

**SKCET**



**13<sup>th</sup> April - 17<sup>th</sup> April 2024**



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# HACKATHON ACCOLADES



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## AI&DS | GUVI-HACKTHON



**Second** year student team from the Department of **AI&DS** has achieved remarkable success in **Naan Mudhalvan - Anna University – GUVI - Tamil Nadu Coders Premier League (NM-AU-GUVI- TNcpl) Hackathon** held at Madras Institute of Technology, Chennai. The team has been shortlisted to participate in the final round for the Level-3 AI Hackathon and has also been awarded with **Consolation Prize of Rs 5000**, along with a paid **Internship** offer.

**Project Title:** Learnmate - An AI Personalized Gaming, Learning & Tutor App for Children.

**Team Members:**

- Ms. S. Vanisri, II AI&DS
- Mr. S. Logesh, II AI&DS

**Faculty Mentor:**

Ms. B. Kiruba, AP/AI&DS



# STUDENTS PROGRESSION



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## MECH & MCT | NATIONAL ELECTRIC BIKE CHALLENGE



Student team **Thunder Volt** from the Department of **Mechanical & Mechatronics** Engineering representing SAEINDIA SKCET Collegiate Club has secured **First Prize** in Sales presentation with a cash prize of Rs. 5,000/- in the National Electric Bike Challenge organized by the Society for Smart E-Mobility and KCT from 06.04.2024 to 07.04.2024 hosted at Kumaraguru College of Technology, Coimbatore.

# MECH & MCT | NATIONAL ELECTRIC BIKE CHALLENGE

## NATIONAL ELECTRIC BIKE CHALLENGE

SEASON 2 - 2024

Organised by Kumaraguru College of Technology, in Association with Society for Smart E-Mobility







Team Name: THUNDERVOLT

Category: SALES PRESENTATION

College Name: SRI KRISHNA COLLEGE OF ENGG.

Prize Amount:

₹ 5000/-

### Team members:

1. Pravin B – IV MECH
2. Nithish Kumar R – IV MECH
3. Gurunathan L – IV MCT
4. Mahendra J P – III MECH
5. JebeenDhas A – II MECH
6. Abinov R – II MECH
7. Karthick Kumar S – II MECH

### Team members:

8. Riya Sampareeta V – II MECH
9. Dinesh Kumar M – III MECH
10. Hashwanth S – II MECH
11. Hemanth Kumar G – II MECH
12. Krishnamoorthi G – II MECH
13. Soundaran S – II MECH
14. Paranitharan K T – II MECH
15. Mohamed Izaz H – IV MECH

### Team Mentors:

1. Dr. A. Sathishkumar, AP/MECH
2. Dr. R. Soundararajan, ASP/MECH

## ECE | PROJECT PRESENTATION



**J.Vimal Bethuraj**, student of **Second year ECE** , has won **First Place** with a cash amount of Rs.10,000/- in the "**Project Presentation contest**" held at Velammal College of Engineering and Technology, Madurai on 15.04.2024.



## ECE | STUDENTS ACHIEVEMENT



**Second** year students of **ECE** Department have participated in various events conducted as a part of Astraa'24, Banari Amman Institute of Technology on 09.04.2024 & 10.04.2024 and have won various prizes.

### **Project/Poster Presentation:**

- Siddharth, Sriram, Surya and Yaswanth - 1st price

### **Technical Quiz:**

- Vanathi A - 2nd prize

### **Project Presentation**

- Sudhakar Raja N P - 1st runner up



# STUDENTS CERTIFICATION



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## AI&DS | PROBLEM SOLVING CONTEST



**Kanish Yathra Raj**, student of **Second Year AI&DS** has Participated in **LUNARA 24** event hosted by **BANNARI AMMAN INSTITUTE OF TECHNOLOGY** and won First Prize and Cash award in the **Problem Solving Contest**.

## CSD | TOP PERFORMER IN THE WEB FRAMEWORKS



**Mr.A.Yogeshwaran**, student of **Second** year, **Computer Science and Design** has been honoured with a certificate as the top performer in Web Frameworks (Spring Boot) on April 16, 2024. This recognition was awarded for his exceptional performance during the course conducted by Amypo Technologies Pvt Ltd in March 2024.



