

SKCET

Buzz



07th - 13th APRIL 2023



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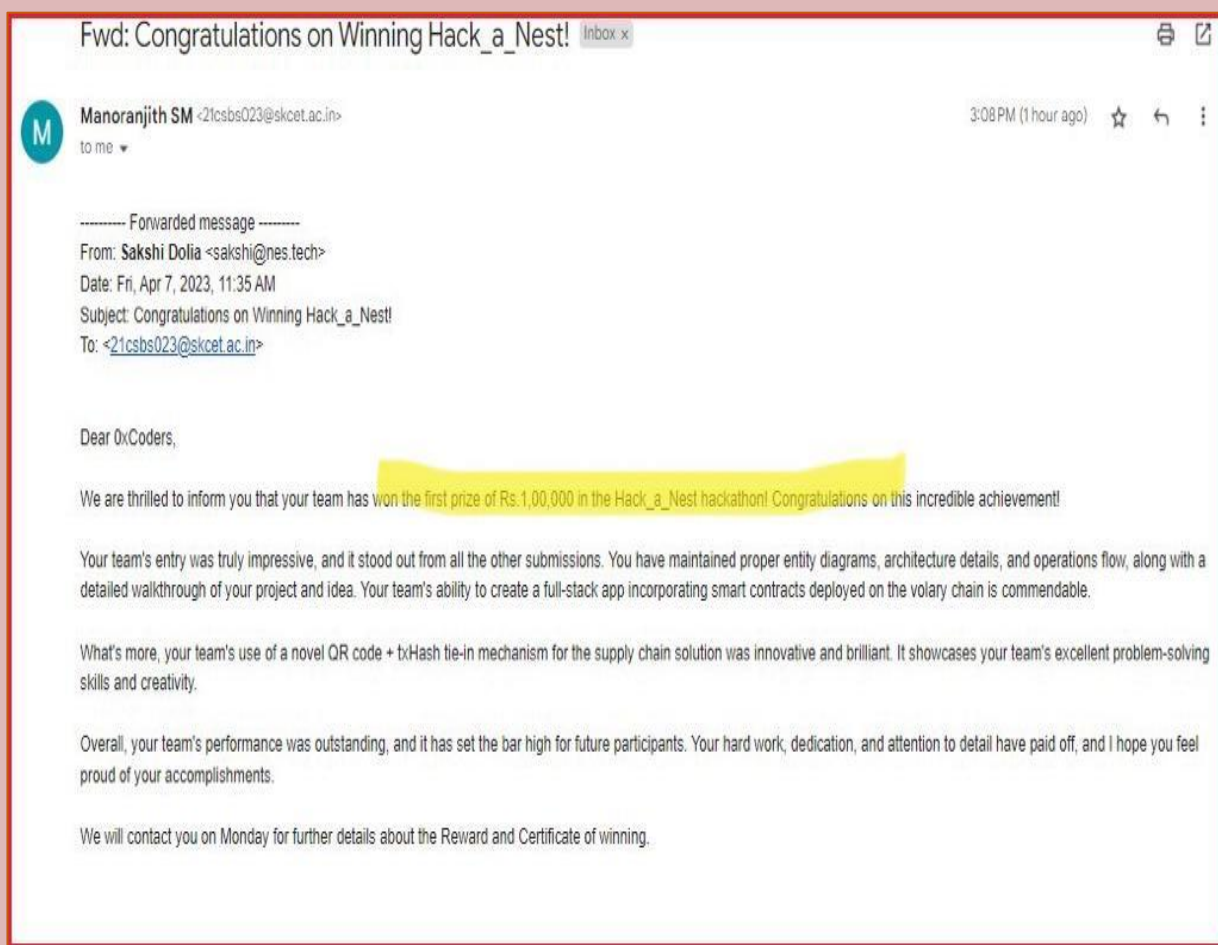
HACKATHON ACCOLADES

S&H | STAR HACK-ERA



Kiruba R, student of **First year B.Tech CSBS** has won **Special Mention Award** with a cash prize of Rs.8000/- in **Star Hack-Era** an Intercollege Women's Hackthon organized by Y's Service Club of GCT YOUTH, at GCT, Coimbatore.

CSBS | HACK_A_NEST HACKATHON



Enthusiastic technocrats' of **CSBS** has won cash reward of **Rs.1 Lakh** in the **Hack_a Nest Hackathon** an exciting event of tech & innovation in Blockchain.

Theme: Blockchain, web 3.0 development using volare blockchain

Team: Oxcoders

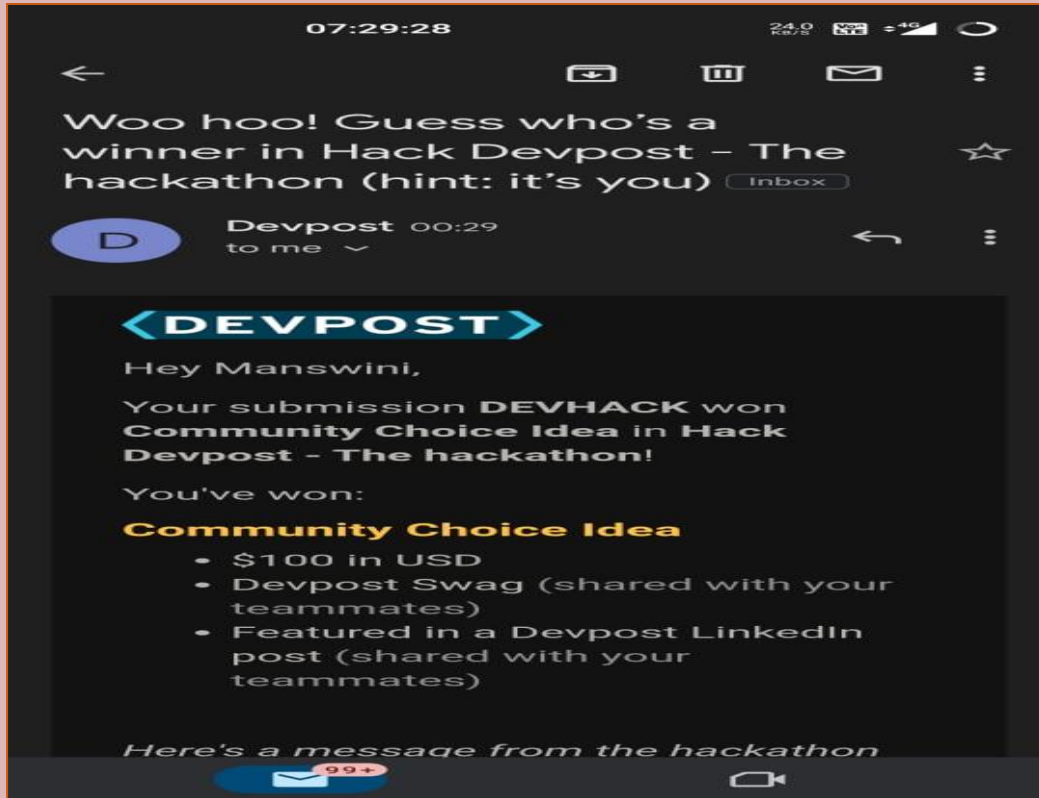
Team Members:

- Manoranjith Shankar - II CSBS
- Cheran Ravi- II MCT

Mentor:

Dr.S Balakrishnan, Professor & Head, CSBS.

EEE | HACK DEVPOST



Third year EEE student team has won '**Community Choice Idea**' in Devpost Hackathon, which is the best Hackathon sites, and provides basic expectations towards hacking platform. Among 1329 participants, the team has won a cash Prize of 100\$ along with Devpost Swag kit and has also been featured in Devpost LinkedIn post, the event was held on 28.03.2023 through online mode.

Theme: Help hackathons get better for everyone.

Project Name: DEVHACK

Team Members:

- P.S. Manswini - III EEE B
- K. Sanjay Bharathi - III EEE B

Faculty Mentor: Ms.R.Geethamani - AP/EEE

Link: <https://devpost.com/software/devhack>



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STUDENT PROGRESSION



CSBS | COGNIZANT PRODIGI FINALE



Student team from the Department of **CSBS** has participated in the **Cognizant PRODIGI Grand Finale** at Cognizant Coimbatore Office on 03.04.2023. SKCET is the only College in Tamilnadu to have 4 teams selected for this Grand Finale. **Mrs Maya Sree Kumar**, Vice President, Human Resources, Cognizant appreciated all our teams and their efforts towards bringing out the Minimum Viable Products for various Problem statements.

1st Runner Up;

