sugena Munavara K and Ms Munavara K, Student of Second B.E. CSE, participated in the **"Quest Nexus"** event in Anokha 2024, the 12th National level Techfest organised by Amrita Vishwa Vidyapeetham, Coimbatore.

ELECTRONICS AND COMMUNICATION ENGINEERING

Students' Participation

Ms K Divyadharshini, **Ms P Dalinee**, **Ms V Ashika** and **Ms M Harshini**, Students of First B.E. ECE, participated in **"Unique's Manifest"** organised by Rotaract Club of Coimbatore on 26 October 2024.

ELECTRONICS AND COMMUNICATION ENGINEERING

Students' Participation

Mr S U Krishnan, **Mr J Krishna Kanth**, and **Mr M P Nivas**, Students of First B.E. ECE, participated in a workshop on **"Web Automation"** at IIT Madras on 27 October 2024.

ELECTRONICS AND COMMUNICATION ENGINEERING

Students' Participation

Mr C Divakar, **Mr D L Aksheyakumaran** and **Mr S Dhanavinth Vijay**, Students of First B.E. ECE, participated in a workshop on **"Empathize, Ideate, Prototype - an Adventure In HCI"** organised by Amirta Vishwa Vidyapeetham, Coimbatore on 18 October 2024.
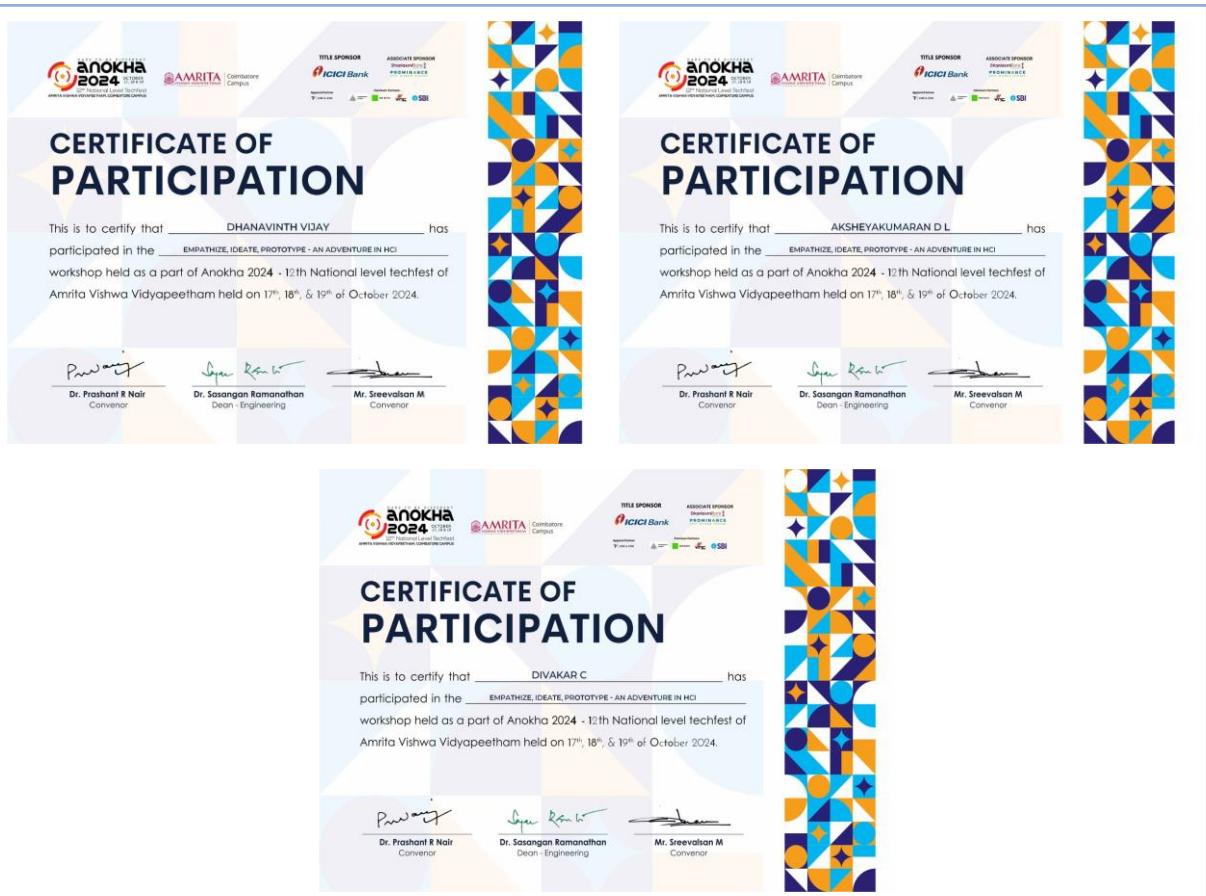
ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Participation

Dr K Bagyalakshmi, Asst. Professor, attended an FDP on **"Block Chain Technology Innovations and Applications"** organised by Datta Meghe College of Engineering during 09–15 October 2024.

