SKCET Buzz

14th – 22nd April 2022

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Happy Reading!

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STUDENT CERTIFICATIONS

ECE| KURUKSHETRA 2022

Second year **ECE** students have participated in various events in **Kurukshetra 2022** organized by Anna University CEG campus. The details of the event wise participation are as follows:

Name of Event	Number of students participated
Workshop on Blockchain	07
Workshop on Drone Design	10
Workshop on Hand Gesture Robotics	30
Workshop on Stock market Analysis and Creative thinking	02
Project Expo	02

MCT| WORKSHOP ON 3D PRINTING & SOLIDWORKS

H.S.Kishoor, student of **Second** year **MCT** has attended a workshop on **"3D printing and solid works"** organized by Kongu Engineering College on 07.04.2022.

MCT| WORKSHOP ON TECHNOLOGY ENHANCEMENT IN FORD ECOSPORT VEHICLE

H.S.Kishoor, student of **Second** year **MCT** has attended a one day workshop on "**Technology Enhancement in Ford Ecosport Vehicle (US Export Model)** organized by the Department of Automobile Engineering, Hindustan College of Engineering and Technology on 09.04.2022.

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STUDENT PROGRESSION

CSE| HIGHER STUDIES @ TOP TIER UNIVERSITIES

AdithyaMenon S , Yogeshwar B K and Harish Shanmugam J, students of **Final** year **CSE** have got an excellent opportunity to pursue Masters on **"Cybersecurity, Data and Computational Science"** at Top Tier Universities like Washington University, Saint Louis (USA), University of Maryland (USA), University of Queensland (Australia) ,Monash University (Australia),University College of Dublin (Ireland) and Dublin University (Ireland).

EEE | SPORTS ACCOLADE

S. Ajay, student of **Third** year **EEE** has bagged a **Gold Medal** in the **National Level Open Karate Championship, India – 2022** conducted by Indian Okinawa Goju – Ryu Karate Do Association on 10.04.2022 at Chennai. He has also secured **Bronze Medal** under **Mens - 19 years category** in *Kumite* **Event**. He has also been representing our country in various International Tournaments.

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EVENTS

EVENTS

ECE| KRISHNECS-2K22 INAUGURATION

Krishnecs 2k22, a National Level Technical Symposium sponsored by **IEEE Madras Section Student Chapter** was inaugurated on 22.04.2022 with a presage to provide a commodious belvedere for young innovative minds to present their ideas and sharpen their technical skills.

Dr.V.Nandalal, Professor, Department of **ECE** welcomed the gathering. **Dr.S.Sophia**, Head of the Department , **ECE** shared insightful thoughts on how students should hone their technical skills and foresee the futuristic technologies. **Mr.AR.C.Arunachalam**, Student Coordinator, Department of ECE,delivered the Vote of Thanks.

ECE| KRISHNECS-2K22 INAUGURATION-GLIMPSES

CSE| INAUGURATION OF CRYOSAT - CSE ASSOCIATION

CRYOSAT, CSE Association was inaugurated by our Principal Madam **Dr.J.Janet** on 21.04.2022 at BS-03 hall. The chief guest of this event was **Mr .Akshay V, Founder, Ed Zola, Coimbatore**. He motivated the students through his inspiring words "The way towards the success is not with the skills that we are born with but with the skills we develop through".

Highlights of the Event:

- ❖ Launch of CRYOSAT
- ❖ Release of the magazine- CRYOFEED - first edition
- ❖ Introduction of CSE Students office bearers. The crew members presented their roles on the stage.

AI&DS| CAMPUS CONNECT PROGRAMME

Department of **Artificial Intelligence and Data Science** organized a Campus Connect Seminar on **"How to Process and Work on Data"** for SKCET Center of Excellence Deep Vision students. Session was handled by **Dr.A.Sajeev Ram,** Associate Professor, **AI&DS** on 07.04.2022.The pointers of discussion were: Process of Data, How data patterns are useful, Types of data science, Data Science life cycle, AI vs ML vs Data Science.

