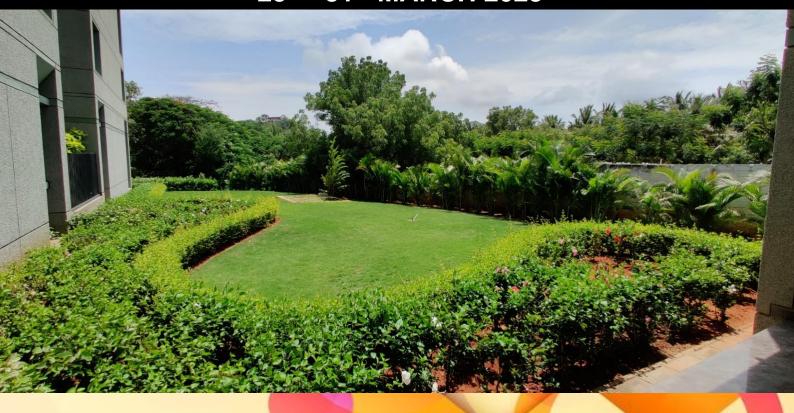


# 25<sup>th</sup> - 31<sup>st</sup> MARCH 2023



#### **Editor-in-Chief**

Dr.J.Janet Principal

#### **Co-Editor**

Dr.S.Venkata Lakshmi - AI & DS

#### **Editorial Team**

Mrs.S.Mary Fabiola - S&H, Ms.N.Pooranam - CSE,

Mr.M.Diwakaran - IT,

Mr.G.S.Pugalendhi - AI & DS



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Interdepartmental cultural extravaganza DHWANI 2023 was witnessed on 30.03.2023 with great vibe at Sri Krishna Hall. It was a platform the students to exhibit their talents and skills with great zeal. The celebration was presided over by our Principal Madam Dr. J. Janet.















#### Mr & Ms DHWANI - An ethnic fashion ramp walk of the SKCETs most passionate fashion enthusiasts.

Energetic and stylish young men and women with their ethnic apparels stole the show with new collections of unique attires that never goes out of vogue. Our beloved Principal Madam **Dr.J.Janet** along with the Judge of the show **Ms.Helinbegh Chelsia**, happily witnessed the grand event.

Fashion weaves our identity!!









DHWANI 2023 the multicultural mosaic was filled with soulful tunes and passionate performances and left the audience mesmerized.





The Chief Guest of the day Mr.Sathya Prakash, playback singer and Carnatic Vocalist was felicitated by our beloved Principal Mam Dr.J.Janet













Principal Madam along with the Chief Guest felicitated all the prize winners who exhibited their talents and wished them success.









Live performance of music by Mr.Sathya Prakash, Playback Singer and Carnatic Vocalist created an immersive experience for the SKCET audience allowing them to connect with the music and performer in a unique and memorable way.

































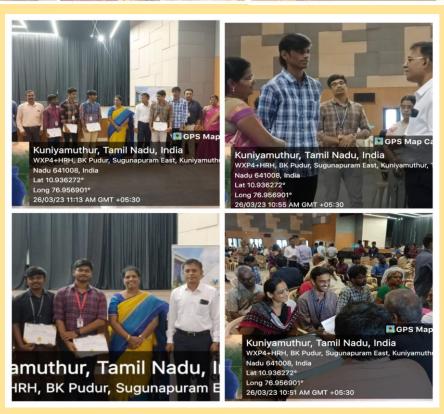




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The Academic Review Meeting was conducted for the **Second** and **Third** year students to facilitate an interaction between the faculty and the parents and to assess the performance of their wards. Parents enthusiastically participated and interacted with the tutors and class handling faculty members to know their ward's performance and also provided valuable feedbacks for further improvement which would aid in enhancing the learning experience of the students. Student achievers were appreciated and merit certificates were awarded by our beloved Principal Madam DrJ.Janet. It served as an encouragement for the students to achieve more.





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## MCT | MAGNIMA STATUP ARENA



Second year student team from MCT and CSE has won the First Place in **UZHUVISAI** with a cash prize worth of Rs.15,000/- in MagnimaStartup Arena Pragyan'23 conducted at National Institute of Technology, Trichy.

They were selected as one of the Top 6 finalist out of 236 teams in the final round. The team has also connected with Mr.Rithwin Siva, Founder and CEO of 'Building Vittae' for taking the startup to the next level and have been specially invited for an Entrepreneur-Cell Conference by NIT Trichy.