Mr M Arun Kumar, Asst. Professor, attended an FDP on **"Exploring Transformative Applications of Artificial Intelligence: Innovation in Biomedical Engineering"** organised by Sri Ramakrishna Engineering College, Coimbatore during 14-18 October 2024.

ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Participation

Mr G Santhakumar, Asst. Professor, attended a workshop on **"Advanced Artificial Intelligence and Global Optimization Techniques for Antenna Modeling and Design"** organised by NIT Slichar on 22 October 2024.

IEEE APS Joint Section Chapter-Silchar

MTT-S IEEE MICROWAVE THEORY & TECHNOLOGY SOCIETY
Student Branch Chapter-Silchar

IEEE SILCHAR SUBSECTION

NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR

Date: 22 October 2024

Time (IST): 9.30 PM onwards

One-Day Hybrid Workshop on Advanced Artificial Intelligence and Global Optimization Techniques for Antenna Modeling and Design (AMD-2024)

CERTIFICATE OF PARTICIPATION

to

Prof. Santhakumar G, Sri Krishna College of Technology

for attending **One-Day Hybrid Workshop on Advanced Artificial Intelligence and Global Optimization Techniques for Antenna Modeling and Design (AMD-2024)**, delivered by **Prof. Ahmed Hoorfar, Villanova University, USA** and **Dr. Taimoor Khan, NIT Slichar** on *22 October 2024.*

Dr. Ujjal Chakraborty
Coordinator

Dr. Gaurav Singh Baghel
Coordinator

Jointly organized by *IEEE APS Joint Section Chapter-Silchar*, *IEEE MTT-S Student branch Chapter @ NIT Silchar* and *IEEE Silchar Subsection* in Association with *Department of Electronics and Communication Engineering, National Institute of Technology Silchar*

ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Participation

Dr Abinaya, Asst. Professor, participated in **"Socio Innovation Summit 2024"** organised by Sri Ramakrishna Arts and Science College, Coimbatore on 26 October 2024.

ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Publication

Mr Bharaniprakash T, Asst. Professor, published a research article on **"Performance Analysis of Fifteen Level Reduced Device Count Asymmetrical Multi Level Inverter"** in an International Journal of Power Electronics and Drive System, Volume no 15, Issue no 4, 2024 with an impact factor of 1.58.

Performance analysis of fifteen level reduced device count asymmetrical multilevel inverter

Murugesan Manivel[1], Lakshmanan Palani[2], Sivaranjani Subramani[3], Bharani Prakash Thiagarajan[4], Divya Kannusamy[1], Jebakumar Immanuel Devasahayam[5], V. J. Vijayalakshmi[6]

[1]Department of Electrical and Electronics Engineering, Karpagam Institute of Technology, Coimbatore, Tamil Nadu, India
[2]Department of Electrical and Electronics Engineering, Rajagiri School of Engineering & Technology, Kakkanad, India
[3]Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, India
[4]Department of Electrical and Electronics Engineering, Sri Krishna College of Technology, Coimbatore, India
[5]Department of Artificial Intelligence and Data Science, Karpagam Institute of Technology, Tamil Nadu, India
[6]Department of Electrical and Electronics Engineering, Karpagam Academy of Higher Education, Coimbatore, India

Article Info

ABSTRACT

In this article, a fifteen-level reduced device count asymmetrical multilevel inverter is introduced for electric vehicle applications. This novel multilevel inverter topology minimizes the power switches required. Control of the proposed inverter is accomplished via the nearest-level control method. In a typical multilevel inverter, ten to twelve switches are used to create the fifteen levels. A high number of switches are used in traditional multilevel inverters,

ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Publication

Dr Jency Joseph J, Assoc. Professor, published a research article on **"Forecasting Hourly Short Term Solar Photovoltaic Power using Machine Learning Models"** in an International Journal of Power Electronics and Drive System, Volume no 15, Issue no 4, 2024 with an impact factor of 1.58.