ECE|GUEST LECTURE ON CIRCUIT DESIGN AND DEVELOPMENT OF PCB

Department of **ECE** organized a Guest Lecture on "**Circuit Design and Development of PCB**" for the **Second** year **ECE** students on 07.04.2022. The Resource Person for the session was **Mr.K. Kaliraj**, Technical Engineer, Livewire, Coimbatore. PCB basics, circuit design, implementation of circuit traces on PCB, overview of Product Development and Gerber File generation were the session take a ways.

AI & DS| CAMPUS CONNECT PROGRAMME

Department of **Artificial Intelligence and Data Science** organized a Campus Connect Seminar on **"Taking First Steps towards Machine Learning"** for SKCET Center of Excellence Deep Vision students. Session was handled by **Dr.T.Sujatha,** Associate Professor, **AI& DS** on 11.04.2022. The pointers of discussion were: Understanding of Traditional Programming and Machine Learning, Role of Machine Learning in Research Applications, Learning Methods, Machine Learning Algorithms, Importance of Data quality, Real Time Examples and Working with Dataset.

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TRAINING AND PLACEMENT CELL

PLACEMENT & TRAINING

SKCET | TESTIMONIAL BY PLACED STUDENTS

I am fortunate to be a part of SKCET where I was able to grow. The entire faculty members and department leaves no stone unturned to shape one's future. My four years at SKCET have been a wonderful experience of learning with prolific exposure. My Huge respect and love towards the entire faculty members and the department is always special. It was their efforts that made me to count myself into a better professional. SKCET contributed a lot to the development of my personality. Our placement team guided and encouraged us at each and every step thereby helping me secure my placement in a reputed company.

SREE KRISHNA SUDHAN G N -MECH(2021 Batch),

Federal

My journey with SKCET is definitely one I will cherish for life. In a very short span of time, I was able to learn a lot, which helped me excel academically as well as personally. SKCET aims at overall development of an individual and also provides multiple opportunities and exposure to develop new skills. Students are able to showcase their talent not just through technical but also through extra-curricular activities. The competitive environment always pushed me to perform my best. The placement preparedness training was proved to us from the beginning of the 3ʳᵈ Semester and it went on till the end of the 6ᵗʰ semester. The feeling of being employed upon graduating is immense and a morale boosting experience. I extend my gratitude to our Placement cell. I am very much grateful to my parents for choosing SKCET. Thanks to our Principal Madam and entire SKCET faculty team.

VIVEK R, MCT(2021 BATCH),

TURBO ENERGY

SKCET | TESTIMONIAL BY PLACED STUDENTS

**GOKULARAJA.R-EEE [2022Batch]
HCL TECH –5.5 LPA**

I am a proud SKCETian. It is a great pleasure for me to be a part of SKCET family, to explore and enjoy its immense resources. The Placement Team of SKCET has brought plenty of companies to our campus even in this pandemic situation. I take this chance to show my sincere gratitude to all my department faculty members and placement trainers. The training provided by the placement team, boosted my cognitive skills and interpersonal skills and it's the key reason for me to clear my interviews. It's been a wonderful journey of four years and I would like to thank the management and all the faculty members for encouraging me to think globally and help my wings to take off!

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PROJECT BASED LEARNING

CIVIL | PROJECT REVIEW

Project review – Phase 2 was conducted for the **Final** year **Civil Engineering** students on 7.04.2022. The students presented the objectives of their work. Faculty coordinator and guides of the respective batches provided their feedback and suggestions for further improvisation.

MECH| PROJECT REVIEW

Project Review was conducted for the **Final** year **Mechanical Engineering** students. The progress of the project work was reviewed and feedbacks for further improvisation of the projects were given by the faculty members of the Department.