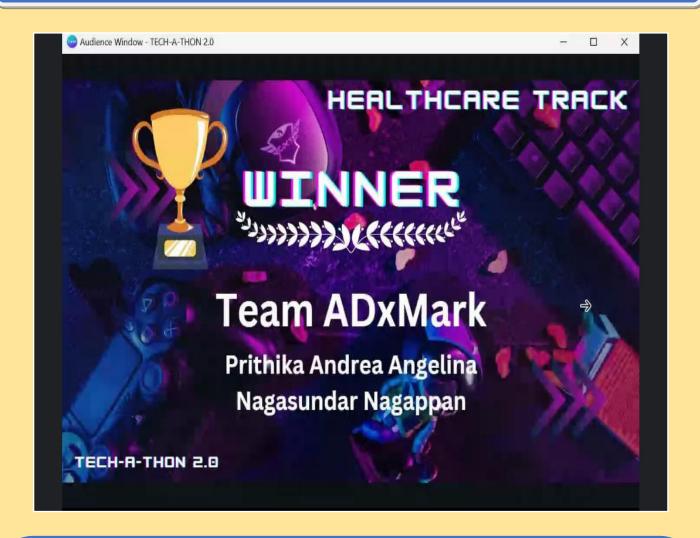
#### **Team Members:**

- Harini Sri G II MCT A
- Amritbalaji K II MCT A
- Chandru P II MCT A
- Prathiba S II CSE B

: Dr.D.Pritima, Prof / MCT & Dr.G.Veerappan, ASP / MCT



### CSE | TECH-a-THON 2.0



#### SKCET- CSE TRIUMPHANT FEAT AT TECH-A-THON 2.0

Second year student team from the Department of Computer Science and Engineering contested against 250+ participants in the TECH-a-THON 2.0 organized under UDAAN, the annual fest of Institutions Innovation Council (IIC) at Shaheed Rajguru College of Applied Sciences for Women, University of Delhi. The team secured First Prize under the category Healthcare and was awarded 740 dollars + Kind. The team has also received an honorable mention amidst working professionals.

#### Team members:

- 1. Prithika Andrea Angelina F (II CSE)
- 2. Nagasundar N (II CSE)

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## CSBS | TAMIL NADU POLICE HACKATHON



Student team from the Department of CSBS repeatedly proclaims Innovation by enjoying the winning moment for the second time in the Tamil Nadu Police Hackathon 2023. The team has captured the Runner-Up position with the cash prize of Rs.50,000/- in the TN Police Hackathon 2023 organised by Crime Wing, Chennai in association with St. Joseph's College of Engineering, OMR, Chennai. It was a 24 hour hackathon for the entire student crew of Tamil Nadu held on 28th & 29th of March 2023.