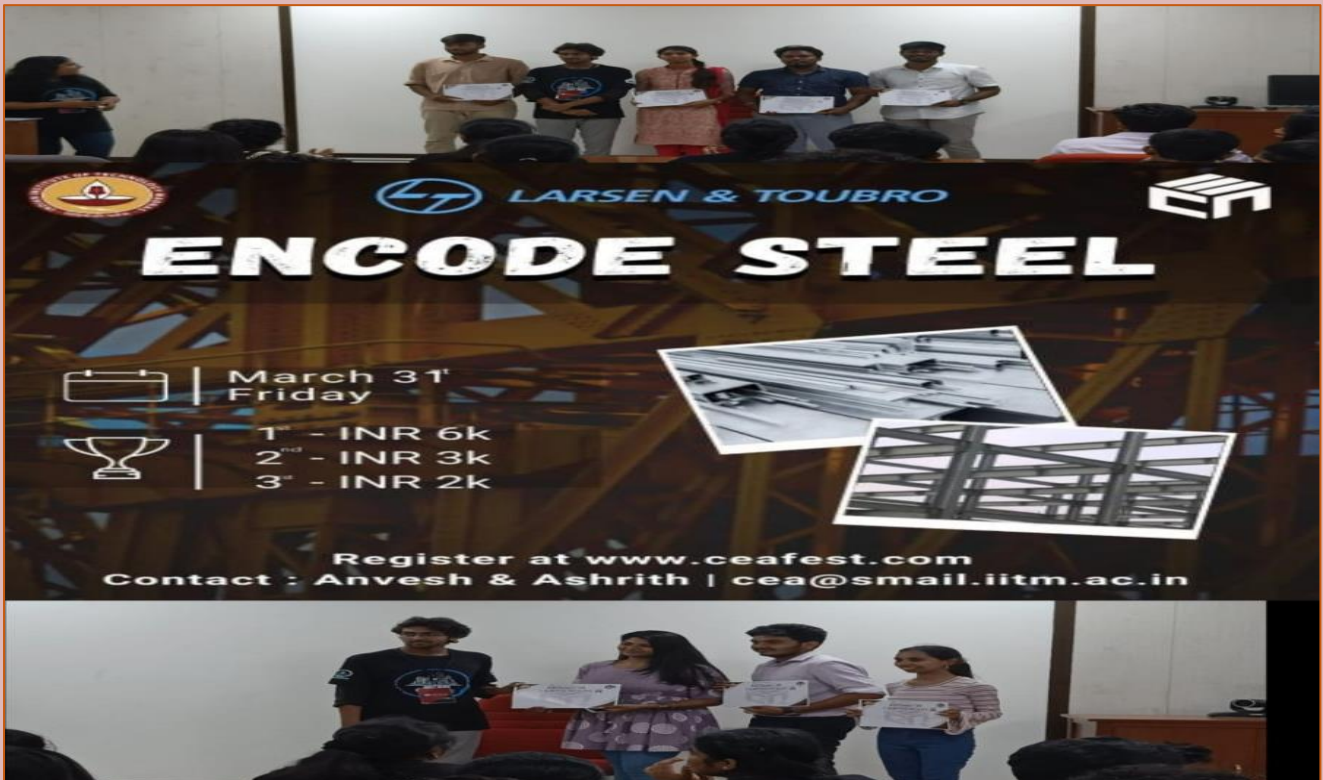
Team Name: A2Z Techvalley

Team Members:

- Vishal Chinnasamy (II CSBS)
- Sasidharan Ramachandran (II CSBS)
- Rohith Kumar B (II CSBS)
- Surya Narayanan R (II CSBS)

Mentor: Dr.S.Balakrishnan, HOD, CSBS

CIVIL | ENCODE STEEL



Two student teams from **Third year Civil Engineering** have won **First** and **Third** prize respectively in the final round of the Encode Steel Event organised by IIT Madras. The teams were asked to Plan, Analyze and Design a G+4 Composite Academic Building Block and in terms of Architecture, Waste Disposal and Fire Safety.

TEAM CIVILEONS - 1st Prize

Team Members: Abinaya R, Ashwanth S, Aravind Babu G S, Saran

Cash Amount : Rs. 6000/-.

Faculty Mentor: Mr. R. Vighnesh, AP/CIVIL

TEAM BUILD TO ENDURE - 3rd Prize

Team Members: Divyadharshini A, Maruthu S A, Sai Krupa S , Srikanan R,

Cash Amount : Rs.2000/-.

Faculty Mentor: Mr. S. C. Boobalan, AP/CIVIL

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EVENTS

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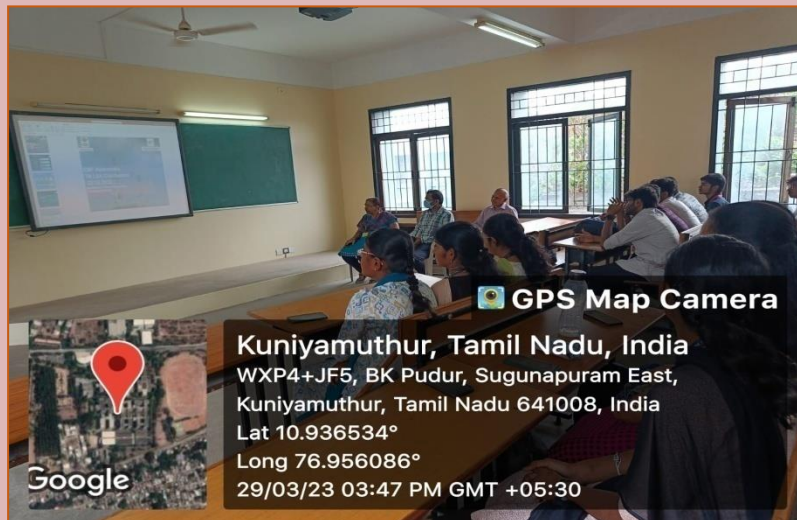


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ECE | AWARENESS PROGRAM ON EMF RADIATION AND INTERFERENCE



Awareness programme on “**Electro Magnetic Field Radiation and Interference**” was organized by the Department of **ECE** for the **Second** year students. **Mrs. Geetha Godwin**, Director (Compliance), Department of Telecommunication (DOT) was the Resource Person.

Session Highlights:

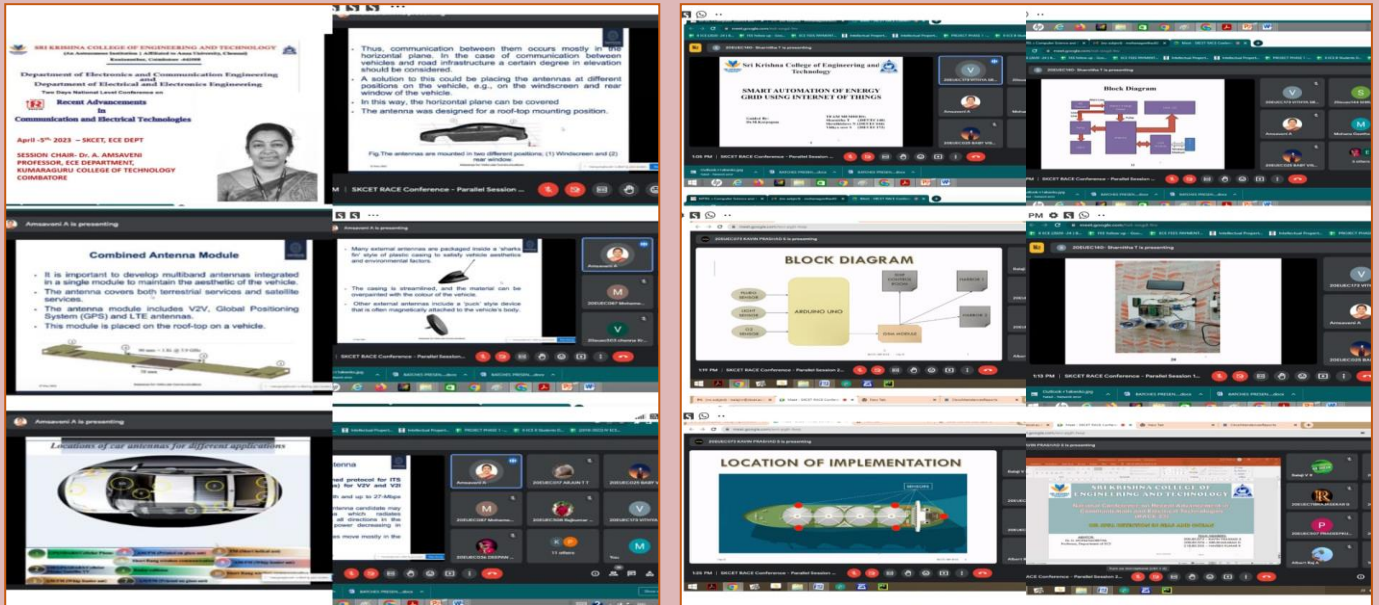
- EMF interference to electronic devices and to living things
- Nonionizing and Ionizing Radiation
- Genetic factors change
- Key Institutions involved in setting standard

S&H | THEATRE CLUB



Theatre Club of **SHA** conducted **AD MAD** for the **First-year** students. The event provided a platform to showcase their creative skills using dramatic techniques and innovative insight. Students participated with confidence and engaged the audience at large.

ECE & EEE | NATIONAL CONFERENCE RACE'23 – DAY-1



Department of **ECE** and **EEE** jointly organized two days National Conference on **Recent Advancements in Communication and Electrical Technologies (RACE '23)**

Session 1:

Keynote Address: Dr.A.Amsaveni, Professor, Dept. of ECE, Kumaraguru College of Technology, Coimbatore.

Session Highlights:

