

**SKCET**



# **Buzz**



**13 March 2020**

**DAILY NEWS LETTER**

**Volume: 2 Issue: 203**

**Editor-in-Chief**

Dr.J.Janet  
Principal

**Co-Editor**

Dr.S.Sheeba Rani - EEE

**Editorial Team**

Mr.M.Diwakaran - IT, Ms.N.Pooranam - CSE  
Mrs.S.Mary Fabiola - S&H



## PRINCIPAL MEETING WITH HODS



**Principal Madam** convened a meeting with Heads of various departments to discuss Academic activities and NAAC review.

## R&D – ELSEVIER AUTHOR WORKSHOP



**Mr. Vishal Gupta, Customer Consultant, Elsevier, South Asia** visited our campus and had an interaction with Principal Madam. He also conducted a hands-on session to envision the faculty researchers on how to use the tools and items available in Scopus database. The session helped the researchers to gain insight on quality authorship guidelines in trust worthy peer reviewed and highly cited journals.





# GUEST LECTURES

## IT- ZOHO CREATOR CERTIFIED ASSOCIATE PROGRAMME



**Second** year students from the Department of **CSE** and **IT** actively participated in the Day 2 of the **Zoho Creator Certified Associate Programme** organized by the Department of **Information Technology**. A hands- on training session on **Zoho Creator tool** was convened by Ms.Sowmya J, Head-Training & operations, ITK Educational Services Pvt.Ltd and Mr.Mohan M, Trainer, ZOHO Creator, ITK Educational Services Pvt.Ltd to hone the technical skills of the students.

## SoM - GUEST LECTURE ON DIGITAL BANKING

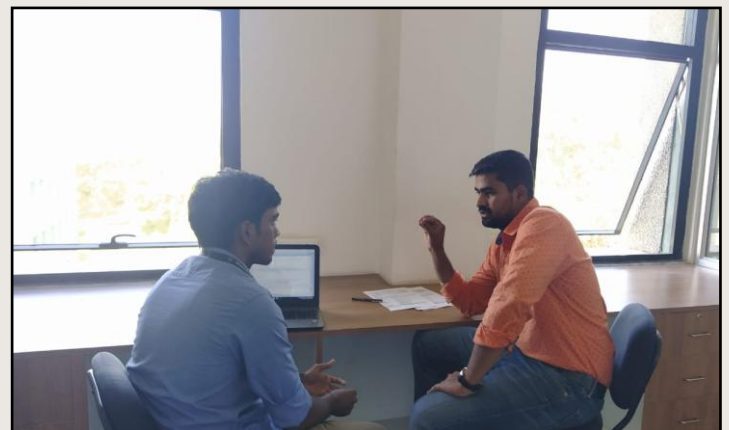


**Mr.A.M.Rajendran**, Chief Manager, Channel Management & Customer Service, State Bank of India, Coimbatore, addressed the students of I MBA on the topic “Digital Banking”.