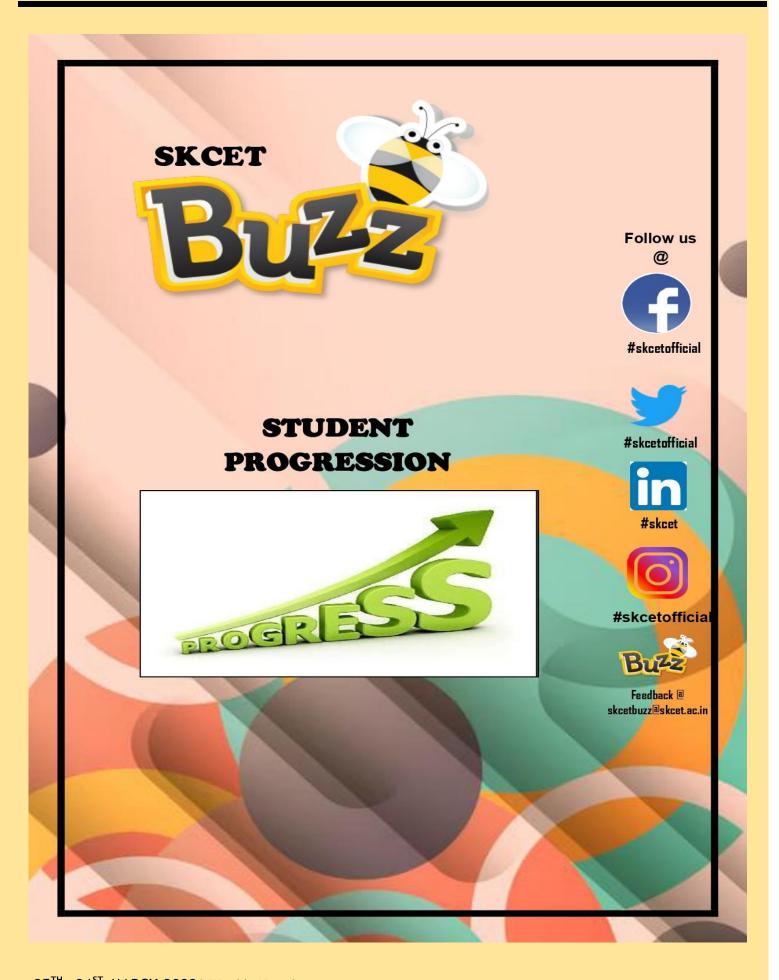
#### **Team Members:**

- ★ Vishal Chinnasamy
- **★**Sasidharan Ramachandran
- **★**Rohith Kumar

#### **Mentor:**

Dr. S. Balakrishnan, Prof and Head, CSBS





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## CSBS | IEEE YESIST 12



Students of the **Department of Computer Science and Business** Systems have given a tough compete in the IEEE YESIST 12 (Youth Endeavors for Social Innovation using Sustainable Technology) (SS12) with over 120+ Abstracts and 400+ Participants across 25+ Colleges which was organized by iExplore Foundation, IEEE KPRIET Student Branch and KPRIET held on 25th March 2023 at KPR Institute of Engineering and Technology

They have tried diligently and climbed up to Top 20 teams for the finale that will held at Egypt in the month of September and was highly appreciated by Dr. M. Ramalatha (Director, iExplore Foundation) and Jury Panels.

#### **Team members:**

- 1. Vishal Chinnasamy C (ll CSBS)
- 2. Sasidharan R (ll CSBS)
- 3. Christina Mercy Mathew (II CSBS)
- 4. Rathi Raguraman (II M.Tech CSE)



#### **CSBS | STUDENTS ACHIEVEMENT**





SKCET-CSBS repeatedly proclaims Innovation by enjoying the winning moment for the second time in the Tamil Nadu Police Hackathon 2023.

The II year Students team from the **Department of Computer** Science and Business Systems has captured the Runner-Up position with the cash prize of Rs.50,000/- in the TN Police Hackathon 2023 organised by CRIME WING, CHENNAI in association with St. Joseph's College of Engineering, OMR, Chennai. It was a 24 hour hackathon for the entire Student crew of Tamil Nadu held on 28th & 29th of March 2023. Our Principal Madam **Dr.J.Janet** appreciated the winners.

#### **Team Members:**

- ★ Vishal Chinnasamy
- **★**Sasidharan Ramachandran
- **★**Rohith Kumar

#### Mentor:

Dr. S. Balakrishnan, Prof and Head, CSBS





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## MCT | GAME DEVELOPMENT



**G.Kishor**, student of **Third** year MCT has actively participated in workshop "Game the on Development" during KRIYA 2023 held on March 24<sup>th</sup> to 26<sup>th</sup> 2023.

## MCT | AUTOMATED LAND TRILLER **MACHINE**





R.Kavin Kumar and P R. Abhijith, students of Final year MCT have presented a paper entitled "Automated Land Triller Machine" in the International Conference on Advances in Mechanical and Civil Engineering held at M.Kumarasamy College of Engineering, Karur on 17<sup>th</sup> March 2023.



### MCT | PAPER PRESENTATION







K. PremKumar, A. ShakkilAhamed and L. Sudarsan students of Final year MCT have presented a paper entitled "Automated Fabric Analysis System" using Machine Vision &IoT" in the International Conference on Advances in Mechanical and Civil Engineering held at M.Kumarasamy College of Engineering, Karur on 17<sup>th</sup> March 2023.



## MCT | PAPER PRESENTATION







K.V. Aravind, K.S. Bharath Kumar and A. Kalaiarasan, students of Final year MCT have presented a paper entitled "Solar Panel Cleaning Robot" in the International Conference on Advances in Mechanical and Civil Engineering held at M.Kumarasamy College of Engineering, Karur on 17th March 2023.