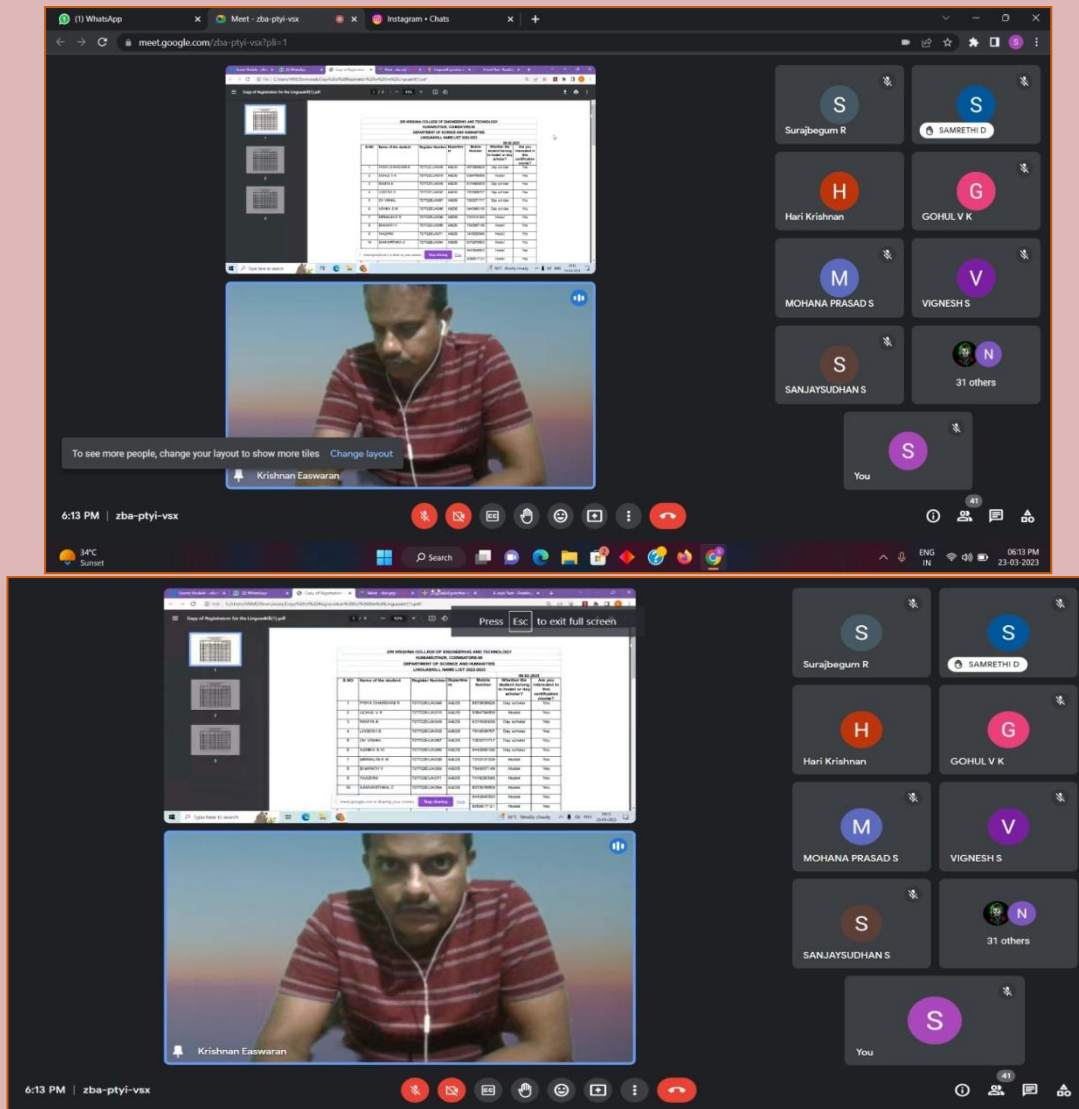
- Antennas for vehicular Communication, Materials used and size of antenna, Vehicular antennas, Commercial car antenna applications, External antennas for Communication, IEEE 802.11p antenna, LTE antenna.

Session 2:

Session Highlights:

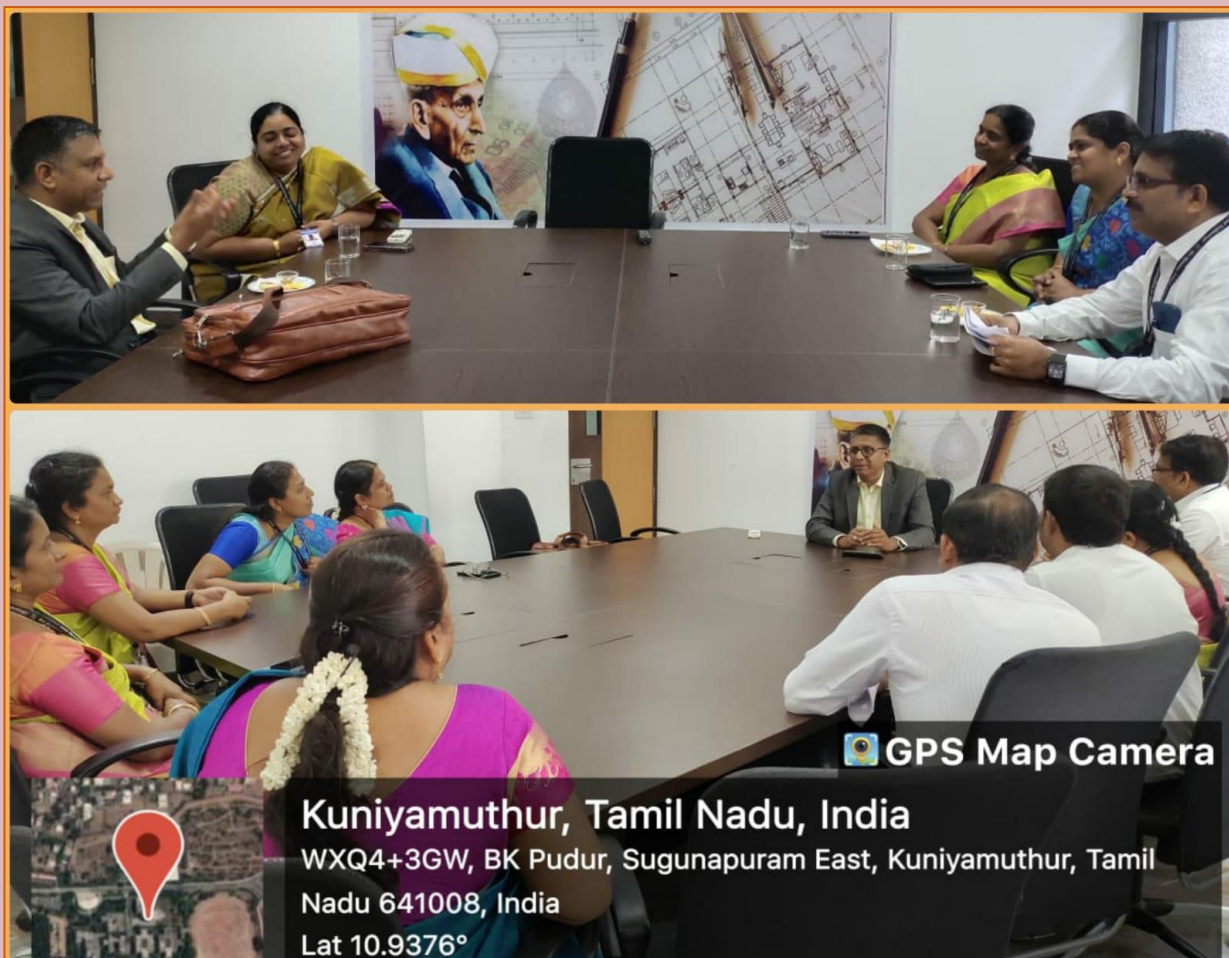
- Reliability Improvement of AC drives, Robotic Actuation, New energy Motor-Drive, Vehicle Motor and Battery Management strategies, Holistic research of Industrial drives and controls.

S&H | LINGUASKILL TRAINING



Department of **Science and Humanities** organized **Linguaskill programme** for the **First** year students through online. The main objective of this programme was to boost communication abilities in business perspective. **Mr.T.E.Krishnan**, Cambridge Trainer, gave an overview of the course and threw light on skills and abilities that are necessary in this modern world.

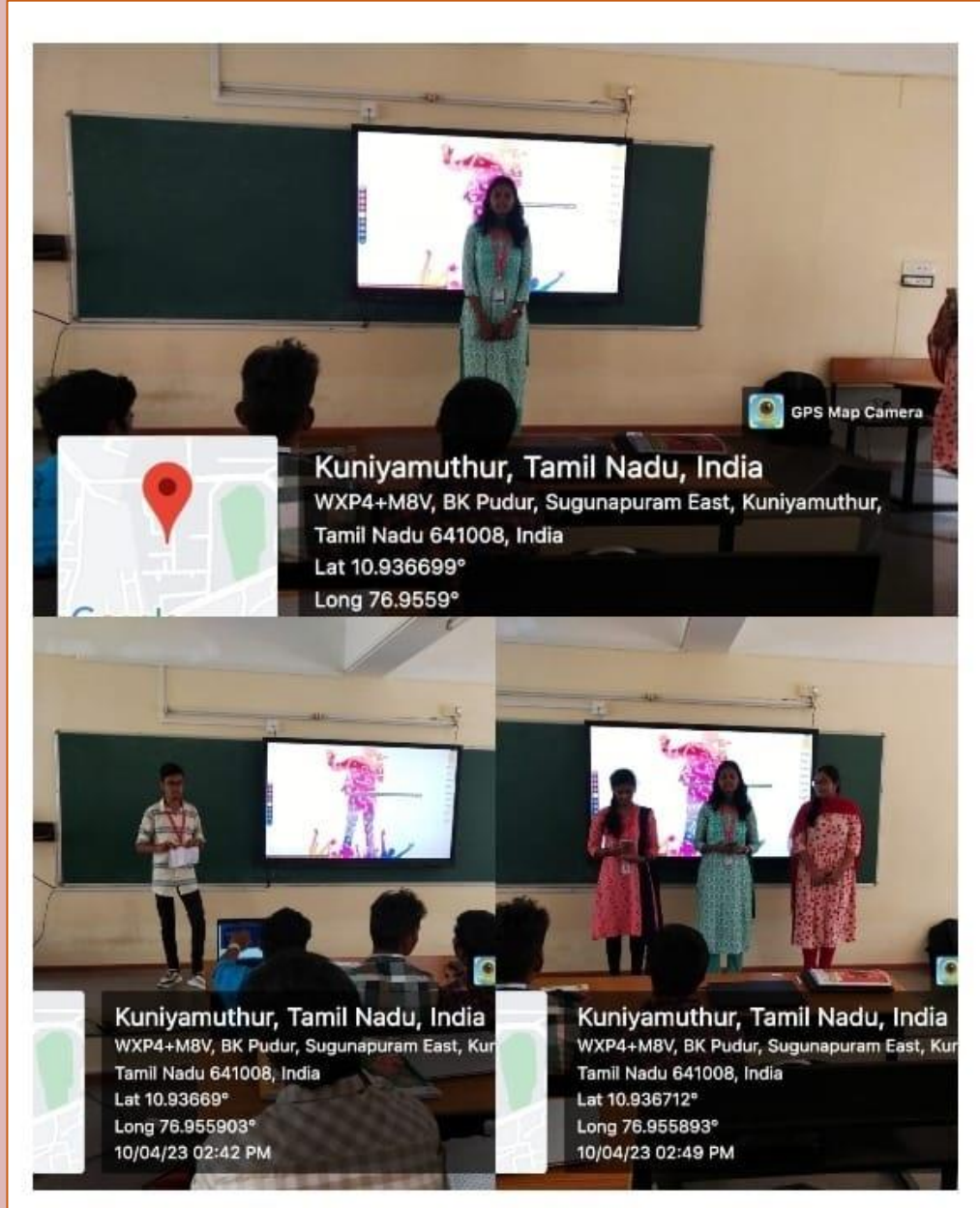
ECE & EEE | FACULTY INTERACTION



Dr.R.Karthikeyan, Senior Director, **Capgemini** engaged in a productive discussion on Innovative Projects in Embedded Systems and Digital Signal Processing with Dean - R&D, Heads and Senior Professors from ECE and EEE departments.