## PLACEMENT- ASPIRE STUDENTS' REVIEW MEETING



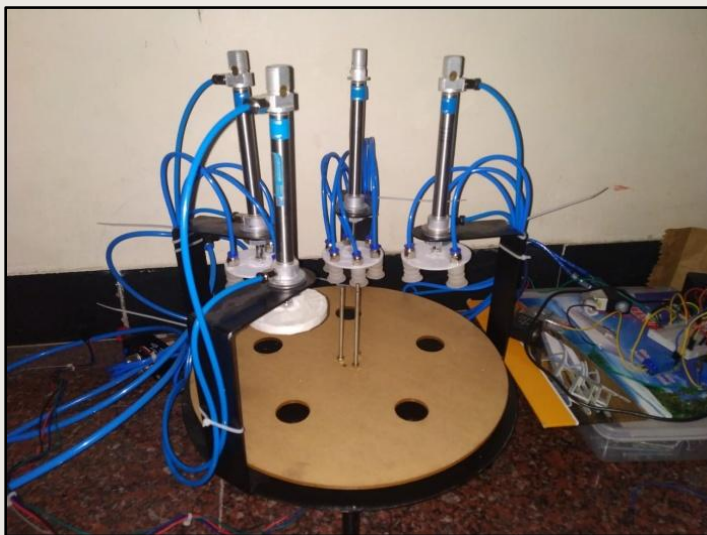
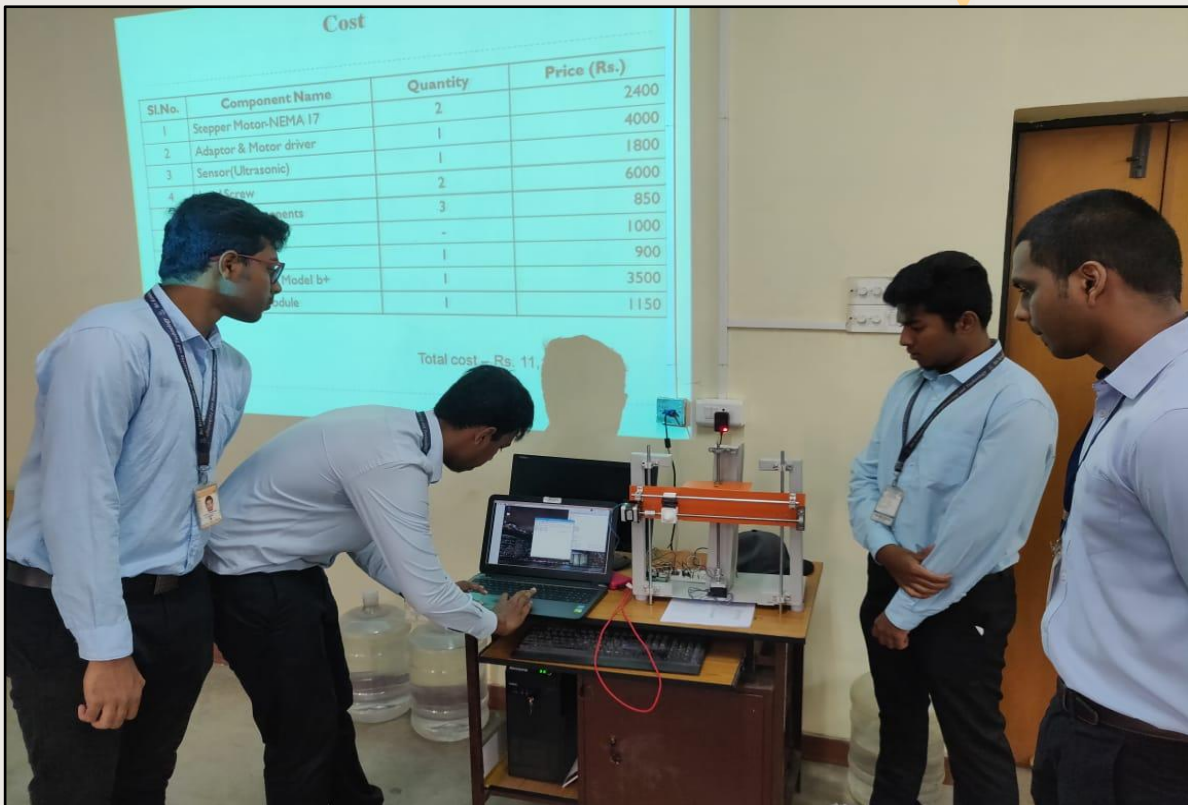
Final Review of Aspire Systems COE was conducted today. **Mr. Antony Rufus**, Talent Nurturing Team, **Mr. Nandha**, Team Lead and **Mr. Karthick**, Manager, Aspire Systems conducted a final review for Aspire COE students. The students were tested on the technical knowledge gained during their Internships.





# TIP

## MCT- PROJECT REVIEW



Third Industrial Project review was conducted for the **Final year students** of **Mechatronics** Engineering Department. The panel members reviewed their working model of the projects, status of journal outcomes. Suggestions were given to improvise the technical outcomes of the project.