## M.TECH CSE | TECHNICAL FEST - ADVIK





 Forwarded message – From: Advik CUH <advik.cuh@gmail.com> Date: Fri, 17 Mar 2023, 4:46 pm Subject: Collect your hard copy of certificates Dear Winner Collect your certificate of excellence from Room no. 229,S. N. Bose Hostel, Central University of Haryana OR by contacting me - wa.me/919459890730 Regards advik log .png Aditya Kumar Core Member Advik 2023 Central University of Haryana +919459890730 | advish.cuh@gmail.com http://advikfest.com 

N Praveen, M Ragavi and Mohammed Rizad M, students of Second year M.Tech CSE has won Third prize in Hackathon at Technical fest - ADVIK conducted by the Central University of Haryana on 27<sup>th</sup> February, 2023.



## M.TECH CSE | KRIYA - 2023



K KavinKishore, S Surya and Priyadharshini, students of Second year M.Tech CSE have won 1st Prize in Try and Triumph part of Kriya -2023 under the event category - Kriyative at PSG College of Technology, Coimbatore on 25<sup>th</sup> March 2023.



## IT | CELESTRA 2K23



Anbarasu A N, student of Second year IT has participated in the Level **National** Symposium CELESTRA 2K23 conducted by the of IT, Department Coimbatore Institute of Technology(CIT) on 17<sup>th</sup> March 2023.

### **CSBS | IEEE CERTIFICATION**

Dhasagreevan.C student Second year CSBS, has attended the IEEE MAS HUB COGRESS 2023 - Coimbatore organized by IEEE Madras Section on 18th March 2023.





### MCT | WORKSHOP



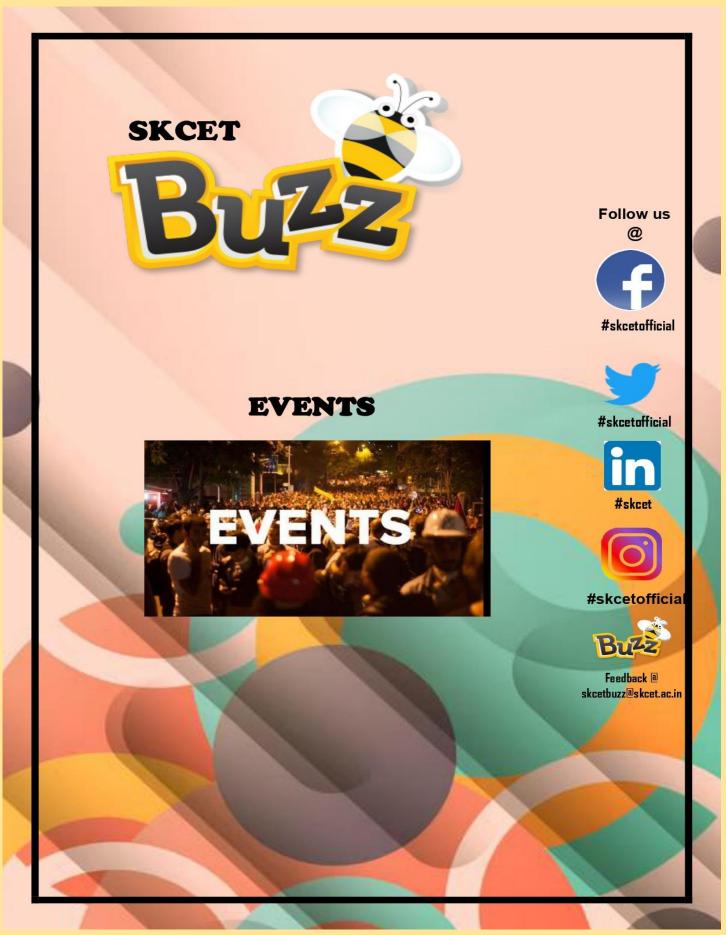






Mr. Vijaya Sarathi, Mr. A.G. Sri Vishnu, Ms. S. U. Selva Lakshmi, Ms. S. M. Yazhini, Students of II year MCT have actively participated in the workshop on "Current Trends in Energy Storage and Electric Vehicle Technologies" organized by the Department of Energy and Environment (DEE), NIT Trichy from Feb 6<sup>th</sup> to 10<sup>th</sup>, 2023.





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# SOM | OUT BOND TRAINING PROGRAM









Students of First year MBA have participated in the Out Bond Training Program conducted at Niligiri Bioshphere, Anakatti. Students had a complete field exposure on the aspects of Leadership and Team Building.