The meeting was deemed fruitful and he showed enthusiasm towards exploring new possibilities in education. He also suggested to form a working group to explore the feasibility of projects in the Streams of DSP and Embedded Systems. The establishment of a working group will take the discussion forward to build a long term partnership between Capgemini and SKCET.

S&H | EXTENDED HOUR ACTIVITY



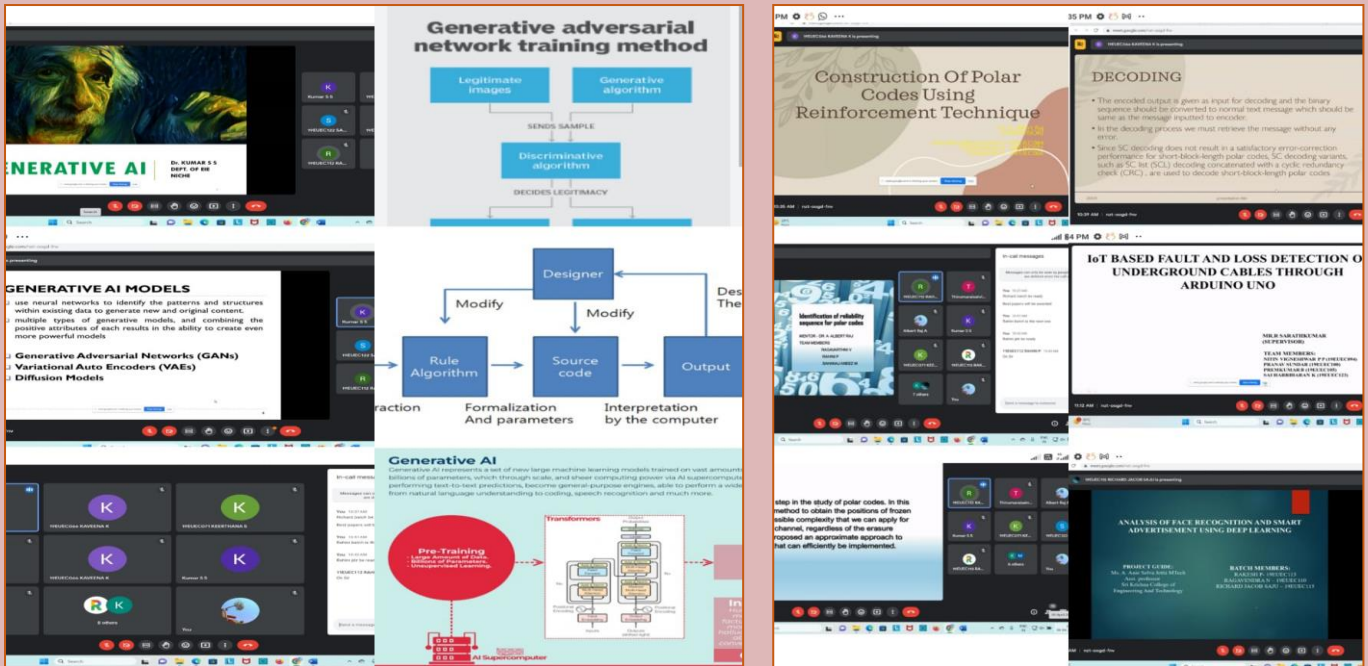
Tamil Club of SHA conducted பரவா என் பரவலை: **Self composition** singing contest for the **First** year students. The event aimed to promote the highest levels of human aspiration and artistic integrity through their own composition. It developed their creative and intuitive understanding of music.

CSBS | FRESHMAN INTERACTION



Dr.S.Balakrishnan, HoD, **CSBS** along with a student team of the Department addressed the **First** year CSBS students. A complete insight on the emergence and take off of Hackathon in the wide arena of National and International Spectrums was the key point discussed. They gave an awareness session on various Government initiative hackathons such as Kavach 2023 and geared up the students to show interest towards participating in hackathon paving path to experience the winning moments.

ECE & EEE | NATIONAL CONFERENCE RACE'23 – DAY-2



Session 1:

Keynote Address: Dr.S.S.Kumar, Professor, Noorul Islam University, Kanyakumari Dist

Session Highlights:

Generative AI, Chat GPT - example of Generative AI, Applications of Generative AI, Potential risks of Generative AI

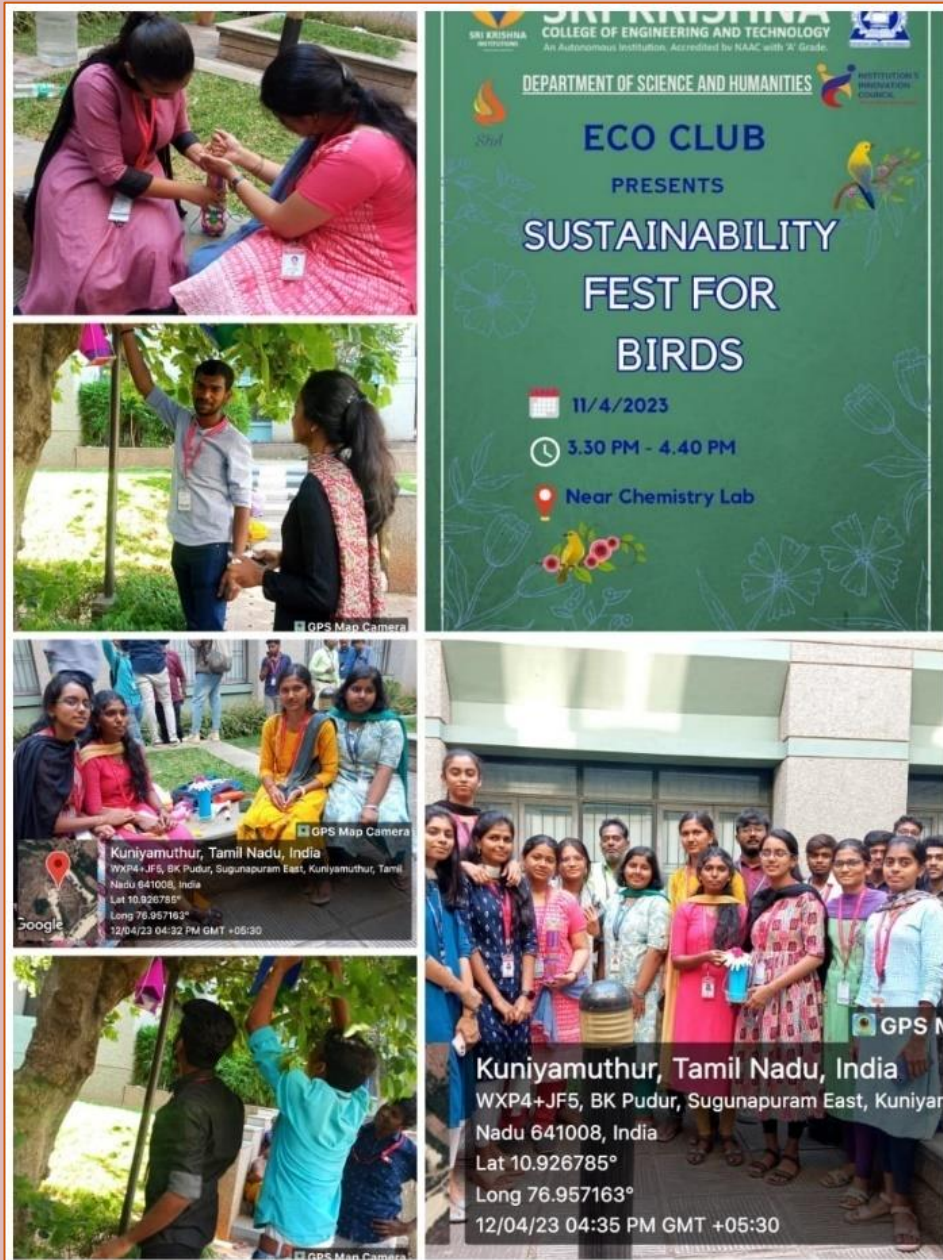
Session 2:

Session Co-chair: Dr.C.Thirumarai Selvi Professor, Dept. of ECE,SKCET

Session Highlights:

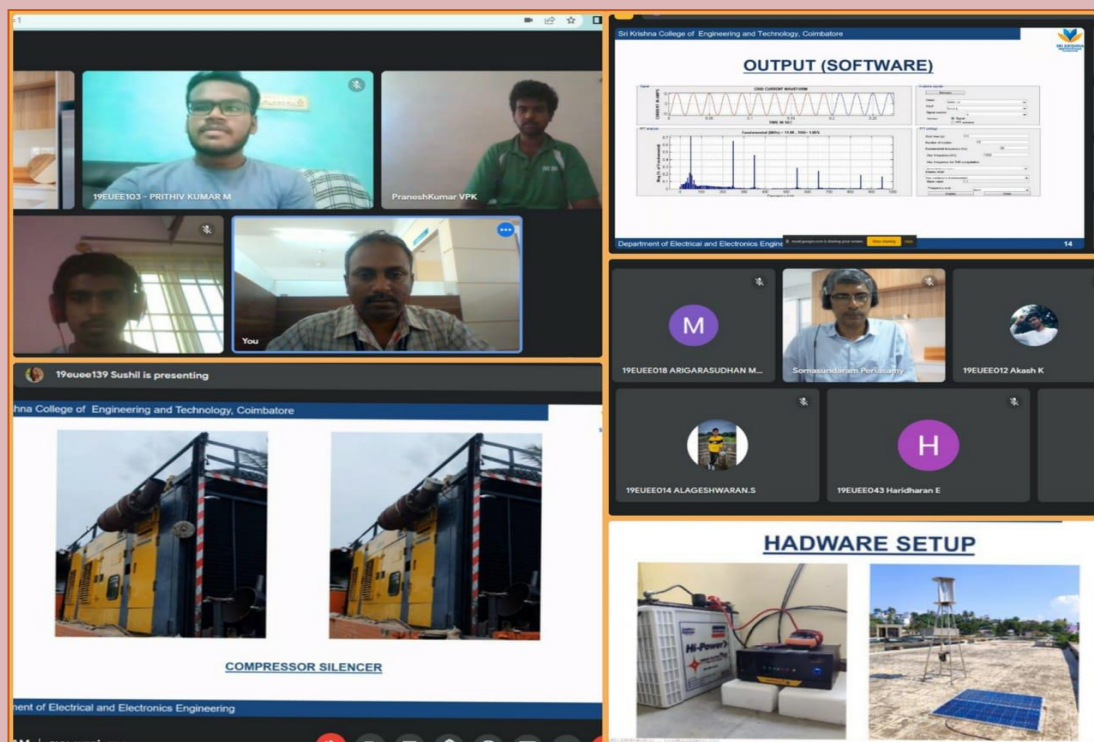
12 Papers were presented in the major areas including VLSI, Embedded systems, Machine Learning, Deep Learning, Biomedical Engineering, Fuzzy logic, Communication Systems

S&H | EXTENDED HOUR ACTIVITY



ECO Club of SHA conducted **Sustainability Fest for Birds** for the **First year** students. The students had an opportunity to learn that act of feeding birds can have an immeasurable impact on our local ecosystem. They actively participated in hanging bird feed box and observed the wonders of nature.

ECE & EEE | NATIONAL CONFERENCE RACE'23 – DAY-2



Department of **EEE** conducted Session **IV** Presentation of RACE '23 on 06.04.2023 in Virtual mode. The presented paper covers Wind and Solar Micro Grid Frequency Control, Hybrid Renewable Energy Charge Controller, Design and Development of Architecture and Safety Features of Borewell Drilling Machine.

Dr. P.Somasundaram, Professor, Department of EEE, Anna University, CEG Campus, Chennai was the session evaluator and delivered a talk on '**Recent Advancements in Smart Grid Technology**'.

Session Highlights:

- Resilient Features of Smart Grid.
- Smart Grid Architecture.
- Self-Healing of the Grid.
- Charging of EVs and Applications of Smart Grid.
- Importance of Restructured Power System and
- Renewable Energy Resources to build a Green Corridors.

The paper titled Smart Domestic Wireless Charger for Electric Vehicles received the Best Paper Award.

SOM | NEW SEM ORIENTATION



Dr. Sophia, Dean R&D, interacted with the **MBA** students 10.04.2023 and the pointers of discussion were:

1. Project preparedness and Zeroth review.
2. Active participation in department clubs activities.
3. Placement preparedness
4. Engaging in more activities and make the learning at ease.

Two new faculty members of the Department were introduced to the students who will be handling Research methods and Human Resource Management.

S&H | EXTENDED HOUR ACTIVITY



Theatre club of SHA conducted an event **Laugh Lounge- Standup Comedy** for the First year students. The event witnessed students who made the audience laugh to tears with their sense of humor. The event paved more opportunities for humor and laughter that helped to improve emotional health, strengthen our relationships, find greater happiness and even add years to our life.

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PLACEMENT AND TRAINING

EEE | TESTIMONIAL BY PLACED STUDENTS

I would like to express my heartfelt gratitude to Sri Krishna Family. I would also like to extend my regards and thanks to the professors and staff members of my department who were an integral part to my success and enabled me to have a positive approach in life. The management provided us an excellent placement training program and numerous campus interview opportunities. "There is only one difference between Dream and Aim. Dream requires effortless sleep and Aim requires sleepless efforts". I can say that SKCET has been the best part of my life and I admire that the support received from management and EEE department. We were well trained for placements and because of the training, I have now been placed in Hitachi Energy, a reputed core company. I thank my EEE department faculty members for their valuable guidelines and for keeping hopes high. I thank all the people I met in my college life who made my life fruitful. Thank you SKCET.

**BOOPATHIRAJA D
EEE (2023 BATCH)
HITACHI ENERGY**



TESTIMONIAL BY PLACED STUDENTS

I am Brundhavani. I'm an alumni of B.E Mechatronics engineering (2022 Batch). It was a great experience being a student of SKCET. It has always been a great place to learn, explore and uplift ourselves. The college has provided us with a platform to build our careers by enhancing our skills and by enriching our knowledge. I got all the support and guidance from Faculties and Placement Officers. The placement cell has provided us with placement training and numerous learning platforms like the Skill Rack portal, Cognizant digital nurture, etc. The events I participated in helped me to grow my confidence level. I would like to especially thank the placement cell for guiding me and providing me with a good platform for my career, and helping me secure my Placement in Accenture solutions and some other companies as well. Thanks to our SKCET management for your support and guidance.



**BRUNDHAVANI G, MCT (2022 Batch),
Accenture**

TESTIMONIAL BY PLACED STUDENTS

I am KOLANTHAIVEL S. My experience in SKCET College is very amazing. There are many opportunities for research, projects, hackathons, higher studies, jobs and internships for the students. The college provides enough knowledge and experience in the field of our choice. I believe that SKCET presents a very conducive environment for an enriching experience and focuses on industrial development as well as graduate education. I would like to specially thank the placement cell for guiding me and providing me a good platform for my career. I am very much grateful to my parents for choosing SKCET. Thanks to our Principal Madam and entire SKCET faculty team.



KOLANTHAIVEL S, CSBS (2023 BATCH),

IBM



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**RESEARCH AND
DEVELOPMENT**

R&D | PAPER PUBLICATION | ECE

ieeexplore.ieee.org/document/10053541

Conferences > 2023 International Conference

Smart Energy Meter and Monitoring System using Internet of Things (IoT)

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

M. Karpagam · Sahana S S · Sivadhari S · Soundharyasi S All Authors

Abstract

In recent times, the energy calibration methods are universally expanding with the goal of effectuating, reliably operating, and managing the utility system. The growing demand for power in the current environment has necessitated the mandatory installation of energy meters, as well as the development of new methods for calibrating meter readings and governing the effective use of energy resources. AMR (Automatic Meter Reading system) is one such modernization. This employs analogue or digital energy meters with the assistance of smart meters. Currently, energy scaling is done by hand, which is a time-consuming process in the world of day-to-day networking demand and also requires skilled labour. The concept of AMR Systems is to overcome complexities in the rapidly growing field of energy management. This article proposes a smart energy meter based on IoT to detect the power theft. The proposed model consists of Arduino UNO, ESP8266, AC713 current sensors, and so on. The AC713 senses current usage with the help of the ESP32, which is then passed to the IoT platform. Though AMR is a very effective method, it costs the proxy of existing energy meters by SEM (Smart energy meters), which is highly inefficient. As a result, the proposed method focuses on detecting the power theft caused by public tampering. The proposed model is programmed by using a BLYNK software and simulated in PROTEUS software. The proposed system is then validated by using the simulated results.

Published in: 2023 International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)

Date of Conference: 05-07 January 2023 **DOI:** 10.1109/IDCIoT56793.2023.10053541

Dr.M.Karpagam, Professor, ECE along with the Third year students from the Department of ECE have presented and published their paper in the 2023 International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT). It is a Scopus Indexed IEEE Conference.

R&D | ARTICLE PUBLICATION | CIVIL

Dr.P.Saravanakumar, Associate Professor, Department of **Civil Engineering,** has published a research article titled **“Carbon black based self-sensing cement composite for structural health monitoring – A review on strength and conductive characteristics”** in Materials Today: Proceedings. It is indexed in Scopus.

Materials Today: Proceedings xxx (xxxx) xxx

Contents lists available at ScienceDirect

Materials Today: Proceedings

ELSEVIER journal homepage: www.elsevier.com/locate/matpr

Carbon black based self-sensing cement composite for structural health monitoring – A review on strength and conductive characteristics

A. Dinesh^a, P. Saravanakumar^{b,*}, B. Rahul Prasad^a, S. Kilbert Raj^a

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^bSri Krishna College of Engineering and Technology, Coimbatore 641008, Tamilnadu, India

ARTICLE INFO

Article history:
Available online xxxxx

Keywords:
Carbon black
Self-sensing
Cement composite
Structural health monitoring
Strength
Conductivity

ABSTRACT

Even though concrete buildings have high strength and durability, they are susceptible to damage from hazards, aging, etc. In concrete structures, carbon-based conductive compounds with the potential to increase the electrical conductivity of concrete are preferred. However, it was extremely difficult to handle the high cost that prevented the widespread use of conductive materials in concrete. Carbon black, a low-cost carbon-based conductive substance supports the development of self-sensing cement composite, which has significant applications in Structural Health Monitoring (SHM). This review concentrates on the alteration of compressive strength, split tensile strength, flexural strength and conductive characteristics of concrete properties using carbon black. Utilizing a scanning electron microscope (SEM), the volume and shape of porosities inside the carbon-black embedded cement composite were analyzed. The review revealed that self-sensing cement composite based on carbon black has high durability, cheap cost, and sensitivity. The analysis found that the carbon content, size, and conductivity of the carbon black utilized significantly impact the piezoresistivity of cement composites. Nevertheless, with an increase in carbon black concentration and under conventional curing, cement composites' compressive strength and flexural strength are significantly diminished. The conductivity of the cement composite is directly proportional to the concentration of carbon black; however, the piezoresistivity of the cement composite is not considerably attained beyond the percolation threshold. The review concludes that, despite the inclusion of carbon black with acceptable strength and good sensing characteristics, the carbon-black embedded self-sensing cementitious composite is an appropriate material for structural health monitoring of various concrete infrastructures under various environmental conditions. Copyright © 2024 Elsevier Ltd. All rights reserved. Selection and peer-review under responsibility of the scientific committee of the International Conference on Advances in Construction Materials and Structures.