# MCT- PROJECT REVIEW: GLIMPSES



## CSBS - KNOWLEDGE SHARING: SNAP TALK

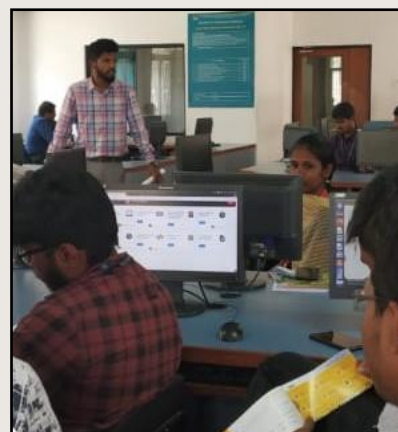


**Manoshree J and Sandhya A of Second year CSE C (TCS)** presented a seminar session on the topic '**Distributed Storage of the current era**' to the students of II CSE C. The session was facilitated by Mrs.G.Ignisha Rajathi, Assistant Professor- CSBS.





**HIGHER EDUCATION  
A QUEST FOR EXCELLENCE!**

**CSE - HIGHER STUDIES AWARENESS PROGRAMME**

As an initiative to encourage students to compete at National Front (National Level Quiz), **Mr. Shiju Mon Pushparaj** from **Gate Academy** addressed the Second and Third year students. **National Engineering Challenge** aims to empower engineering graduates and expose them to the national-level quiz competition, scholarships and internships. The contest challenges the technical knowledge of the engineers on a national platform and offers a sneak peek into the future of engineering and job opportunities.



## EEE - GUEST LECTURE ON HIGHER EDUCATION OPPORTUNITIES



Department of EEE conducted a Guest lecture on “**Opportunities in Higher Education**” by **Mr.Vijwat Pahwa**, Faculty Engineering, ACE Academy, Hyderabad.





**CIVIL - PRINCIPAL COMMENDATIONS TO IIT FEST 2020 WINNERS**

Principal Madam appreciated the students team of Civil Engineering who actively participated and bagged prizes in **Encode Steel, Sustainable Design challenge and modeling** events conducted in **Civil Engineering Association Fest 2020**, organised by **IIT Madras**.

## MECH – STUDENT ACCOLADES AT MEQUEST 2020

Students from Department of **Mechanical Engineering** have won prizes in various events at MEQUEST 2020 - A National Level Technical Symposium held at Sri Ramakrishna College of Engineering, Coimbatore. The team was mentored by **Mr. S. Krishnamoorthy**, Assistant Professor, Department of Mechanical Engineering.

Event	Name of the students	Prize
Mr. Mechanic	M.Naveenkumar (III MECH)	1 <sup>st</sup> Place
Master Brain	M.Naveenkumar (III MECH) S.Muhundhan(III MECH)	2 <sup>nd</sup> Place





## ECE - ALUMNI ACCOLADE

Mr.Kathiravan Srinivasan, alumnus of 2007 ME Communication Systems, Department of ECE has received the 'Outstanding **IEEE Access Associate Editor Award** for the year 2019'.



## MECH / ECE - SPORTS ACCOLADE

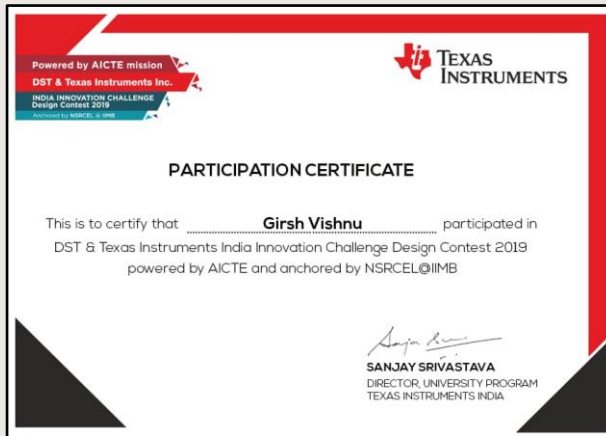


The following students have won noteworthy accolades at Pramotsava, annual sports event of SKCET.

- **Ajith Charan Samy P**, Second Mech was rewarded for being the 'Best Sports Person' in Basketball category.
- **Kirithika S**, Third ECE was rewarded for 'Best Player' in Chess(women) category.