Forecasting hourly short-term solar photovoltaic power using machine learning models

Sravankumar Jogunuri[1,2], F. T. Josh[1], J. Jency Joseph[3], R. Meenal[4], R. Mohan Das[5], S. Kannadhasan[6]
[1]Division of Electrical and Electronics Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India
[2]Department of Renewable Energy Engineering, College of Agricultural Engineering and Technology, Anand Agricultural University, Gujarat, India
[3]Department of Electrical and Electronics Engineering, Sri Krishna College of Technology, Coimbatore, India
[4]Department of Electrical and Electronics Engineering, V.S.B Engineering College, Karur, India
[5]Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, India
[6]Department of Electronics and Communication Engineering, Study World College of Engineering, Coimbatore, India

ABSTRACT

Forecasting solar photovoltaic power ensures a stable and dependable power grid. Given its dependence on stochastic weather conditions, predicting solar photovoltaic power accurately demands applying intelligent and sophisticated techniques capable of handling its inherent nonlinearity and volatility. Controlling electrical energy sources is an important strategy for reaching this energy balance because grid operators often have no control over use patterns. Accurately forecasting photovoltaic (PV) power generation from highly

ELECTRICAL AND ELECTRONICS ENGINEERING

Students' Participation

Mr Ravi Prasath P, Mr Shajahan M, Mr Ragavan K S, Mr Praveen S R, Mr Prithiviraj V and **Mr Pearsun Ashby,** Students of Second B.E. EEE, participated in **"TATHVA'24"** organised by NIT Calicut on 27 October 2024.

ELECTRICAL AND ELECTRONICS ENGINEERING

Student Participation

Ms Deva Dharshini, Student of Second B.E. EEE, secured the Second Place in **"Table Tennis - Anna University Sports Board Chennai Zone 10 Tournament"** organised by Hindustan College of Engineering and Technology, Coimbatore on 22 October 2024.

ELECTRICAL AND ELECTRONICS ENGINEERING

Event Organised

The Dept. of EEE conducted an **"Academic Review Meeting"** for the Students of First B.E. EEE and their parents on 29 October 2024.

INFORMATION TECHNOLOGY

Student Achievement

Ms Deepika T, Student of Second B.Tech. IT., bagged the **Second Prize** in **EBG Socio Innovation Summit 2024** organised with the theme of "Empowering Women Empowering Society" on 26 October 2024. The team received **Rs. 15000/-** to implement the proposed project on "Kriti Sakthi - An AI-powered Integrated Platform for SHG Farmers."

INFORMATION TECHNOLOGY

Faculty Participation

Ms P Manohari, Asst. Professor**,** completed the Short-term Programme on "**Advanced Pedagogy"** under MM - TTP of UGC organised by CIT during 23-28 October 2024.

INFORMATION TECHNOLOGY

Faculty Participation

Ms S Saranya, Asst. Professor, completed the course on **"Decision Trees using Python"** through Infosys Springboard.

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INFORMATION TECHNOLOGY

Student Certification

Ms S Yamuna, Student of Second B.Tech. IT, completed the following courses through Infosys Springboard:

- Unix Linux OS - Unix Commands and Processes.
- Java Foundation Certification
- Java OOPs Concepts
- C++: Working with Associative Containers & Algorithms
- C++17 STL Solutions
- CSS3
- React Web Developer Certification
- Figma Training 2022

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||||||||||| COURSE COMPLETION CERTIFICATE |||||||||||

The certificate is awarded to

Yamuna S

for successfully completing the course

Figma Training 2022

on August 14, 2024

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Congratulations! You make us proud!

Thirumala Arohi
Executive Vice President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited

Issued on: Thursday, August 15, 2024
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INFORMATION TECHNOLOGY