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R&D

RESEARCH AND DEVELOPMENT

R&D|BOOK CHAPTER PUBLICATION|EEE &ECE

Mr. V. V. Vineeth, Assistant Professor, **EEE** along with **Dr. S. Sophia,**HoD, **ECE** has published a book chapter entitled "**Data Falsification Detection in AMI: A Secure Perspective Analysis"**in Artificial Intelligence for Renewable Energy Systems, Book Volume with ISBN:978-1-119-76169-3 published by Scrivener Publishing.

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Data Falsification Detection in AMI: A Secure Perspective Analysis

Vineeth V.V.[1]* and S. Sophia[1]

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

Abstract
Advanced metering infrastructure (AMI) being a crucial component of smart grid environment has enormous attractive characteristics and relatively low cost of installation. AMI makes communication in two-way possible between the smart metering infrastructure and utility centers which facilitates functionalities like automated reading of meter data and power distribution monitor and control. Nevertheless, the implementations of AMIs poses several challenges and threats which can, in turn, deteriorate its benefits. This paper gives an overview of various attack scenarios associated with AMI with major focus on data falsification attacks. In data falsification attacks, attackers aim to inject malicious codes or false data to tamper legitimate data. A detailed analysis of the various detection schemes that are available to effectively detect such attacks is also given on the paper.

Keywords: Advanced metering infrastructure, smart meter, false data injection, detection

9.1 Introduction

The numerous enhancements and improved innovative potential of smart grid environment create grid architecture complex and expose the grid to a variety of attacks. Advanced metering infrastructure (AMI) acts as a basic

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R&D|PAPER PUBLICATION|ECE

Ms. Anish Fathima B, Assistant Professor, **ECE** has published a Book Chapter in the Part of the Studies, Big Data book series. It is a Scopus Indexed book series.

R&D|PAPER PUBLICATION|MECH

Mr.S.Ranjith Kumar, Assistant Professor, Department of **Mechanical Engineering** has published a scientific research article titled **'Thermal Analysis of Counter Flow Concentric Tube Heat Exchanger Using Runge-Kutta Method'** in AIP Conference Proceedings. It is a Scopus Indexed publication.

R&D|PAPER PUBLICATION|CIVIL

Mr. A. Jesudass, Assistant Professor, Department of **Civil Engineering** along with the **Final** year students **M. Karthick, P. A. Nishanth** and **S. Sanjay Anand** has published a research article titled **"Optimization of Embodied Energy and operational energy of school design by comparing conventional and sustainable material configurations"** in Materials Today: Proceedings.
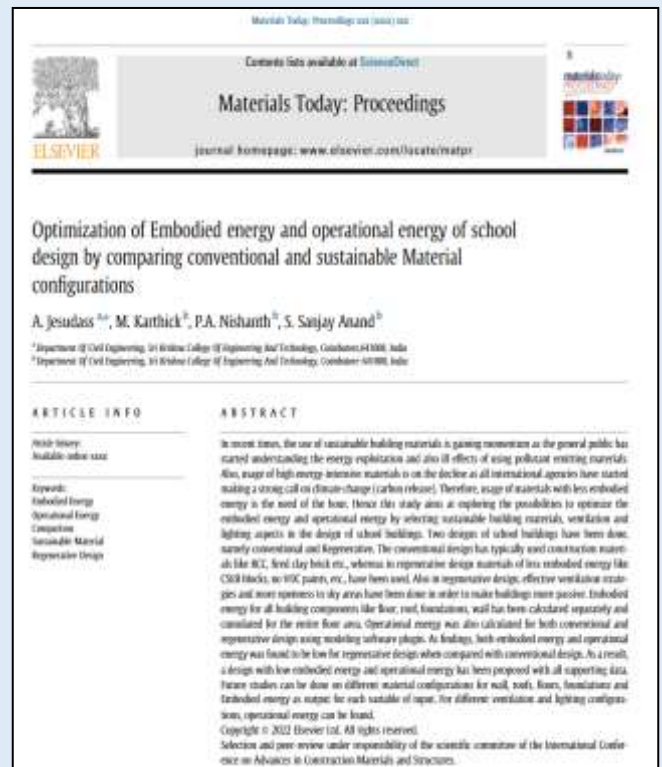
R&D|PAPER PUBLICATION|IT