# AI&DS | WORKSHOP ON GENAI CRAFTSMANSHIP



**Anugragha B.S, Gokul Srinivasan Prabhu, Kavya VK, Lakshanya, Atchaya V and Gurukrishna**, students of **First year AI&DS** have participated in a Workshop on “**GenAI Craftsmanship: Mastering Prompt Engineering**” held on 20.03.24 at Kumaraguru Institutions, Coimbatore.



## EVENTS



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## MECH | HOD INTERACTION



**Dr. P. Ashokavarthanan**, Head of the Department, **Mechanical Engineering**, addressed the First year Mechanical Engineering students on April 12, 2024, emphasizing the significance of attending classes regularly and actively participating in placement tests.

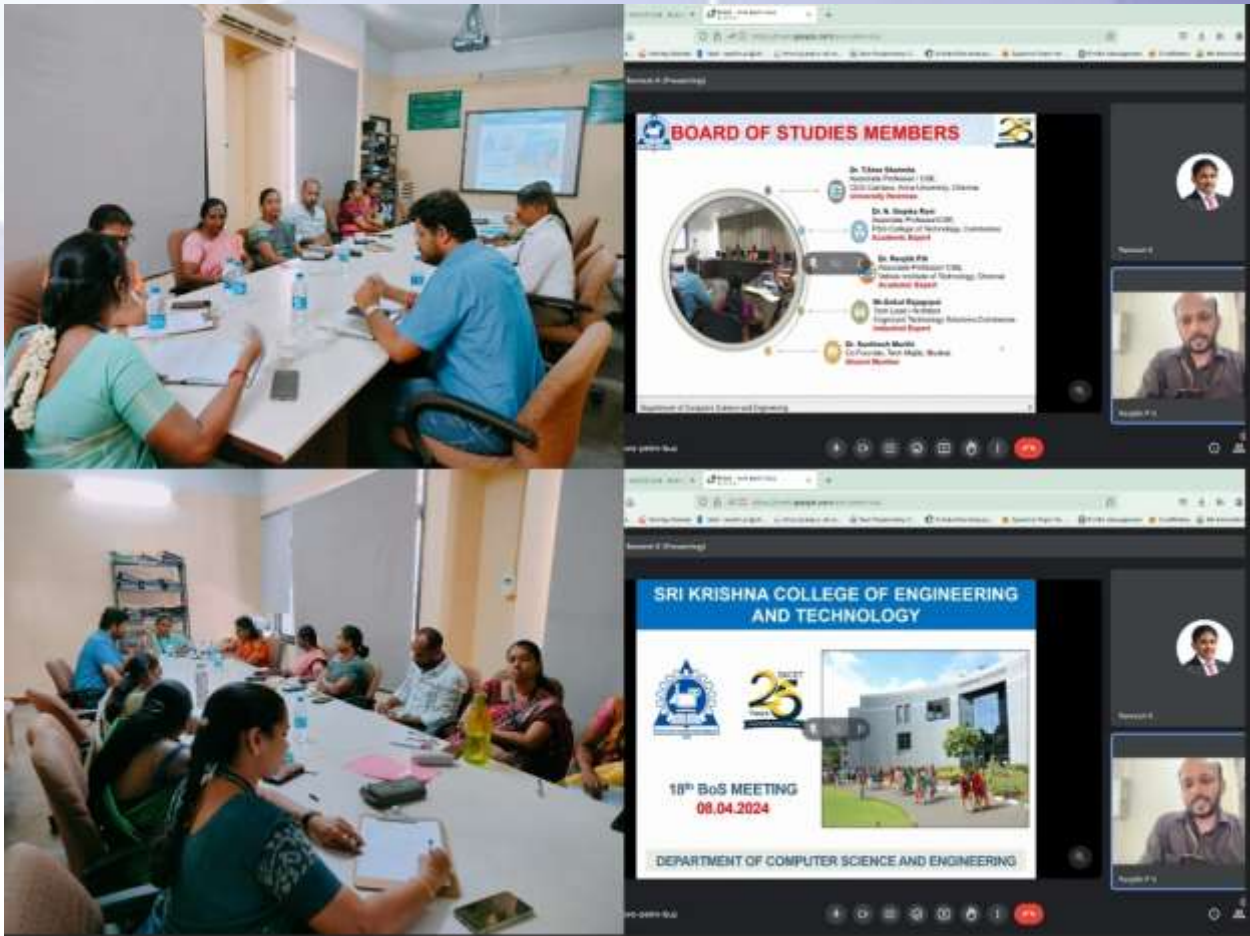
## ECE|BOS MEETING



**19<sup>th</sup> Board of Studies Meeting** for the Department of **Electronics and Communication Engineering** was held on 15<sup>th</sup> April 2024 for syllabus of semester IV under Regulation 2022 and semester III & IV under regulation 2022 (Batch 2023-27). The meeting was convened by **Dr. S. Sasipriya**, Professor and Head ECE along with, **Dr.C.Sanathi**, Professor/ECE, Government College of Technology, Coimbatore, as University nominee, **Dr.Ravi Visvanathan**, Associate Professor (Senior), School of Electronics Engineering, VIT Chennai, and **Dr.J.P.Anita**, Associate Professor/ECE, Amrita Vishwa Vidyapeetham, Coimbatore, were the academic experts. **Mr.Karthikeyan**, Senior Director, Capgemini Engineering, Center head, Coimbatore, was the industry expert and **Mr. K. Arun Kumar Vikram**, Senior Member of Technical Staff, AMD, Bangalore as alumni member.



## CSE | BOS MEETING



Department of **Computer Science and Engineering** conducted BOS Meeting on 8.04.2024. The meeting focused on formulating the syllabus for students admitted under the regulations of 2023.

### BOARD MEMBERS:

- Dr. T. Sree Sharmila, Associate Professor, Department of Computer Science and Engineering, CEG Campus, Anna University - University Nominee,
- Dr.N. Gopika, Assistant Professor- Selection Grade, CSE, PSG College of Technology, Coimbatore - Academic Expert,
- Dr.P.N. Renjith, Associate Professor, CSE, VIT, Chennai - Academic Expert.
- Mr. Gokul Rajagopal, Tech Lead / Architect, Cognizant Technology Solutions, Coimbatore - Industrial Expert.
- Dr. Santhosh Murthi, Co Founder, Tech Majlis, Muskat - Alumni member.





# R&D | BOOK CHAPTER | MECH

Book Chapter: Recent Intelligent Technologies in Science, Engineering, Humanities & Management