Student Certification

**Mr Sharukesh D,** Student of Second B.Tech. IT, completed the following courses through Coursera:

- Data Science Math Skills

- Differential Equations for Engineers

- Linear Algebra: Matrix Algebra, Determinants, & Eigenvectors

- Matrix Algebra for Engineers

- Principal Component Analysis with NumPy

MECHANICAL ENGINEERING

Students' Participation

The Students of Second B.E. Mechanical Engineering attended a webinar organised by Indian Institute of Foundryman.
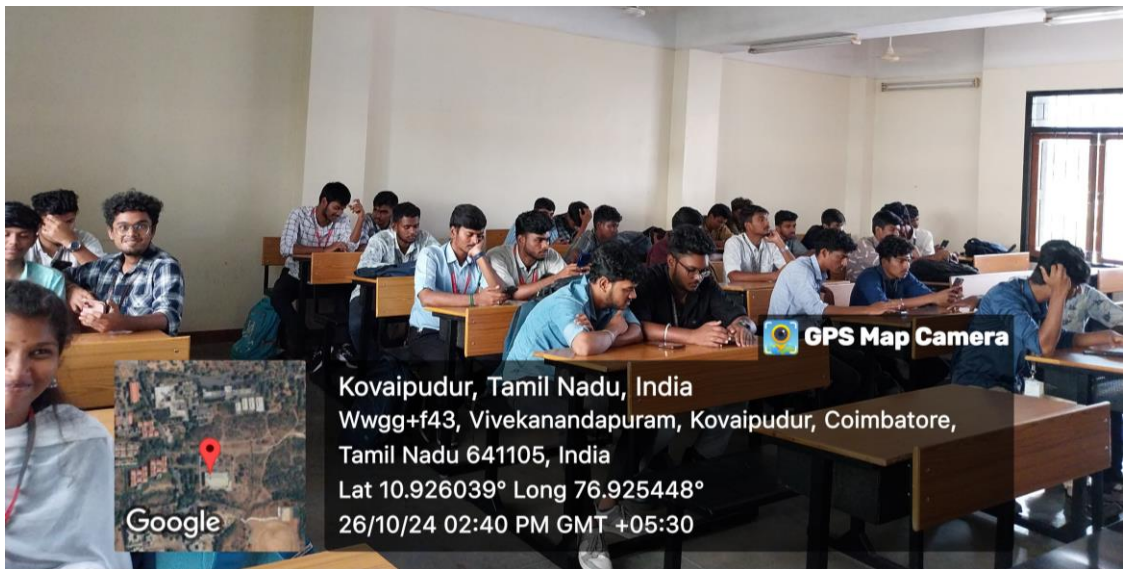
MECHANICAL ENGINEERING

Event

Ms B Kayalvizhi, Asst. Director**,** MSME DFO, Coimbatore done a physical verification of two "**MSME Idea Hackathon Projects"** carried out by the Dept. of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore.