## MECH –DST-TEXAS INNOVATION CHALLENGE



A team from the Department of Mechanical Engineering – **Girish Vishnu, Guruprasad B and Jayasuriya N** participated and submitted innovative ideas in **India Innovation Challenge Design Contest 2019** organized by DST and Texas Instruments powered by AICTE and anchored by NSRCEL@IIM-Bangalore under Make in India Initiative. Based on the active participation and submission of innovative ideas, DST and Texas Instruments provide participation certificate to the all the team members and mentor. Mr. M. Vignesh Kumar, Assistant Professor/Mechanical Engineering was the mentor for this project.





## EEE - DEPARTMENT MEETING



**Dr.K.C.Ramya** HoD/EEE convened a department meeting with faculty members and discussed regarding R& D publications, R&D Proposals and Academic activities.

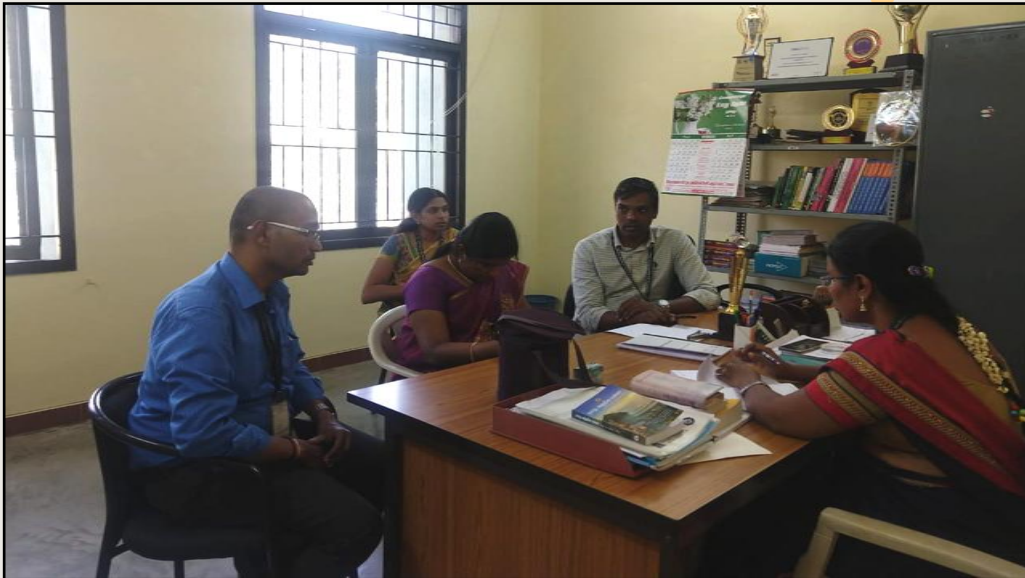
## S&H - DEPARTMENT MEETING



Dr.V.Ragavi, HOD Department of Science and Humanities convened a staff meeting to share information on Semester Practical Schedule, ARM, Scopus/Orcid/ Research Gate id.



## IT – TUTORS MEETING



Dr.N.Susila, Head of the Department, Information Technology convened a meeting with the II year and III year class advisors regarding the academic activities. The key points discussed were:

- Syllabus completion
- Attendance of students
- Placement training
- Finalizing the elective subject for the forthcoming semester

WRITE IT RIGHT: E-N-V-E-L-O-P-E

## ENVELOP

/ɪnˈvɛləp/  
(verb)

to wrap or cover somebody or something completely



I decided to **envelop** my teddy bear in a large towel.

## ENVELOPE

/'ɛnvə,ləʊp/  
(noun)

a flat paper container used for sending letters, etc.



Do you have any **envelopes**?  
I need to mail a letter.





# R&D – RESEARCH ARTICLE PUBLICATION: CSBS

**TECHNICAL TRENDS**

## The Role of Data Science in Big Data Analytics - Overview

► S. Balakrishnan  
Professor and Head, Dept. of Computer Science and Business Systems, Sri Krishna College of Engg. and Technology, Coimbatore, Tamilnadu, India.

Data is made ceaselessly, and at an ever-growing rate. Phones, Online social networking, imaging advances to choose a therapeutic assurance all these and more make new data, and that must be taken care of some spot for reasons unknown. Gadgets and sensors therefore produce explanatory information that ought to be taken care of and arranged persistently. Big Data is making critical new open doors for associations to infer new esteem and make upper hand from their most important resource: information. The field of data science is 'rising at the crossing point of the fields of social science and statistics, information and computer science and design'.