Dr.S. Durga, Associate Professor, Department of **Information Technology** has published a research article titled **"Preparedness for Managing Pandemic using Distributed Mobile Brokers-using Covid 19 use case"** in the Materials Today Proceedings, vol:51, issue:8, pp:2384-2388.

R&D|PAPER PUBLICATION|IT

Dr. S Deepakanmani, Associate Professor, Department of **Information Technology** has published a research article titled **"Effect of Image Transformation on Efficient Net Model for COVID-19 CT Image Classification"** in the Materials Today Proceedings, vol:51, pp:2512-2519.

R&D| BOOK PUBLICATION|MECH

Dr. C. Samson Jerold Samuel, Associate Professor, **Mechanical Engineering** been the Editor and has published a book titled **'Functional Composite Materials: Manufacturing Technology and Experimental Application'** (ISBN: 978-981-5039-90-0) published by Bentham Science. The book will be indexed in Web of Science and Scopus. The Link for the book is https://www.eurekaselect.com/ebook_volume/3345

GOOGLE DOODLE| EARTH DAY

Google Doodle, on the occasion of World Earth Day 2022, shared a time-lapse of the impacts of climate change on our planet - one of the most pressing topics of our time. Using real time-lapse imagery from Google Earth Timelapse and other sources, the Doodle shows the impact of climate change across four different locales around our planet. Each remaining on the homepage for several hours at a time.

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FACULTY CERTIFICATIONS

CIVIL| INDUCTION TRAINING ON NATIONAL CLEAN AIR PROGRAM

Mr.M.R.Ezhilkumar, Assistant Professor, Department of **Civil Engineering** has participated in NEERI sponsored Induction Training on "**National Clean Air Program**" from 21.03.22 to 23.03.22.

EEE| STC ON ARTIFICIAL INTELLIGENCE AND BIG DATA ANALYSIS FOR ELECTRICAL ENGINEERING

Dr. B. Karthikeyan, Associate Professor, **EEE** has participated in the AICTE sponsored one Week Short Term Course on "**Artificial Intelligence and Big Data Analysis for Electrical Engineering**" organized by the Department of Electrical and Electronics Engineering, Bharat Institute of Higher Education and Research, Chennai in association with National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh in collaboration with Math Work.

MECH|NPTEL CERTIFICATION

Dr.M.Vigneshkumar, Assistant Professor, **Mechanical Engineering** has successfully completed NPTEL course on **'Principle of Casting Technology'** and has obtained Elite + Silver Certification.

MCT| COURSERA CERTIFICATION

Mr. Pannerselvam S, Assistant Professor, **MCT** has successfully completed "**Agile Project: Product prototype touch point Analysis in Miro**", "**CFD Simulation through a Centrifugal Pump"**and "**Finite Element Analysis Convergence and Mesh Independence**"online noncredit courses offered through Coursera.

MCT| COURSERA CERTIFICATION

Mr. Arunkumar P M, Assistant Professor, **MCT** has successfully completed "**Computational Fluid Mechanics – Airflow around a spoiler**" and "**Finite Element Analysis Convergence and Mesh Independence**"online noncredit courses offered through Coursera.