## EEE | PROJECT BASED LEARNING



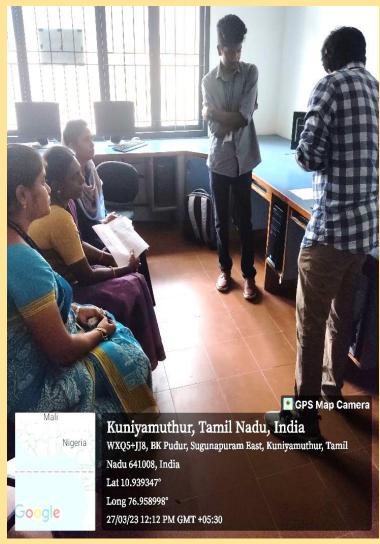
To exhort creative problem solving, drive innovation and build brand awareness, the Department of EEE conducted Second Project Review for the Final year EEE students. Proposed work and Hardware Demonstration done by the students and the same was reviewed by the faculty in-charge.



### **CSE | PROJECT REVIEW**







Final year Project Review was conducted for the Department of Computer Science and Engineering students on 27<sup>th</sup> March 2023. The panel members reviewed the progress of the student projects and provided their valuable comments and recommendations to enhance the project.



## CSBS, AI & DS & M.Tech CSE | RALLY



#### "STOP WITH THE LOOKS - BASED SEXUAL HARASSEMENT"

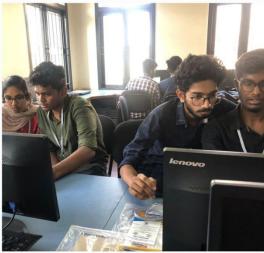
This rally is an event where women came together to raise awareness and promote gender equality, women's rights, and social justice. It aimed to inspire, motivate, and empower women to take an active role in society and fight for their rights. The objective of this rally is to create a safe space where women can come together to discuss their challenges, share their experiences, and network with other women.

A Women is the full circle,. Within her is the Power to create, nurture and transform!!



# AI&DS | HACKATHON-PSY-CHORE - DAY 1









Department of Artificial Intelligence and Data Science in association with Wenzhou Kean University, China organized Two day hackathon Psy-Chore on 28.03.2023 & 29.03.2023.

Students from various colleges actively participated and presented their innovative ideas to provide solutions to help people with neuro disorders.

#### **Evaluation Jury members**

Mr. Manivannan, CEO, Ampyo Technologies Pvt Ltd, Coimbatore.

Dr.K.Sujatha, Professor, CS, Wenzhou Kean University, China

Dr.T.Sujatha, Associate Professor, Al&DS



## AI&DS | HACKATHON-PSY-CHORE - DAY 2















Participants exhibited their innovative solution for Neuro disorders and got appreciation from jury members. The winners are awarded with exciting cash prizes.

#### **First Prize**

College: KGISL Institue of Technology, Team Name: Tech Amigos

**Members**: M.Kalaivani, II year, J.P. Nithish, II year

#### **Second Prize**

College: Al & DS, SKCET, Team Name: Connectors

Members: Suriya P, II year, Atchaya S, II year, Vishnu LRK, III year,

Hari Hara Chandar B, III year

#### **Best Pitch:**

College: CSBS, SKCET, Team Name: DARQ-X, Members: TamilAnbu R, II year, Lionel Roshan P, II year, Rayhaan R, II year, Suhail A, II year







## EEE | TESTIMONIAL BY PLACED **STUDENTS**

Studying at SKCET was a wonderful experience, one that will live in the memory forever. I had the chance to get to know the remarkable and vibrant faculty members who are passionate, amiable, patient, and highly competent. I have been able to excel in all areas of life thanks to their direction and close supervision. Without the assistance of the Placement & Training cell, I wouldn't have been employed by a reputable company. I've changed into a new person. For this fantastic opportunity, I am grateful to my Parents, the SKCET administration, the principal, and the entire SKCET community.

Anuvarshini K M **EEE (2023 Batch)** Kaar Technologies - 6.5LPA







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## R&D | UK DESIGN PATENT GRANT | SKCET



#### SKCET: INNOVATIVE ENGINEERING SOLUTION - UK PATENT GRANT

SKCET, Dr.J.Janet. Principal Dr.S.Balakrishnan, HoD CSBS. Dr.S.Venkata Lakshmi, HoD - Al&DS, Dr.P.Kavitha Rani, HoD - M.Tech CSE Dr.K.C.Ramya, HoD- EEE and Dr.G.Vijaya, Professor, CSE has received a UK design patent grant with a Certificate of Registration by the Patent Office for the patent titled "An IOT Based Agriculture Drone for Pesticide Spray" with the design Number 6268378.