- 1. Introduction**  
Around 100 hours of video are moved to YouTube reliably and it would take around 15 years to watch every video moved in one day. AT&T is thought to 'hold the world's greatest volume of data in one remarkable database' - its phone records database is 312 terabytes in size and contains pretty much 2 trillion lines'. Consistently we send 204,000,000 messages, create 1,800,000 Facebook 'likes', send 278,000 'tweets', and upload 200,000 photographs to Facebook 570 new sites spring into reality each moment of consistency.  
Data science is the 'investigation of where data originates from, what it speaks to and how it tends to be transformed into a significant asset in the production of business and IT systems'. A key part of information science is the use of the logical strategy to shape and move theories to approve decisions about fundamental examples in information.  
The general goal of data science may appear to be direct, however execution is an intricate procedure and includes various strides before the estimation of an information science aim can be watched. This is what that resembles:  
1. Business Understanding  
2. Data Understanding  
3. Data Preparation  
4. Modeling  
5. DS team evaluation  
6. Stakeholder evaluation
- 2. Data Science Landscape**  
Data science landscape can be divided into the following categories: (i) Fields (ii) Objects (iii) Techniques and (iv) Approaches.
- 2.1 Data Science Fields**  
Data Science has different fields such as 'Nanotechnologies, Physics, Robotics, Mathematics, Statistics, Information theory, Information technology and Artificial Intelligence'.
- 2.2 Data Science Objects**  
Methods that 'scale to Big Data are of particular interest in data science, although the discipline is not generally considered to be restricted to such data'.
- 2.3 Data Science Techniques**  
Data science techniques may be in the form of 'Signal processing, Probability models, Machine learning, Statistical learning, Data mining, Database, Data engineering, Pattern recognition, Visualization, Predictive analytics, Uncertainty modeling, Data warehousing, Data compression, Computer programming, and High Performance Computing'.
- 2.4 Data Science Approaches**  
The development of 'machine learning, a branch of artificial intelligence used to uncover patterns in data from which

CSI COMMUNICATIONS | MARCH 2020

Dr. S. Balakrishnan, HOD, CSBS, has published an article titled, 'The role of Data Science in Big Data Analytics – Overview' under Technical Trends in CSI Communications Magazine, March 2020 issue.

Dr. S. Balakrishnan, HOD, CSBS, has published an article titled 'Green Computing: Future of Computers' under Research Front column in CSI Communications Magazine, March 2020 issue.

**RESEARCH FRONT**

## Green Computing: Future of Computers

► S. Balakrishnan  
Professor and Head, Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu, India. Email: balakrishnan@skcet.ac.in

Green computing has started to spread in the past not many years, extending developing comprehensiveness. Other than the regardless of what you look like at it affectability to ordinary issues, such intrigue moreover starts from money related needs, since both vitality costs and electrical necessities of IT industry around the globe show a consistently making model. Green figuring, the assessment of fit and eco-satisfying dealing with assets is under the idea of normal affiliations, and relationship from different endeavors. Generally, relationship in the "PC business have come to appreciate that practicing biological care is to their most noticeable favored position, both to the degree publicizing and diminished expenses".

- 1. Introduction:**  
Green computing is the term used to 'signify productive utilization of assets in computing'. It is otherwise called Green IT. Green Computing is "Where organizations adopt a policy of ensuring that the setup and operations of Information Technology produces the minimal carbon footprint". It is 'the study and practice of designing, manufacturing, using and disposing of computers, servers, and associated subsystems'.  
**1.1 History**  
The expression "Green Computing" was presumably begat soon after the "Energy Star" program started path in 1992. One of the primary consequences of green computing was the "Sleep mode" capacity of PC screens. As the idea created, green computing started to incorporate messenger customer arrangements, vitality cost, bookkeeping, virtualization rehearses, e-Waste, and so on.  
For a PC move, it is essential to know it everything to know to be locked in with green figuring. Basically, the "whole green point came about a huge number quite a while back when the news that the earth was not a boundless resource really hit home and people started understanding that they expected to do their part to verify nature".  
In a general sense, the beneficial usage of PCs and handling is what green registering is about. The triple essential concern is what is critical with respect to anything green and the proportionate goes for green computing.
- 2. Green Computing Strategies - Key objectives:**  
Core objectives for a Green Computing Strategy could include:  
• Minimizing energy consumption  
• Purchasing green energy  
• Reducing the paper and other consumables used  
• Minimizing equipment disposal requirements  
• Reducing travel requirements for employees/customers".