**OPTIMIZING DRIVETRAIN PERFORMANCE AND LONGEVITY: THE CRITICAL ROLE OF PINION BEARING PRELOAD**

C Karthik<sup>1</sup>, Dr. P Ashokavarthanan<sup>1</sup>, Dr. M Vigneshkumar<sup>1</sup>,  
Dr. G Gokilakrishnan<sup>2</sup>, Sreejith S Nair<sup>3</sup>, Dr. R Anandkumar<sup>4</sup>, E Barathraj<sup>1</sup>

<sup>1</sup>Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore  
<sup>2</sup>Department of Mechanical Engineering, Sri Eshwar College of Engineering, Coimbatore  
<sup>3</sup>Department of Mechanical Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi  
<sup>4</sup>Department of Mechanical Engineering, KPR Institute of Engineering and Technology, Coimbatore

**Abstract** - This paper delves into the critical role of pinion bearing preload within an automotive drivetrain. Highlighting its impact on vehicle performance and longevity, the research investigates how preload maintains proper gear meshing in the differential assembly. The potential consequences of improper preload settings are explored, emphasizing the importance of accurate determination and adjustment procedures. Furthermore, the paper examines the influence of preload on vehicle dynamics, specifically steering precision. It then analyzes how drivability is affected by preload variations and how these variations impact key performance metrics. By bridging theoretical principles with real-world applications, the research underscores the importance of meticulous setup procedures for pinion bearing preload. Ultimately, the paper emphasizes how these settings influence vehicle reliability, safety, and long-term performance.

**Keywords:** Pinion preload, pinion bearings.

Dr.P.Ashokavarthanan, HoD, Mechanical Engineering, has published a book chapter titled “Optimizing Drivetrain Performance and Longevity: The Critical Role of Pinion Bearing Preload”, in Recent Intelligent Technologies in Science, Engineering, Humanities & Management.

# R&D | PAPER PUBLICATION | ECE

Dr.M.Ramkumar, Associate Professor, Department of ECE, has published SCI and Scopus indexed Journal titled “An artificial immune system-based algorithm for selfish node detection in Mobile Ad Hoc Networks (MANETs)” in the Journal, Transactions on Emerging Telecommunications Technologies. Dol: <https://doi.org/10.1002/ett.4938>.





## R&D | DST – CEST - GRANT | EEE



The first phase of the DST project work titled '**Decarbonization and Transformation of the Electricity Generation using Solar-Wind System for Economic Enhancement of Palamalailrular Tribes**' was initiated with the site selection at Palamalai Village on 12.04.2024.