## **R&D | JOURNAL PUBLICATION | EEE**

Semiconductor Optoelectronics, Vol. 41 No. 12 (2022), 1277-1287



PERFORMANCE EVALUATION OF PV INTEGRATED GRID SYSTEM USING SEVEN-LEVEL GRID-CONNECTED PACKED U CELL INVERTER

B. Stalin<sup>1</sup>, D. Buvana<sup>2</sup>, B. Hemananth<sup>3</sup>, K. C. Ramya<sup>4</sup>, T. Ilakkia<sup>5</sup>and M. Vetrivel<sup>6</sup>

<sup>1</sup>Professor, Dr. M.G.R. Polytechnic College, Arani, Tinuvannamalai, Tamilnadu, India

<sup>2</sup>Professor, Adhiparasakthi Engineering College, Melmaruvathur, Tamilnadu, India <sup>3</sup>Assistant Professor, Sri Eshwar College of Engineering, Coimbatore, Tamil Nadu, India.
<sup>5</sup>Professor, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India.
India
<sup>5</sup>Assistant Professor, Sona College of Technology, Salem, Tamilnadu, India.

<sup>6</sup>Assistant Professor, Narasu's Sarathy Institute of Technology, Salem, Tamil Nadu, India

This article presents and analyses the standalone operation of a Packed U Cell(PUC) inverter in a grid-connected PV system. In this system, seven level inverter its formulated using six switches and two DC sources. The INC MPPT topology is utilized in this topology to boost the efficiency of the PV system and is integrated with a SEPIC converter. To demonstrate its effectiveness, simulations were carried out using the MATLAB/Simulink platform. From the results, it can be concluded that the proposed PUC7 inverter injects an active with unit power

#### Introduction

The use of fossil fuels as a source for electrical energy production has resulted in increased fuel costs and carbon dioxide emissions. On the other hand, Renewable Energy Sources (RES) like PV, wind etc., plays a significant role in electricity generation. Solar PV cell power generation is characterised by low operating costs, clean energy and less maintenance. Apart from this, PV based energy systems are a possible solution to the growing environmental concerns [1]. Due to its ease of installation and operation, PV arrays are used widely in off-grid applications [2]. So researchers from all over the world are currently concentrating on improving the three following aspects of a solar system:

(1) System Efficiency:

(2) Installation Costs and (3) Reliability.

For integrating PV system with grid, Multilevel inverters are utilised to provide high power form a medium voltage source. They are becoming more popular due to their benefits over traditional inverters. Different voltage levels are synthesised to produce multilevel output [3]. Despite not having a pure sinusoidal output voltage, they have a significantly lower total harmonic distortion (THD) than the two-level topology, which mitigates power quality problems [4]. The multilevel inverter can reduce the level of Harmonics at the point of common coupling in accordance with IEEE standard (519-2014). The harmonics limit is fixed at 5% for

Dr.K.C.Ramya, EEE HoD. Department has published a paper entitled "Performance Evaluation of PV Integrated Grid System Seven-Level Using Grid-Connected **Packed** Cell Inverter" Semiconductor in Optoelectronics **Impact** Factor: 0.58. It is indexed Scopus

Dr.J.Karthika. Professor. EEE Department has published a paper entitled on "A hybrid solar-battery power source with nano - grid smart home with plug-in electric vehicle" AIP Conference Proceedings 2690, 020039 (2023) https://doi.org/10.1063/5.0119613.

#### A Hybrid Solar-Battery Power Source with Nano - Grid Smart Home with Plug-In Electric Vehicle

E. Fantin Irudaya Raj $^{1,a}$ , J. Karthika $^{2,b}$ , N. Keerthi Kumar $^{3,c}$ , Bikash Chandra Saha $^{4,d}$ , S. Hemavathi $^{5,e}$ , T. Vijay Muni $^{6,f}$ 

<sup>1</sup>Department of Electrical & Electronics Engineering, Dr. Swandia Adubusar Celling of Engineering, Druchendur—
GERIS, Tamilhadu, India

<sup>2</sup>Department of Electrical & Electronics Engineering, Bit Trimba College of Engineering and Technology,
Can behavior—4-41003, Tamil Modu, India

<sup>3</sup>Department of Machanical Engineering, BitS Institute of Perhonology and Management, Yelahanka, Engilor—
5,00045, Kamataka, India

<sup>4</sup>Department of Electrical & Electronics Engineering, Canhody Jentitute of Technology, Rancha Indiahanka