**2. Approaches to Green Computing**  
These days so as to accomplish social mindfulness and advancement of green innovation arrangements, principle four integral methodologies are utilized:  
(i) Green Use  
(ii) Green Disposal

Reason	Percentage of respondents
Reduce company energy costs	74%
Extend useful life of hardware	50%
Reduce IT maintenance activities	39%
Save money through waste disposal of non-toxic hardware	38%
Improve corporate image	37%
Reduce emissions thereby reducing respiratory problems, acid rain, smog and global climate change	31%
Reduce energy consumption for fan or not having sufficient energy from local utilities to meet needs	29%
Free up space on the datacenter floor	2%
Other	1%
None of the above not using green computing policies, solutions or systems	11%

CSI COMMUNICATIONS | MARCH 2020



## R&D - FACULTY PUBLICATION: MECH



Contents lists available at [ScienceDirect](#)

### Materials Today: Proceedings

journal homepage: [www.elsevier.com/locate/matpr](http://www.elsevier.com/locate/matpr)



---

### Experimental investigation on ultrasonic metal welding of copper sheet with copper wire using Taguchi method

V.P. Srinivasan\*, S. Balamurugan, B. Balakarthish, S. Devva Darshan, A.B. Dhanush Prabhu

*Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India*

---

ARTICLE INFO	ABSTRACT
<p><i>Article history:</i> Received 1 November 2019 Received in revised form 3 February 2020 Accepted 6 February 2020 Available online xxxx</p> <p><i>Keywords:</i> Ultrasonic metal welding Optimization Taguchi methodology ANOVA DAQ Weld strength</p>	<p>Ultrasonic metal welding (USMW) is a prominent solid state technology implied for bonding non-ferrous metals without utilizing filler materials. In USMW, the imperious mechanism is the solid state bonding which is achieved by plastic deformation and slip. Copper sheets bonded with Cu wires plays vital role in various applications like alternator, electrical and electronics industries, etc. This experimental work is being done to perceive the mechanism of the USMW process and also to find the optimal welding parameters like workpiece holding pressure, welding amplitude and welding duration for copper sheet to copper wire by Design of Experiment (DOE) adopting Taguchi methodological means to improvise the weldment strength. Moreover, L27 orthogonal array (OA) based on Design of Experiment to conduct sequence of experiments has been selected. Experiments were carried for 0.3 mm thick copper sheet with <math>\Phi</math> 1.2 mm Cu wire and the weldment strength for all the run were calculated employing data acquisition system (DAQ) tensile testing machine. The maximum weld strength is obtained for weld pressure – 4 bar, amplitude – 70 <math>\mu</math>m and weld time – 4 s. Results acquired from experimental work are validated by confirmation tests and the results are found to be in good.</p> <p>© 2020 Elsevier Ltd. All rights reserved. Selection and peer-review under responsibility of the scientific committee of the International Conference on Advances in Materials Research – 2019.</p>

**Mr. V. P. Srinivasan, and Mr. S. Balamurugan**, Assistant Professors, Department of Mechanical Engineering along with the **Final year student team** comprising of **B. Balakarthish, S. DevvaDarshan, A. B. Dhanush Prabhu** have published a paper entitled ‘**Experimental investigation on ultrasonic metal welding of copper sheet with copper wire using Taguchi method**’ in Materials Today: Proceedings – A Scopus Indexed journal.