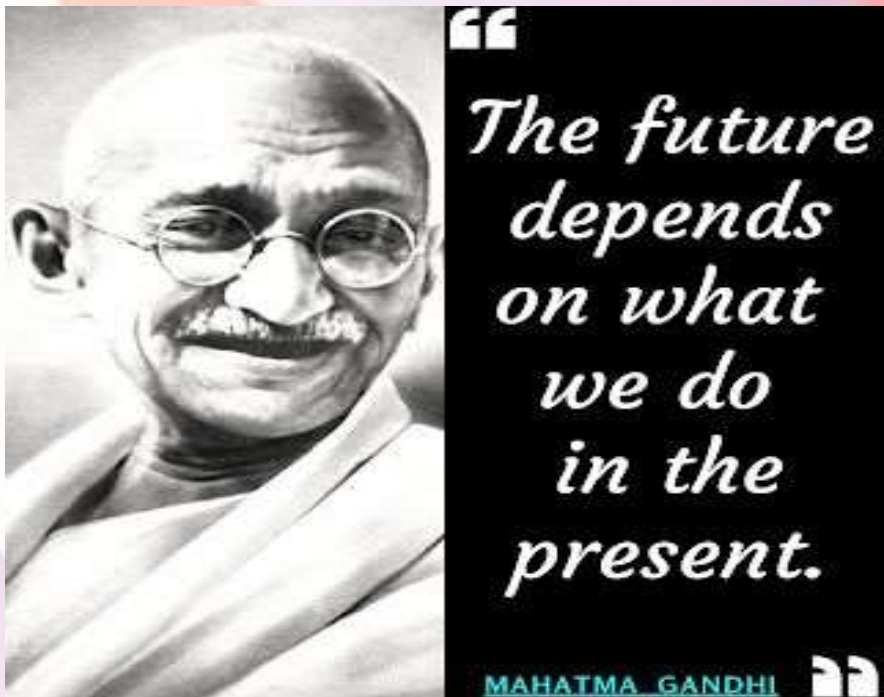
Project Investigators **Dr. P.Vinoth Kumar** and **Dr. G.Radhakrishnan**, **faculty members** from department of **EEE** visited the Perumapathi and Kunjurpathi Village with **Mr. P.SakthiMurugan**, CEO, EMPE Green Energy Private Limited, Chennai. The installation sites for windmills for power generation was determined based on factors such as wind velocity, the number of blades and the types of poles used.

# R&D | BOOK PUBLICATION | CSE



Dr.Ramesh K, Dr.Rasi D faculty members of CSE have together published a book entitled "Advanced IOT Technologies, Trends and Transformative Potential" It has been published in the first edition of Scientific International Publishing House(SIPH), ISBN NO: 978-93-6132-639- 4, Year of Allotment of ISBN:2024.

# LEGENDARY INSIGHTS







# FACULTY PROGRESSION



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## EEE | WOMEN ACHIEVER'S AWARD



**National Federation of Blind Louis Braille Academy** celebrated Women's Day in collaboration with the **Lions Club of Coimbatore** on 13<sup>th</sup> April 2024. During this event, the NFB felicitated the **Women Achiever's with an Award** to acknowledge the women who have made **remarkable contributions** to social service. **Ms. R.Geethamani** , Associate Professor, Department of **EEE and NSS Coordinator**, was honored with this prestigious award for her outstanding contribution for the welfare of the society.

## CSE | BEST PAPER PRESENTATION

**Dr.Rasi D**, Associate Professor, **CSE** has been awarded the **Best Paper Presentation** for the paper titled **“Prediction and Analysis of Lung Cancer using Machine Learning”** at the **International Conference on Future Technology Advancements - 2024 (ICFTA'24)** held on 27<sup>th</sup> March 2024. The remarkable presentation demonstrated exceptional research skills, innovative ideas and insightful analysis, enriching the academic disclosure of the conference.





# FACULTY CERTIFICATIONS



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## AI&DS | GREAT LEARNING



**Mr.S.Senthil Kumar.** Assistant Professor of **AI&DS** has successfully completed a free online course titled **AWS for Beginners** provided by **Great Learning Academy** on **11.04.2024.**

## ECE | NATIONAL LEVEL HACKATHON

**Dr. T. Joby Titus,** Associate Professor, Department of **ECE** have attended One week Faculty Development Programme on “**Research Issues and Challenges in Communication and Signal Processing**” organized by the Department of ECE,SREC in association with IEEE and Centre for Continuing Education (CCE) during 25 to 30 March,2024.