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<sup>2</sup>Battery Existon, Central Biocircohemical Research Institute and Academy of Scientific and Innovative Parearch, CSER Madras Complex, Chemist - 6001.13, Tamil Nadu, India <sup>2</sup>Department of Biocircal & Biocirconics Engineering, Content Labelmanish Bidaction Foundation, Vaddaswarum, Chemistry Content of Content of Content Labelmanish India

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Keywords: Solar PV Array, BESS, Smart Home Energy Management system

#### INTRODUCTION

The accelerated production of green and hybrid vehicles [1, 2] is taking place due to the ongoing ecological crisis and electricity demand. Electric cars are, in any event, continuously discontinuous and uncribable changing activities, mobiling certain networks power sources, such as Solve and Wind it is necessary for introducing and funding the most up [1, 24] that EVs and large-scale distributed generation (DG) units be accommodated and unstitute to name an optimal usage of electricity [5].

EET International Conference on Applied Science & Engineering (CASE 2021) AEP Conf. Proc. 2690, 020039-1-020039-5; https://doi.org/10.1063/5.0119613 Published by AEP Publishing, 978-0-7554-6334-1/\$30.00 020039-1







### **CIVIL | NITTT COURSE COMPLETION**



The following Civil Engineering faculty members have completed NITTT courses.

S. No	Name of the faculty	Name of the course
1	Mr. R. Vighnesh	M3: Communication skills, modes and knowledge dissemination
2	Ms. R. Hemavathi	M5: Technology Enabled Learning and Life Long Self Learning



## CIVIL | SEMINAR ON VALUE **ENGINEERING & DESIGN THINKING**



M. R. Ezhilkumar. Assistant Professor, Civil **Engineering** Department, participated in "Value **Engineering and Design Thinking** process" for product and conducted by Vidya Jyothi Institute of Technology, Hyderabad under AICTE-DCP Scheme.

### SOM | FDP ON INVESTOR AWARENESS

Dr. R. SuyamPraba, **Associate** Professor, SOM has actively participated and completed One Day **National** Level online Faculty Development Program Investor on **Awareness** conducted by Department of Management Sciences, Hindusthan Institute of Technology, Coimbatore in association with Knowise Learning Academy, Bengaluru on 16th March 2023.



Feedback @ skcetbuzz@skcet.ac.in



## EEE | FDP ON RESEARCH CHALLENGES AND ISSUES ON ANTENNAS

Ms.G.Mahalakshmi, **Assistant** Professor, EEE Department has participated in Six Days Faculty Development **Program** "Research Challenges and Issues on Antennas" organized by IEEE Antennas & Propagation society, in association with Sathyabama Institute of Science and Technology, Chennai.



## IT | INFOSYS CERTIFICATION

Dr. S. Durga, Associate Professor, IT has successfully completed a course on "IoT Platforms Overview" on March 27<sup>th</sup>, 2023 and "IoT Edge Computing and loT Analytics" on March 28th, 2023 certified by Infosys springboard.







### IT | FDP ON ML USING PYTHON



Dr.S.Deepa Kanmani, **Associate** Professor, IT has participated in the five days FDP on "Machine Learning Using Python" from 13.03.2023 to 17.03.2023 conducted by Department of Computer Applications, Hindusthan College of Engineering and Technology, Coimbatore.

## AI&DS | ATAL FACULTY DEVELOPMENT **PROGRAMME**

Mr.SenthilKumar, Assistant Professor of AI&DS participated has and AICTE completed training and Learning(ATAL) Academy Blended Hybrid FDP on" Recent Advances and challenges in Artificial Intelligence, Machine Learning & **Blockchain** Technology" from 04.03.2023 10.03.2023 at Amrita Vishwa Vidyapeetham, Coimbatore campus



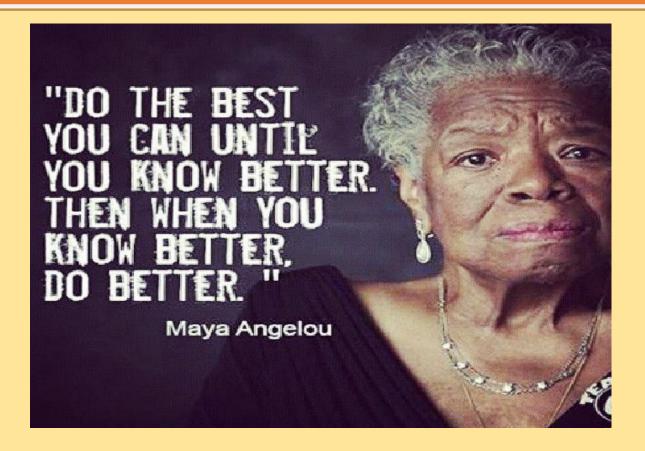


## AI&DS | FDP ON ML USING PYTHON



Mr.G.S.Pugalendhi, **Assistant** Professor of AI&DS has participated five days faculty development on" programme Machine Learning using Python" from 13.03.23 to 17.03.2023