## R&D - FACULTY PUBLICATION: MECH

*Materials Science Forum*  
 ISSN: 1662-9752, Vol. 979, pp 58-62  
 © 2020 Trans Tech Publications Ltd, Switzerland

Submitted: 2019-05-04  
 Revised: 2019-07-30  
 Accepted: 2019-08-02  
 Online: 2020-03-03

### Experimental Investigation of Chemical and Tensile Properties of Sansevieria Cylindrica Fiber Composites

Balaji N.<sup>1a</sup>, Balasubramani S.<sup>2,b\*</sup>, Ramakrishnan T.<sup>3,c</sup>, Sureshbabu Y.<sup>4,d</sup>

<sup>1</sup>Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore - 641008, India

<sup>2,3,4</sup>Department of Mechanical Engineering, Sri Eshwar College of Engineering, Coimbatore - 641202, Tamilnadu, India

<sup>a</sup>e-mail: rajbalaji2001@gmail.com, <sup>\*b</sup>e-mail: balumecadcam@gmail.com,

<sup>c</sup>e-mail: ramakrishnankct@gmail.com, <sup>d</sup>e-mail: sureshbabumech08@gmail.com

**Keywords:** Sansevieria cylindrica fiber, Polyester resin, Hand lay-up technique, Chemical test, Tensile strength.

**Abstract.** The natural fiber reinforced composites are least expensive material and alternative material of wood, plastic material for the construction and industrial applications. The polymer based composites are used to fabricate the automobile components. The present investigation the composite materials reinforced with sansevieria cylindrica fibers were fabricated. These fibers were used because of their impressive mechanical properties. The composite panels are fabricated by hand lay-up technique. Sansevieria cylindrica fibers and polyester resin to produce the composite material. Sansevieria cylindrica plant has each leaf 20 to 30mm thickness and height 1000 to 2000mm approximately. The chemical tests of fiber and tensile strength for different fiber length composites such as 10mm, 20mm, 30mm, 40mm, & 50mm are determined.

**Dr. N. Balaji**, Professor, Department of **Mechanical Engineering** published a paper entitled '**Experimental Investigation of Chemical and Tensile Properties of Sansevieria Cylindrica Fiber Composites**' in Material Science Forum – Trans Tech Publication Ltd., Switzerland which is a SCOPUS Indexed journal.



## EEE - CREATIVE DOODLE



**K.KAVIYA SHREE**

**III EEE B**

## SKCET IN MEDIA: ICT ACADEMY AWARDS 2020




10/14


## ஸ்ரீகிருஷ்ணா பொறியியல் கல்லூரிக்கு மூன்று தேசிய விருது

கோவை,மார்ச்12- கோவை குனியமுத்தூரில் உள்ள ஸ்ரீகிருஷ்ணா பொறியியல் மற்றும் தொழில்நுட்ப கல்லூரிக்கு மூன்று தேசிய விருதுகள் கிடைத்தது. ஐ.சி.டி அகாடமி நிறுவனம் சார்பில் ஐ.சி.டி இணைப்பு சந்திப்பு 2020 நிகழ்ச்சி சென்னையில் நேற்று நடந்தது. இதில் 232 கல்லூரிகள் பங்கெடுத்த போட்டியில் தொழில் நிறுவனங்களுடன் அதிக தொடர்பு உள்ள கல்வி நிறுவன விருது ஸ்ரீ கிருஷ்ணா பொறியியல் மற்றும் தொழில்நுட்ப கல்லூரிக்கு கிடைத்தது. அமேசான் நிறுவனத்துடன் இணைந்து நவீன தொழில் நுட்பங்களை ஆசிரியர்கள் மற்றும் மாணவர்களுக்கு அதிக அளவில் சிறப்பாக மற்றும் பயன் உள்ளதாக விழிப்புணர்வு ஏற்படுத்தி கற்றுக் கொடுத்தற்காக தேசிய கிளவ்ட் சாம்பியன் 2019 விருது வழங்கப்பட்டது. அதேபோல சிறந்த பேராசிரியர் ஒருங்கிணைப்பாளர் விருதை தொழில்நுட்ப தலைவர் கசிலா வென்றார். சுமார் 500 பேராசிரியர்கள் பங்கேற்ற போட்டியில் இந்த விருது அவருக்கு கிடைத்தது. விருதுகளை முதல்வர் ஜேனட் பெற்றுக் கொண்டார். விருது பெற்ற முதல்வர் ஜேனட், பேராசிரியர்கள் மாணவர்களை கோவை ஸ்ரீகிருஷ்ணா கல்வி குழும நிர்வாக அறங்காவலர் மலர்விழி, முதன்மை நிர்வாக அதிகாரி சுந்தரராமன் ஆகியோர் பாராட்டினர்.