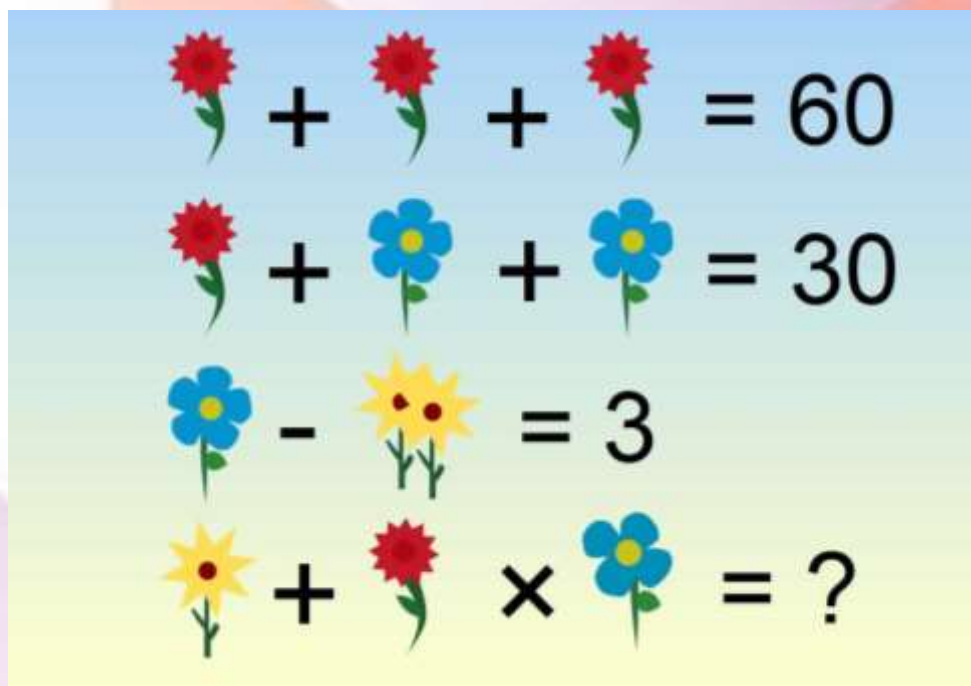


## AI&DS | MICROSOFT CERTIFICATION

Mr.G.S.Pugalendhi, Assistant Professor of **AI&DS** has successfully completed a course titled “**Make Data Available in AZURE Machine Learning and Work with Compute targets**” offered by **Microsoft** on 14.04.2024.



## CAN YOU SOLVE?







# CREATIVE CORNER



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## ECE | UNVEILING MITOCHONDRIAL MYSTERIES TO CONQUER CANCER THERAPY RESISTANCE



Scientists of National University of Singapore (NUS) have discovered that the evasion of apoptosis is a key driver of drug resistance in patients with relapsed acute myeloid leukaemia (AML), a type of aggressive blood cancer. The outcomes are anticipated to aid in pinpointing efficacious medications for addressing relapse in patients. Years of clinical oncology practice have demonstrated that treating cancer patients upon relapse presents a growing challenge. Relapsed patients not only become resistant to the treatment they receive but also to multiple other agents through a phenomenon called acquired multi-drug resistance — a major cause of treatment failures. Beyond genetic mutations, reliable evidence and available models, particularly *in vivo*, seem insufficient to explain the emergence of multi-drug resistance. Assistant Professor Shruti Bhatt and her research team from the Department of Pharmacy and Pharmaceutical Sciences at NUS have uncovered the potential mechanism responsible for multi-drug resistance in relapsed AML patients. They also highlighted the effectiveness of a technique, called dynamic BH3 profiling (DBP), in identifying anti-cancer drugs capable of targeting relapsed leukaemia cells. The technique is able to measure the increase in mitochondrial priming, which signifies a higher potential for programmed cell death called apoptosis. This is a collaboration with Dr Anthony Letai from the Dana-Farber Cancer Institute, United States of America.