#### **LEGENDARY INSIGHTS**







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### **CIVIL | CONFERENCE PRESENTATION**

Chimp Optimization Algorithm with Fuzzy Cognitive Map for Vibration-based Damage Detection

Dr.P.Saravanakumar. **Associate** Civil Professor. Department of Engineering, has presented a research article titled "Chimp optimization algorithm with Fuzzy cognitive map vibration-based for in the 2<sup>nd</sup> detection" International Conference on Sustainable Computing Data Communication (ICSCDS 23) organised by Shree Hi-Tech Engineering Venkateswara College on 23<sup>rd</sup> to 25<sup>th</sup> March 2023.

## **EEE | CONFERENCE PRESENTATION**

Dr.S.Sivaranjani, Professor, EEE **Department** has presented research paper entitled "Efficient Object Detection on Sparse-to-Dense Depth Prediction" in the International Conference on Advanced Computing & Communication Systems-ICACCS 2023 at Sri Eshwar College of Engineering, Coimbatore.



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#### **EEE | CONFERENCE PRESENTATION**



Ms.T.Malini, Assistant Professor, **EEE** Department has presented research paper entitled "IoT Based **Smart Poultry Farm Monitoring**" in the International Conference on Advanced Computing & Communication Systems-ICACCS 2023 at Sri Eshwar College of Engineering, Coimbatore.

### **MCT | CONFERENCE PRESENTATION**

Mr.S.Panneerselvam, **Assistant** Professor of MCT has presented a paper entitled "Automated Land Machine" Triller in the International Conference on Advances in Mechanical and Civil Engineering (Hybrid Mode) held at M.Kumarasamy College of Engineering, Karur on 17<sup>th</sup> March 2023.





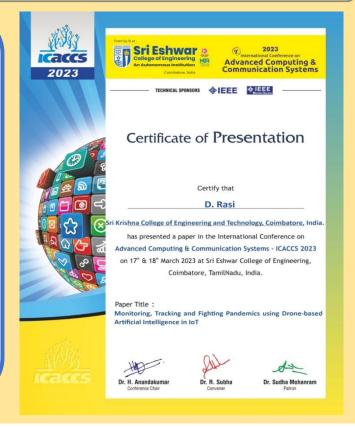
### **CSE | CONFERENCE PRESENTATION**



Dr. K. Professor. Ramesh Department of CSE has Presented a paper titled "Quantum Computing: A Threat to Block chain Technology and Potential Solutions" in the research scholar's colloquium 2023 held in association with **ACM** Chennai, CSI Chennai, IEEE CS Madras on march14th 2023 at SSN College of Engineering ,Kalavakkam.

### **CSE | CONFERENCE PRESENTATION**

Dr.D.Rasi, Associate Professor, Department of CSE has presented a paper titled "Monitoring, Tracking and Fighting Pandemics using -based Artificial Drone Intelligence in IOT" the International Conference on Advanced computing Communication Systems during 17th and 18th March 2023 at Sri Eshwar College of Engineering ,Coimbatore.



Feedback @ skcetbuzz@skcet.ac.in



## MCT | CONFERENCE PRESENTATION



Mr.S.Panneerselvam, Assistant Professor of MCT has presented a paper entitled "Solar Panel Cleaning Robot" the International in Conference on Advances in and Civil Engineering Mechanical (Hybrid Mode) held at M.Kumarasamy College of Engineering, Karur on 17th March 2023.

#### **HEALTHOGRAPHICS**









## SKCET | ALUMNI ASSOCIATION MEETING





The Alumni Coordinators Dr.JayasudhaSubburaj, Dr. K.C Ramya and

Department Alumni Coordinators discussed on the upcoming International

Virtual Alumni Meet and its arrangements.







# NATURE CLICKS | EEE



Dr. S. Sivaranjani **Professor, EEE** 







## **SKCET IN MEDIA**