ஐ.சி.டி அகாடமி நிறுவனம் சார்பில் ஐ.சி.டி இணைப்பு சந்திப்பு 2020 நிகழ்ச்சியில் மூன்று தேசிய விருதுகளை ஸ்ரீகிருஷ்ணா பொறியியல் மற்றும் தொழில்நுட்ப கல்லூரி பெற்றது.



**RE-CELEBRATIONS: TCS CONNECT 2019 - XR HACKATHON**



Two students from the Department of **Mechatronics Engineering** participated in the **CONNECT 2019 - XR Hackathon** conducted by TCS Chennai on 17.10.2019 and have won the **Third prize** with a cash prize of **Rs. 2 Lakhs**. It was a National event in which 100 Teams participated. **Thiru. R Udayakumar**, Hon'ble Minister of Information Technology, Tamil Nadu, **Mr. Vijayakumar**, CEO-HCL Technologies and **Mr. Santhosh Babu**, I.A.S felicitated the winners on 8.11.19.

<b>Team Name</b>	Nxt Gen
<b>Project Title</b>	Extended Reality
<b>Team Members</b>	1. Mr. Shibin Thomas S. - II MCT B 2. Mr. Prawin Shankar T. A. - II MCT B
<b>Mentors</b>	1. Mr. Manikandan.N, AP/MCT 2. Mr. Vignesh. T, AP/MCT

## INSTITUTIONAL TRENDING ACCOLADE



**Sri Krishna College of Engineering and Technology** is declared as 'The **Best Engineering College in 2019**' for the outstanding and exemplary contribution towards education, skill development and research at the 12th Rashtriya Shiksha Gaurav Puraskar Ceremony by **Centre for Education Growth and Research (CEGR)**. SKCET feels privileged to be **recognised yet again with this top honour** by the leading Education Think Tank organisation of India. The award is bestowed for the fruitful accomplishments of SKCET towards imparting qualitative, innovative and employability-enhancing education.



## UPCOMING EVENT: ACTIVITY DAY-EEE



### SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY



*(An Autonomous Institution, Affiliated to Anna University,  
Chennai, Accredited by NAAC with 'A' Grade)*

The Department of Electrical and Electronics Engineering cordially invites you to participate in the Saturday Activities on 14/03/2020.

#### **PEN IT DOWN**

Are you good at writing? Then 'Pen it Down' is the ultimate stop for you. Jot down your thoughts on paper and feel the pleasure of writing!

#### **THE CUCKOO'S CALL**

Music has no language. The only language is that from your heart. A soulful rendering is what we are looking for. All those with the CUCKOO'S voice...-this is your call!

#### **TECHNICAL CONNECTIONS**

Observing is hard. But connecting is a tough art to master. Linking is what nature believes in and that's what we believe you can do. So come on, let's connect...

#### **POSTER DESIGN**

If impressing people with art is your interest and strength, then please do join us for the Poster Design event...

#### **HACK AND CRACK (Circuit Designing)**

If you want to prove your engineering skills, then join us for the circuit design event. Here you create and explore your skills together!

#### **TREASURE HUNT**

Search and you shall find! Bring out your team spirit to find out the clues and zero down on the result before the time races out!

## UPCOMING EVENT: ACTIVITY DAY-MECH

### INDUSTRIAL VISIT – SECOND YEAR MECHANICAL ENGINEERING

CLASS	Session	Event	Faculty In-Charge
II MECH B	FN	Industrial Visit – Prakash Gear, Coimbatore.	Dr.Balasubramanian Mr.S.Vignesh
II MECH C			Mr.M.Vignesh Kumar Mr.R.Arun Kumar

### PROJECT REVIEW – THIRD YEAR MECHANICAL ENGINEERING

CLASS	Session	Event	Faculty In-Charge
III MECH A	AN	Mini Project Review	Mr.S.Balu Mahendran Mr.S.Ranjith Kumar Mr.S.Pranesh
III MECH B			Mr.Dhiyaneshwaran Mr.R.Arun Bharathi Mr.Krishnamoorthi
III MECH C			Mr.S.Karthick Mr.A.Rajesh Mr.GunaSekaran