MECHANICAL ENGINEERING

Faculty Participation

The Members of Faculty from the Dept. of Mechanical Engineering attended a Hands-on Training Session on "**Generative AI**, **offering a practical overview of its Principles, Current Applications and Future Potential**" presented by Dr P Prathap, Dr R B Jeen Robert, Professors, Dept. of Mechanical Engineering.
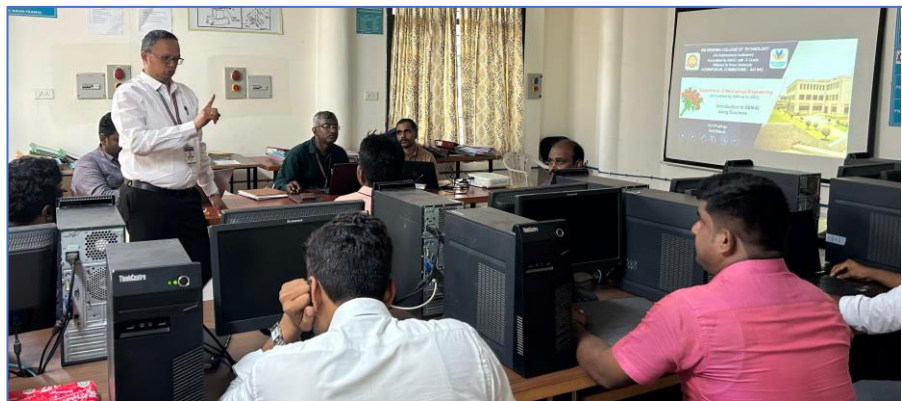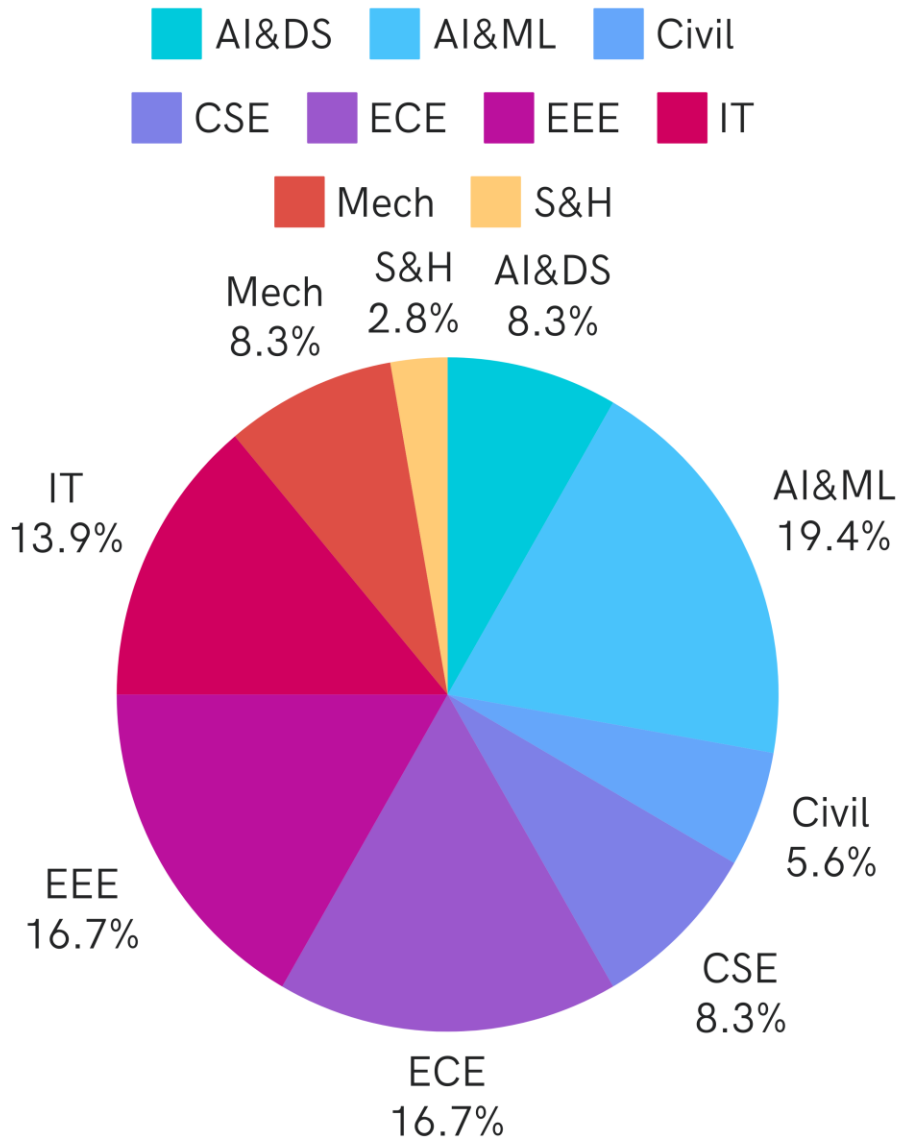
SCIENCE AND HUMANITIES

Faculty Participation

Dr B Kogilavani and **Ms P Jinsha,** Asst. Professors, participated in a One-week International Virtual Workshop on **"Excellence in Research Methodology"** organised by the Dept. of English and other Foreign Languages, Faculty of Science and Humanities, SRM Institute of Science and Technology, Ramapuram, Chennai during 23-28 October 2024.

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CONTENT CONRIBUTIONS BY THE DEPARTMENTS

Legend:
- AI&DS
- AI&ML
- Civil
- CSE
- ECE
- EEE
- IT
- Mech
- S&H

Pie chart values:
- AI&DS 8.3%
- S&H 2.8%
- Mech 8.3%
- IT 13.9%
- EEE 16.7%
- ECE 16.7%
- CSE 8.3%
- Civil 5.6%
- AI&ML 19.4%

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Dr M G Sumithra
Principal

DESIGN & CONTENT EDITORS

Mr M K Prabhu
Assistant Professor
Mechanical Engineering

Ms B Pavithra
Assistant Professor
English

DEPARTMENT COORDINATORS

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- Dr K Vimala, AP/AI&DS
- Ms A Gomathy, AP/CSE
- Ms K Mythili, AP/IT
- Mr K M Manoj, AP/Civil

- Mr G Santhakumar, AP/ECE
- Mr Ajith B Singh, AP/EEE
- Mr K Senthil Kumar, AP/Mech
- Ms S Jaya Preethi, AP/MBA
- Dr B Kogilavani, AP/English

STUDENT EDITORS

Mr T Lokesh
IV B.Tech. AI&DS

Mr R Yashwanthraja
III B.E. Mechanical Engineering

Mr S Nithin
II B.E. CSE (AIML)

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