## ECE | UNVEILING MITOCHONDRIAL MYSTERIES TO CONQUER CANCER THERAPY RESISTANCE

The research team created *in vivo* models of acquired resistance to various clinically significant anti-cancer drugs utilizing patient-derived xenograft (PDX) models. Following that, they conducted an extensive analysis involving genomics, transcriptomics, and functional studies on drug-resistant AML models. Interestingly, their investigations unveiled a shared mechanism of resistance induced by different drugs: the mitochondria. They observed a decrease in mitochondrial apoptotic priming, a phenomenon associated with reduced susceptibility to cell death across all their models.

This discovery suggests that a decrease in mitochondrial apoptotic priming serves as a fundamental mechanism driving the multi-drug resistance seen in clinical scenarios, irrespective of the therapy type and genetic background of the initial tumor. One way to battle multi-drug resistance is to develop broadly effective predictive biomarkers to identify drugs with new or persistent activity in resistant tumours.

To tackle this challenge, the researchers employed dynamic BH3 profiling (DBP), a method that entails the short-term exposure of leukemia cells derived from therapy-resistant preclinical models to a selection of clinically significant drugs. Mitochondrial apoptotic signalling is then measured to determine drugs capable of overcoming resistance. The researchers implemented DBP across 22 distinct PDX models of AML, and this approach demonstrated remarkable accuracy in predicting the *in vivo* efficacy of drugs with diverse mechanisms of action. DBP's ability to effectively identify exploitable vulnerabilities paves the way for the development of targeted *in vivo* therapeutic strategies.

Professor Bhatt recognized the dedication of her laboratory research team and expressed gratitude for the financial backing received from the National Medical Research Council of Singapore and the American Society of Hematology for this investigation.

BY  
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# Buzz

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# SKCET IN MEDIA

**YOUR VOTE MATTERS**  
19 APRIL 2024

A Campaign to create awareness on voting

**LET YOUR FINGER TAKE PRIDE IN BEING INDIAN**

**YOUR VOTE YOUR RIGHT**

Voting is a fundamental right that empowers citizen to actively participate in democracy

Inauguration by  
**Sri. Kranthi Kumar Pati I.A.S**  
District Collector & Election Officer, Coimbatore

Guest of Honour  
**Smt. S.Malarvizhi**  
Chairperson & Managing Trustee, Sri Krishna Institutions, Coimbatore.

Date: 14.04.2024 | Time: 5.00 PM onwards  
Venue: Race Course, Coimbatore

Presented By  
**SRI KRISHNA INSTITUTIONS COIMBATORE**

In Association with **The Advertising Club Coimbatore**

Media Partner **THE HINDU**

## SKCET IN MEDIA

# TIMES OF INDIA

INDIA'S LARGEST ENGLISH NEWSPAPER

## Industry connect talk series held at SKCET



**S**ri Krishna College of Engineering and Technology (SKCET), Kuniyamuthur, recently organised an industry connect talk series on the theme 'College to Corporate'. Suceendran K M, head, academic alliances group, Tata Consultancy Services, was the chief guest. S Malarvizhi, chairperson and managing trustee, SKCET, presided over the programme



THE TIMES OF INDIA



# SKCET IN MEDIA



## Vote for nation's future: Additional Collector to voters

At 'Your Vote, Your Right', a voter awareness campaign held at Race Course, Sweta Suman reached out to first-time voters

**The Hindu Bureau**  
COIMBATORE

**A**dditional Collector (Development) of Coimbatore District, Sweta Suman, emphasised the importance of civic responsibility for first-time voters at a voter awareness campaign organised by Sri Krishna Institutions jointly with the Advertising Club.

"First-time voters should treat coming April 19 as the day they exercise their duty and not a holiday. Everyone must come out and vote for the future of the nation," Ms. Sweta Suman said, during the event held at Race Course on Sunday.

The initiative, for which *The Hindu* was the media partner, saw participation from college students and a student band from Government Higher Secondary School, Kangeyampalayam.

The event included a



S. Malarvizhi, Chairperson, Sri Krishna Institutions, at a voter awareness signature campaign organised by Sri Krishna College and The Advertising Club in Coimbatore on Sunday. Sweta Suman, Additional Collector, is in the picture. S. SIVA SARAVANAN

voting pledge and a display of placards by students aimed at promoting voter engagement. Additionally, a signature campaign was launched to encourage citizens to commit to voting on April 19, emphasising the importance of demo-

cratic participation.

"Our students are encouraged to exercise their right to vote and be good samaritans of the nation," said S. Malarvizhi, Chairperson, and Manoj, Trustee of Sri Krishna Institutions.