R&D| PATENT PUBLICATION| MCT

Dr.T.A.Selvan, Dr.M.Bhuvaneshwari and Mr.S.Madhan Kumar, faculty members of Mechatronics Engineering have successfully published a patent entitled “Solar Powered Autonomous Seed Sowing Machine”.

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202341010538 A
(19) INDIA	(43) Publication Date : 17/03/2023
(22) Date of filing of Application : 16/02/2023	
(54) Title of the invention : SOLAR-POWERED AUTONOMOUS SEED SOWING MACHINE	
(51) International classification (86) International Application No. Filing Date (87) International Publication No. (83) Point of Addition to Application Number Filing Date (82) Divisional to Application Number Filing Date	<p>(71) Name of Applicant : 1Dr. Veera Reddy Aduru Address of Applicant: Assistant Professor, Department of Electrical and Electronics Engineering, Veluppalam Ramakrishna Siddhartha Engineering College, Kanne, Vijayawada, Andhra Pradesh - 520007, Vijayawada</p> <p>(72) Name of Inventor : 1Dr. Veera Reddy Aduru Address of Applicant: Assistant Professor, Department of Electrical and Electronics Engineering, Veluppalam Ramakrishna Siddhartha Engineering College, Kanne, Vijayawada, Andhra Pradesh - 520007, Vijayawada</p> <p>2Dr. S. Rajesh Name of Applicant : NA Address of Applicant : NA</p> <p>3Dr. Venkateswara Rao Rathina Address of Applicant: Assistant Professor, Department of Electrical and Electronics Engineering, Veluppalam Ramakrishna Siddhartha Engineering College, Kanne, Vijayawada, Andhra Pradesh - 520007, Vijayawada</p> <p>3Dr. T. A. Selvan Address of Applicant: Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kamsamthala, Chittoor - 641008, Kamsamthala</p> <p>4Mr. D. Anshay Prabu Address of Applicant: Assistant professor, Loyola - (ICAM) college of engineering and technology (I.C.E.T), Nungambakkam, Chennai, Tamil Nadu - 600034, Chennai</p> <p>5Mr. S. Rajesh Address of Applicant: Assistant Professor, Department of Mechanical Engineering, R.M.E. Engineering College, Kavayipatti - 602206, Chennai</p> <p>6Mr. R. Balasubramanian Address of Applicant: Assistant Professor, Department of Automobile Engineering, Bharathi Amman Institute of Technology, Subbanayagam, Erode - 638441, Subbanayagam</p> <p>7Mr. M. Bhuvaneshwari Address of Applicant: Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kamsamthala, Chittoor - 641008, Kamsamthala</p> <p>8Mr. S. Madhan Kumar Address of Applicant: Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kamsamthala, Chittoor - 641008, Kamsamthala</p>
(57) Abstract	<p>According to Agriculture Industry Market Reports “The global seed sowing machine market is estimated to be worth roughly US\$ 526.32 million by 2021, up from US\$ 546.56 million in 2020, increasing at a CAGR of 5.12% from 2021 to 2027”. Manufacturers are seeking an creating new products with minimal maintenance and cover installation procedures to increase the sowing process and the percentage of area sown as seed sowing machines become more popular. The continually expanding agriculture industry throughout the world, as well as the advancement of farm technology, are likely to boost demand for seed sowing machines and drive worldwide market expansion over the forecast period. However, expensive capital investment in contemporary agricultural equipment and preference for manual sowing due to a lack of education are some of the factors that may limit demand for seed drill machines and restrain worldwide market expansion to some extent over the forecast period. Therefore, the proposed invention is focused on the development of solar powered autonomous seed sowing machine.</p> <p>No. of Pages : 8 No. of Claims : 3</p>

R&D| JOURNAL PUBLICATION | EEE

Dr.K.C.Ramya, Professor and Head, EEE Department has published a paper entitled “Sustainable Artificial Intelligence-Based Twitter Sentiment Analysis on COVID-19 Pandemic” in Sustainability Journal Impact Factor: 3.889 <https://doi.org/10.3390/su15086404>. It is indexed in SCI & Scopus journal.



Article Sustainable Artificial Intelligence-Based Twitter Sentiment Analysis on COVID-19 Pandemic

Thavavel Vaidyanathan¹, Sharath Kumar Jagannathan², Mohammed Altaf Ahmed³, K. C. Ramya⁴, Gyanendra Prasad Joshi⁵, Soojong Lee⁶ and Gangseong Lee⁶*

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- 2 Faculty 3, Omani School of Business, Saint Peter's University, 2641 John F. Kennedy Boulevard, Jersey City, NJ 07306, USA
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- 6 Injeon College, Kwangju University, 20 Kwangju-ro, Nongseong, Seoul 01889, Republic of Korea

Abstract: The COVID-19 outbreak is a disastrous event that has elevated many psychological problems such as lack of employment and depression given abrupt social changes. Simultaneously, psychologists and social scientists have drawn considerable attention towards understanding how people express their sentiments and emotions during the pandemic. With the rise in COVID-19 cases with strict lockdowns, people expressed their opinions publicly on social networking platforms. This provides a deeper knowledge of human psychology at the time of disastrous events. By applying user-produced content on social networking platforms such as Twitter, the sentiments and views of people are analyzed to assist in introducing awareness campaigns and health intervention policies. The modern evolution of artificial intelligence (AI) and natural language processing (NLP) mechanisms has revealed remarkable performance in sentiment analysis (SA). This study develops a new Marine Predator Optimization with Natural Language Processing for Twitter Sentiment Analysis (MPO-NLP-TSA) for the COVID-19 Pandemic. The presented MPO-NLP-TSA model is focused on the recognition of sentiments that exist in the Twitter data during the COVID-19 pandemic. The presented MPO-NLP-TSA technique undergoes data preprocessing to convert the data into a useful format. Furthermore, the BERT model is used to derive word vectors. To detect and classify sentiments, a bidirectional recurrent neural network (BiRNN) model is utilized. Finally, the MPO algorithm is exploited for optimal hyperparameter tuning process, and it assists in enhancing the overall classification performance. The experimental validation of the MPO-NLP-TSA approach can be tested by utilizing the COVID-19 tweets dataset from the Kaggle repository. A wide comparative study reported a better outcome of the MPO-NLP-TSA method over current approaches.

Keywords: sustainability; sentiment analysis; low resource language; natural language processing; deep learning; pattern recognition; COVID-19 pandemic

1. Introduction

Automated knowledge extraction has a two-dimensional technique such as autonomous extraction of shallow knowledge from massive document collections, and, then, cumulative statistics of mechanically collected superficial understanding suggest more semantics [1]. Furthermore, traditional information extraction, semantic annotation, linguistic annotation in natural language processing (NLP), and ontology-based data extraction might help in automatic knowledge extraction and NLP for the lexicography of lower resource languages [2,3]. The involvement of people in an online social network (OSN) surged at the



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R&D| BOOK CHAPTER PUBLICATION | EEE

Materials and Technologies for a Green Environment, 2023, 1-31

1

CHAPTER 1

Renewable Energy Generation Using a Novel Geothermal-Solar Hybrid Power Plant Using RORC

K. C. Ramya¹, S. Sheeba Ranil², S. Sivaranjani¹ and R. Vinoth Kumar³

¹ Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, India

³ Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, India

Abstract: A recent survey of energy consumption indicates that there has been exponential growth in the need for renewable energy and also for curbing the growth of fossil fuel reserves. To meet this future need, renewable energy sources are being explored. In this paper, we have proposed a Recuperative Organic Rankine Cycle that operates in conjunction with air-cooled condensers. Solar energy is said to be an energy source that varies periodically, unlike geothermal energy which is available round the clock, to generate electricity continuously. Hence it is a highly recommended source to meet the growing demands for electricity globally. A major contribution to geothermal power development is the progress in Organic Rankine Cycles. These plants are best known for their ability to curb harmful gas emissions, especially that of non-condensable gases. There is a significant growth in geothermal power owing to the ORC (Organic Rankine Cycle) power units that are implemented. In this methodology, the working fluid of ORC is made to go through an evaporator where a hot turbine is used to heat the liquid. In this process, the temperature of the preheated liquid is further increased with the aid of solar energy. This heat generated thus is further converted into electricity when the turbine unit causes the expansion of the fluid. Finally, an air-cooled condenser is used to condense the final exhaust of the turbine. Combining the two powerful forms of renewable energy (solar and geothermal), it is possible to generate power in such a way that the need for power begins to drop from its peak that it has achieved already. The simulated results define the decline in energy consumption of condensers based on the minimum heat transfer area of the condenser as well as the minimum power consumption of the fans.

Keywords: Duet curve, Geothermal-solar power generation, Hybrid power plant, Renewable energy, Recuperative Organic Rankine Cycle.

¹ Corresponding author K. C. Ramya: Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, India, E-mail: ramya@skcet.ac.in

Santhoshan Harikrishnan (Ed.)
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Dr.K.C.Ramya, Professor and Head, Dr.S.Sivaranjani Professor EEE Department have together published a book chapter entitled “Renewable Energy Generation Using a Novel Geothermal-Solar Hybrid Power Plant Using RORC” published by Bentham Science Publishers.

R&D | PH.D. VIVA VOCE PRESENTATION | ECE

Dr.V.Nandalal, Professor, ECE has successfully conducted the Ph.D Viva Voce Examination meeting for his part time research scholar **Mr.N.Sathishkumar**, in the presence of Examiners **Dr.T.Shanmuganantham**, Professor and Head, Department of Electronics Engineering, Pondicherry University, Puducherry- 605 014 & **Dr.G.Umamaheswari**, Associate Professor, Department of Electronics and Communication Engineering, PSG College of Technology, Coimbatore on 10.04.2023 in the ECE Conference Hall.