MCT| COURSERA CERTIFICATION

Mr.J.Dhiyaneshwaran, Assistant Professor, **Mechanical Engineering** has actively participated in a Faculty Development Program on **'Applications of Artificial Intelligence in Digital Manufacturing'** sponsored by the Ministry of Electronics and Information Technology and ICT Academy, NIT Warangal at Sri Sai Ram Engineering College, Chennai from 21.02.2022 to 03.03.2022.
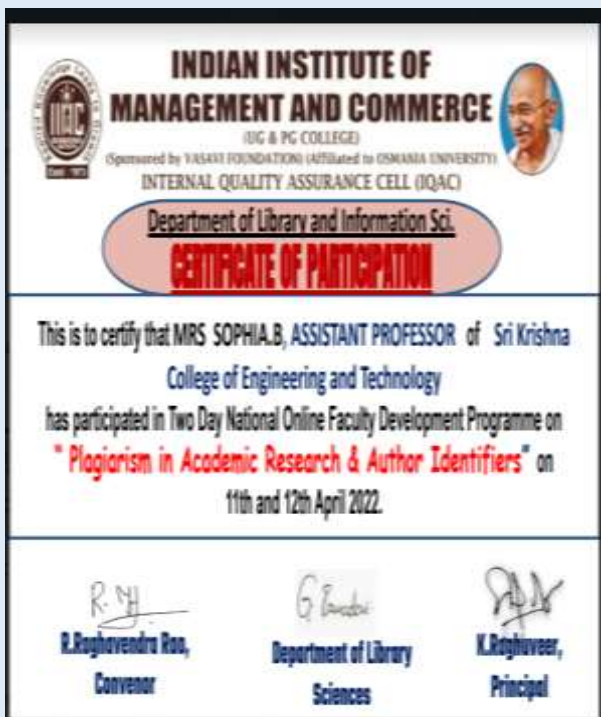
M.Tech CSE|IEEE PEER REVIEWER

Dr.P.KavithRani, Professor and Head, **M.Tech CSE** has reviewed the article "**Dim and Small Target Detection based on Gaussian Markov Random Field Motion Direction Estimation**" (December 2021) for publication in IEEE Access.

CSE| FDP ON PLAGIARISM IN ACADEMIC RESEARCH & AUTHOR IDENTIFIER

Ms.B.Sophia, Assistant Professor,**CSE** has participated in the two day National Online FDP on "**Plagiarism in Academic Research & Author Identifiers**" conducted by the Department of Library and Information Science, Indian Institute of Management and Commerce on 11.04.2022 and 12.04.2022 .

MECH| FDP ON FINITE ELEMENT ANALYSIS

Dr. V.P. Srinivasan, Mr.S.Balu Mahandiran and **Mr. J. Baskaran,** Assistant Professors, **Mechanical Engineering** have actively participated in the six days Faculty Development Program on **'Finite Element Analysis'** organized by Dr. NGP Institute of Technology sponsored by Centre for Faculty Development, Anna University, Chennai from 03.01.2022 to 08.01.2022.

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CONFERENCE PRESENTATION

MCT| CONFERENCE PRESENTATION

Dr.Feroz Ali, Associate Professor, **MCT** has presented two papers titled **"Exploration on various forging route performance of cast A350 alloy reinforced with fly ash and MWCNT composites"** and **"Evaluation of the polyamides Mechanical Properties for varying Infill Percentage in FDM process"** in ICAME 2022 – International Conference organized by SRM Institute of Science and Technology, Chennai.

MCT| CONFERENCE PRESENTATION

Mr.Arunkumar P M, Assistant Professor**, MCT**, has presented two papers entitled "**Design and Fabrication of automatic hose cutting machine**" and "**Optimization of machining fixture layout by considering twoDimensional work piece fixture contact regions**" in the International Conference on Advanced Computing & Communication Systems ICACCS 2022 organized by Sri Eshwar College of Engineering, Coimbatore on 25th and 26th March 2022.

MCT| CONFERENCE PRESENTATION

Raghul.R, Yogesh Muthuram, Harshavardhan Reddy, Shakil Khanna.N, students of **MCT** have presented a paper titled "**Evaluation of the polyamides Mechanical Properties for varying Infill Percentage in FDM process**" in ICAME 2022 –International Conference organized by SRM Institute of Science and Technology, Chennai.