R&D | PATENT PUBLICATION | EEE

(12) PATENT APPLICATION PUBLICATION	(21) Application No:202341022748 A
(19) INDIA	
(22) Date of filing of Application :28/03/2023	(43) Publication Date : 07/04/2023
(54) Title of the invention : READING AND SPEAKING ASSESSMENT TOOL	
(51) International classification :A61B 07/0000, G06Q 10/0600, G09B 07/0000, G09B 19/0600, G10L 25/0000	(71)Name of Applicant : Dr.T.Keerthika Address of Applicant :Associate Professor, Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore
(86) International Application No Filing Date	Dr.Krupasree K, Dr.Kavya P, Dr.Naveen S, Dr.Mohammed Ali Raihan M, Dr.Logesh S
(87) International Publication No	Name of Applicant : NA
(61) Patent of Addition to Application Number Filing Date	Address of Applicant : NA
(62) Divisional to Application Number Filing Date	(72)Name of Inventor : Dr.T.Keerthika Address of Applicant :Associate Professor, Department of Information Technology Sri Krishna College of Engineering and Technology,Coimbatore
(57) Abstract: Reading and Speaking skills are important for the students along with their writing skills for any given language, there are inadequate tools available in the market to help the student to assess her reading and speaking skills in a language. The need of the hour is a tool that can assess the following: grammar, accuracy, speed, comprehension, emotional sentiment, and accent. The tool should also store the strengths, as well as show the progression in real time.	Dr.Krupasree K, Dr.Kavya P Address of Applicant :Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore
No. of Pages : 7 No. of Claims : 3	Dr.Naveen S Address of Applicant :Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore
	Dr.Mohammed Ali Raihan M Address of Applicant :Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore
	Dr.Logesh S Address of Applicant :Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore

Dr.T.Keerthika, Associate Professor, **EEE** along with a team of students of IT Department **Krupasree K**, **KavyaP**, **NaveenS**, **Mohammed Ali Raihan M**, **Logesh S** has published a patent on **“Reading and Speaking Assessment Tool”**.

R&D | PH.D. VIVA VOCE PRESENTATION | MECH

Mr. Samuel Gems Prim, Assistant Professor, Hindustan College of Engineering and Technology, scholar of **Dr. P. AshokaVarthanan**, HoD, Mechanical Engineering has successfully defended this Ph.D thesis entitled **‘Tribological evaluation of vegetable oil based bio lubricant blends enhanced with Al₂O₃ nano particles’** on 11.04.2023.



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CSBS | CONOCITHON _ JURY



Dr.S.Balakrishnan HoD, **CSBS** has received the Certificate of Appreciation for being a Jury member for **CONOCITHON 2.0** , a 3-Day **Hackathon** organized by IEEE Student Branch Chapter of St. Joseph's College of Engineering in collaboration with IEEE Madras Section Young Professionals on 12th March 2023.

CSE | YOUNG ACHIEVER AWARD

Mr.M.Vengateshwaran, Assistant Professor, Department of **CSE** have received **Young Achiever Award** by **Dr.M.Jayaprakasan**, CEO- Naan Mudhalvan, Government of Tamilnadu.





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FACULTY CERTIFICATION

M.Tech CSE | FDP ON ML USING PYTHON



Ms.B.Manohari, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has participated in 5 Day Faculty Development Program on “**Machine Learning using Python**” held from **13th to 17th March 2023** organized by Hindusthan College of Engineering and Technology.

MCT | NPTEL CERTIFICATION

Dr.D.Pritima, Professor, **MCT** has successfully completed and has been awarded with Elite certificate for the 4 weeks online NPTEL course entitled “**Inspection and Quality Control in Manufacturing**”.



MECH | NPTEL CERTIFICATION

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
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for successfully completing the course

Inspection and Quality Control in Manufacturing

with a consolidated score of **81** %

Online Assignments	22.5/25	Proctored Exam	58.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: **719**

Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Feb 2023
(4 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee

Indian Institute of Technology Roorkee

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NPTEL Online Certification
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for successfully completing the course

Inspection and Quality Control in Manufacturing

with a consolidated score of **72** %

Online Assignments	22.5/25	Proctored Exam	49.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: **719**

Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Feb 2023
(4 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee

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Elite

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Inspection and Quality Control in Manufacturing

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Online Assignments	22.5/25	Proctored Exam	43.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: **719**

Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Feb 2023
(4 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee

Indian Institute of Technology Roorkee

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Roll No: NPTEL23ME47544375783 To validate the certificate  No. of credits recommended: 1 or 2

Dr. R. Arunbharathi, Dr. K P Yuvaraj and Mr. N. Babu, Assistant Professors, **Mechanical Engineering** have successfully completed a course on 'Inspection and quality control in Manufacturing' from IIT, Roorkey through NPTEL. Dr. R Arunbharathi is one of the top 5% scorers of the exams.

ECE | NPTEL CERTIFICATION



Dr.D.Mohana Geetha, Ms.D.V.Soundari, Ms.N.Nanthini, Mr.J.R.Dinesh Kumar, Mr.S.P.Karthi, Mr.C.Visvesvaran and Ms.B.Anish Fathima faculty members of ECE Department have successfully completed “Teaching And Learning in Engineering” NPTEL course conducted during Jan to Feb 2023.

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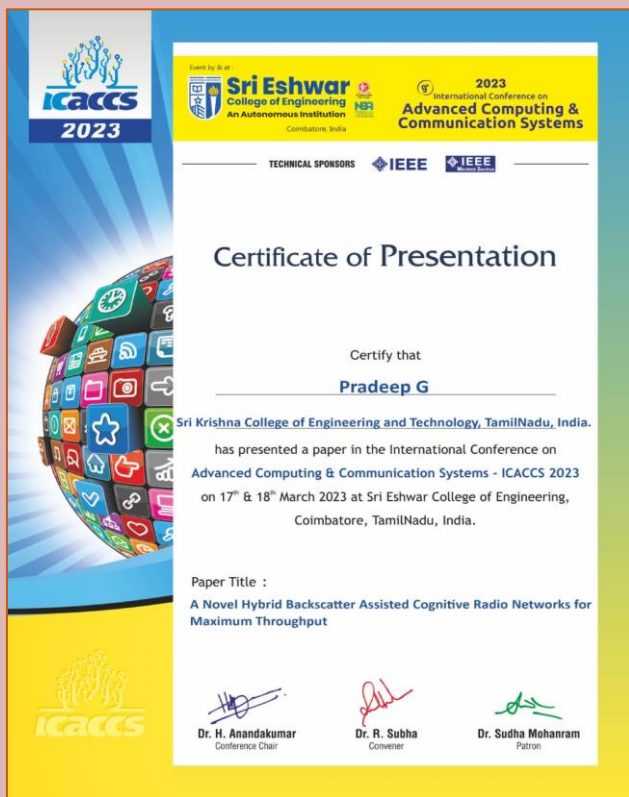
CONFERENCE PRESENTATION

EEE | CONFERENCE PRESENTATION



Mr.N.Loganathan, Assistant Professor, EEE Department along with D.Boopathiraja, R.S.Bharathwaraji, A.Abiram, K.Arun, N.Abhishek Priyan students of Final year EEE have presented a research paper entitled “Cloud based electric bike speed and safety control system” in the International Conference on Advanced Computing & Communication Systems-ICACCS 2023 at Sri Eshwar College of Engineering, Coimbatore.

M.Tech CSE | CONFERENCE PRESENTATION



Mr.G.Pradeep, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has presented a paper "**A Novel Hybrid Backscatter Assisted Cognitive Radio Networks for Maximum Throughput**" in the International Conference on Advanced Computing and Communication Systems – **ICACCS 2023** held on 17th and 18th March 2023 organized by Sri Eswar College of Engineering, Coimbatore, Tamilnadu.

EEE | CONFERENCE PRESENTATION

Dr.P.Vinothkumar, Assistant Professor, **EEE** Department has presented a research paper entitled "**Convolutional Neural Network for Battery System Monitoring and SOC Estimation for EV Applications**" in the 1st International Conference on Recent Trends and Innovations in Sustainable Electrical Energy Systems (RISEE 2023) organised by the Department of Electrical and Electronics Engineering at National Institute of Technology, Puducherry.



EEE | CONFERENCE PRESENTATION



Mr.N.Loganathan, Assistant Professor, EEE Department along with H.Jaganadan, S.Haynes Immuanel, K.S.Gowtham Kumar, S.Ajay Students of Final year EEE have presented a research paper entitled “Dynamic Wireless Charging and Cloud Based Metering of Electrical Vehicles” in the International Conference on Advanced Computing & Communication Systems-ICACCS 2023 at Sri Eshwar College of Engineering, Coimbatore.

CSBS | CONFERENCE PRESENTATION



Mr.M.Manicka Raja, Assistant Professor, **CSBS** has presented the paper titled **“Solar Radiation Prediction Using Machine Learning Model”** in the 2nd International Conference on sustainable computing and Data Communication systems (ICSCDS 2023) organized by Shree Venkateshwara Hi-Tech Engineering College from 23-25, March 2023 .

R&D | PAPER PUBLICATION | S&H

Ms.Revathy P, Assistant Professor, Department of **Science and Humanities** has presented a paper entitled **“Fuzzy Coloring and Total Fuzzy Coloring of a Strong Intuitionistic Fuzzy Petersen Graph”** in the Two-day International Conference on Recent Development and Techniques in Pure and Applied Mathematics (ICRDTPAM-2023) organized by School of Mathematics, **Alagappa University**, Karaikudi on 23rd& 24th March, 2023. She has been certified with the **Best Paper Award - Silver Award (2nd prize)** for the paper presentation.



EEE | CONFERENCE PRESENTATION

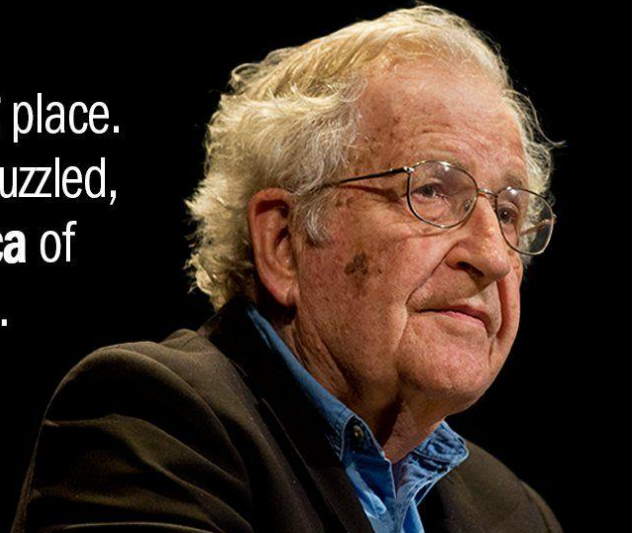
Mr.R.Kavin, Assistant Professor, EEE Department along with **G.Jebastin Daniel, K.Gokul Sanjay, M.Akash, P.Abishek**, Students of Final year EEE have presented research paper entitled **“Fault Detection and Monitoring of BLDC Motor using ANN”** in the First IEEE International Conference on Networking and Communications 2023(ICNWC 2023) Organized by Department of Networking and Communications, School of Computing, SRM Institute of Science and Technology, Chennai.



LEGENDRY INSIGHTS

The world is a very **puzzling** place.
If you're **not willing** to be puzzled,
you just become a **replica** of
someone else's mind.

— Noam Chomsky



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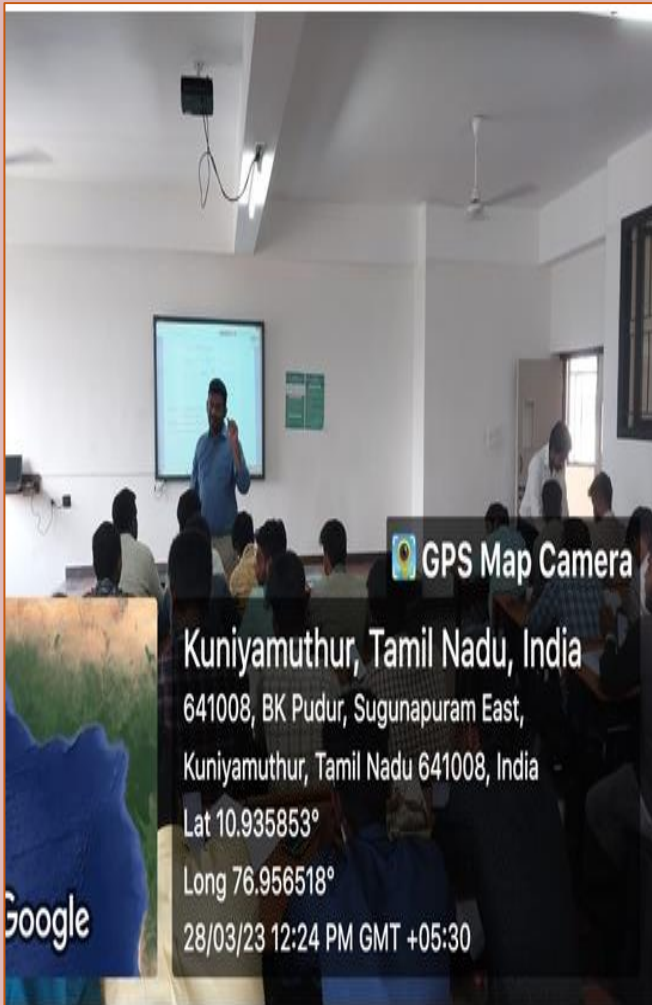


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SKCET | ALUMNI INTERACTION



Mr. Jamal Musthafa, notable alumnus of the department delivered a lecture on the title “**An Awareness on Sector skill development Courses under PMKVY**” on 28-03-2023. The session Takeaways were;

- ❖ Courses offered by sector skill council
- ❖ Registration process
- ❖ Stipend details
- ❖ Assessment Pattern
- ❖ Certification from government
- ❖ Placement assistance after completion of course

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- ரோபாட்டிக்ஸ் & ஆட்டோமேஷன்
- OPEN AI, குவாண்டம் கம்ப்யூட்டிங், கிளவுட் கம்ப்யூட்டிங் IOT கிளவுட் கம்ப்யூட்டிங்
- மெட்டாவார்ஸ், CS, IT டேட்டா சயின்ஸ், பிக் டேட்டா, மிஷின் லேர்னிங்
- கலை, அறிவியல் மாணவர்கள் வளர்த்துக்கொள்ள வேண்டிய திறன்கள்
- மருத்துவம் மற்றும் துணை மருத்துவப் படிப்புகளும் வாய்ப்புகளும்
- LAW, CA, படிப்பதால் என்னென்ன வாய்ப்புகள்
- தேசிய அளவிலான நுழைவுத்தேர்வுகள் மற்றும் பிரத்யேக கல்வி நிறுவனங்கள்

**20க்கும் மேற்பட்ட நியுனர்கள் மற்றும்
கல்வியாளர்களின் நேரடி ஆலோசனை**

இணைந்து வழங்குபவர்கள்

வையப்பிரகாஷ் காந்தி
கல்வி ஆலோசகர்
வரும் காலங்களில்
ஆஸ்ப்போகும் துறைகள்

நெடுஞ்செழியன்
கல்வி ஆலோசகர்
உதவித் தொலைகள் மற்றும்
நுழைவுத் தேர்வுகள்

செந்தில் குமார்
இயக்குனர்
டிசைன் தொழில்நுட்பம்

சுரேஷ் குமார்
நிறுவுனர், PEPUL MACAPP STUDIO
Technology & Innovation

அஸ்வினின்
கல்வி ஆலோசகர்
கிரியர் கவுன்சிலிங்

90+
முன்னணி
கல்வி நிறுவன
ஸ்டால்கள்

கருத்தரங்கில்
கேட்கப்படும் கேள்விக்கே
பதில் அளிப்பவர்கள்
ஸ்டோப், டேப்ஸ்டைட்,
மற்றும் **வாட்ச்** பரிசாக
வேலை வாம்ப்பு

இணைந்து வழங்கும்

காலை 10:00 - 6:30 மணி **லட்சுமி சுந்தரம் ஹால், தல்லாகுளம், மதுரை.**

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- B.E. Mechatronics Engineering
- B.E. Electronics and Communication Engineering
- B.E. Electrical and Electronics Engineering
- B.E. Computer Science and Engineering
- B.E. Computer Science and Design
- B.E. Computer Science and Engineering (Cyber Security)
- B.E. Computer Science and Engineering
- B.Tech. Information Technology
- B.Tech. Artificial Intelligence and Data Science
- B.Tech. Computer Science and Business Systems (Powered by TCS)

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- M.E. Engineering Design

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Master of Business Administration

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- B.Sc. Catering Science and Hotel Management
- B.Sc. Computer Science
- B.Sc. Information Technology
- B.Sc. Computer Technology
- B.Sc. Computer Science and Applications
- B.Sc. Computer Science with Cognitive Systems
- MOU with TCS
- B.Sc. Data Science
- B.Sc. Artificial Intelligence & Machine Learning
- B.Sc. Biotechnology
- B.Sc. Microbiology
- B.Sc. Software Systems
- B.Sc. Information Systems and Management
- B.Sc. Electronics and Communication Systems

B.C.A. Bachelor of Computer Applications

B.B.A. Business Administration

- Business Administration with Computer Applications
- Logistics (MOU with Skill Sector)

- B.Com. Commerce
- B.Com. Computer Applications
- B.Com. Information Technology
- B.Com. Professional Accounting (MOU with ICA)

- B.Com. Accounting & Finance (MOU with ACCA)
- B.Com. Business Process Systems - MOU with TCS
- B.Com. E-Commerce
- B.Com. Banking & Insurance (MOU with IBF)
- B.Com. Business Analytics
- B.Com. Corporate Secretaryship

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- M.Sc. Electronics and Communication Systems
- M.Sc. Mathematics
- M.Sc. Biotechnology
- M.Sc. Bioinformatics
- M.Sc. Computer Science
- M.Sc. Information Technology
- M.Sc. Computer Technology
- M.Sc. Software Systems (5 Years Integrated)

M.Com.
M.Com. Commerce
M.Com. International Business

M.S.W. - Master of Social Work

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- Ph.D. English
- Ph.D. Mathematics
- Ph.D. Commerce
- Ph.D. Electronics
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- Ph.D. Biotechnology
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- B.E. Electronics and Communication Engineering
- B.E. Electrical and Electronics Engineering
- B.E. Computer Science and Engineering
- B.Tech. Information Technology
- B.Tech. Artificial Intelligence & Data Science
- B.E. Computer Science and Engineering (Artificial Intelligence & Machine Learning)
- B.E. Computer Science and Engineering (Cyber Security)
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- B.Sc. Computer Science
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- B.Sc. Computer Technology

B.C.A. Bachelor of Computer Applications

- B.Sc. Artificial Intelligence & Machine Learning
- B.Sc. Data Science

- B.Com. Commerce
- B.Com. Computer Applications
- B.Com. Professional Accounting
- B.Com. Information Technology
- B.Com. Accounting and Finance
- B.Com. Business Process Services MOU by TCS
- B.Com. Finance

- B.Com. Banking and Insurance
- B.Com. Corporate Secretaryship

B.B.A.

- B.B.A. Business Administration
- B.B.A. Business Administration with Computer Applications

PG COURSES

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- Ph.D. Commerce
- Ph.D. Computer Science
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Number of Companies	Highest Offer	Average CTC	Placement Offers
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122+ Super Dream Offers
122+ Pretest Offers
512+ IT Service Offers

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Number of Companies	Highest Offer	Average CTC	Placement Offers
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1354+ IT Service Offers
2254+ IT Enabled Service Offers

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- Mechanical Engineering
- Instrumentation and Control Engineering

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- Computer Engineering
- Electronics and Communications Engineering
- Electrical and Electronics Engineering

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