

# SKCET Buzz



2<sup>nd</sup> – 8<sup>th</sup> April 2022



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## STUDENT PROGRESSION



## MECH | CATERPILLAR IDP-IIT MADRAS CONTEST



CATERPILLAR®



CAT

Summary

- The given problem was coined to monitor chassis for "CARGO SHACMAN-X3000".
- The chassis was designed and analysed using ANSYS, the critical point is detected and the will be mounted on the critical point.
- Vibration analysis was done using MATLAB to determine the vibrations in chassis and it w to eliminate unwanted bumps, potholes and other obstacles on the road.
- The sensor reading was injected into the vehicles CANBUS for further processing by the D
- On detecting the price deterioration, it will be indicated to the drivers cabin via LED and buz



Student team **Golden Falcon** from **Third** year **Mechanical Engineering** has submitted their innovative Industrial Project entitled "**Chassis Health Monitoring System**" in the Caterpillar IDP Challenge 2.0 organized by IIT Madras on 31.03.2022.

### Team Members:

- S. JavidFirnas
- S. Sujith
- R. Raj Vigneshwar

**Team Mentor:** Dr.R.Soundararajan, Associate Professor Mechanical Engineering.

# MCT | SAUR URJA VEHICLE CHALLENGE 2022



**K.V.Deepak, A.Dheeraj, Poorvasanthiya, Rakesh Sundaram, Udayasri and Tharun Kumar C** students of **Second year MCT** have secured AIR 3 and have also won the Innovation Award in the National Level Solar Electrical Vehicle Competition **“SAUR URJA VEHICLE CHALLENGE 2022-OVPR”** conducted by Refrangible Society of Technophile Engineers.

## ECE | IEEE – PROJECT RECOGNITION

4/4/22, 8:55 AM

Sri Krishna College of Engineering and Technology Mail - EPICS in IEEE Approval and Acceptance Packet Assignment Notification



Albert Raj A <albert@skcet.ac.in>

### EPICS in IEEE Approval and Acceptance Packet Assignment Notification

EPICS in IEEE <administrator@grantinterface.com>

Sun, Apr 3, 2022 at 10:12 PM

Reply-To: s.gillespie812@gmail.com

To: albert@skcet.ac.in

Cc: a.f.moran@ieee.org

Dear Albert,

Congratulations! You have been awarded \$1,100.00 for your Environment friendly and Efficient Honey Harvest Alert System for Bee Farms project!

**A.Calin, K.Akshaya and A.R.Arunachalam** students of **Third** year **ECE** have been awarded \$1100.00 USD for an Environment friendly and Efficient Honey Harvest system for bee farming project from IEEE's United Engineering Foundation Competition 2022. **Dr A Albert raj**, Professor, **ECE** was the project coordinator of the team.





## STUDENT CERTIFICATIONS

# IT|AWS ACADEMY CLOUD FOUNDATIONS





## IT|AWS ACADEMY CLOUD FOUNDATIONS

Following students from **Third** year **IT A** have been certified for successfully completing **"AWS Academy Graduate - AWS Academy Cloud Foundations"** on 04.01.2022.

Abinaya	Abirami
Abishek	Akshayaa D
Anbarasu	AntroSafin
AnuGaythri	BalajiYaswanth
Balamurugan	Chandru S
Deenathayalan	Devinraj
Divesh	Divya
Ezhilvanan	Gayathri J S
Gokul Krishnan	Gokul R
Harini	Ilakiya
AncySneha	Dharaneesh
Aravind	Dharan Kumar
Girijesh	GokulAnandh
Ajith Kumar	Abishek R
Guru Prasanth	DhanaKrishnaMoorthy
Jaisree	Janani



## EVENTS

## S&H | DST-SHRI BOOK RELEASE



A book entitled "**AKKAMA – THE BRAVE HEART OF THE BLUE MOUNTAINS**" was released by the **Mayor of Coimbatore Mrs. Kalpana Anandakumar** on 06.04.2022.

The book was authored by **Dr. A.Amutha** and **Dr.A.Karthika** Associate Professors from the Department of **Science and Humanities** of Sri Krishna College of Engineering and Technology which is a part of DST-SHRI project. **Dr.V.Ragavi**, Head of Department of **Science and Humanities** felicitated the Mayor with a bouquet. Dr.A.Amutha as Principal Investigator and Dr.A.Karthika as Co- Principal Investigator of the project presented a shawl to the Mayor.

This book is exclusively about the first tribal women **Mrs. Akkamma Devi** who entered the Parliament and worked tirelessly for the welfare of the women. It is highly enriching factor that this book has been released by the first women Mayor of Coimbatore Mrs.Kalpana Anandakumar



# CSBS| FDP ON DATA MINING & ANALYTICS

**Simple and Multiple Regression Analysis**

5.5 ⇒ SSE = The amount of estimation error for the 8 sample families when using simple regression (i.e., a regression model that includes only information about family size).

Can we reduce the amount of estimation error (SSE) to an even lower level and, thus, improving the estimation process? How?

**Multiple Regression Model for our Example**

$\hat{y} = a + b_1x_1 + b_2x_2$

Formulas are available for computing values of  $a$ ,  $b_1$  and  $b_2$ .

MULTIPLE REGRESSION MODEL FOR OUR EXAMPLE:

$\hat{y} = 482 + 63x_1 + 216x_2$

Let's now see how much error in estimation we are committing by using this multiple regression model.

Faculty Development Program on “**Data Mining and Analytics**” was conducted by Tata Consultancy Services on 29.03.2022 for the faculty members. **Mr. Mageshwaran B.J**, TCS and **Dr. Swagatham Das**, HoD, Electronics and Communication Sciences Unit, Indian Statistical Institute, Kolkata were the Resource People. **Mr. R. YasirAbdulah**, Assistant Professor, **CSBS** attended the event representing our Institution.

## CSBS| FDP ON INFORMATION SECURITY



Tata Consultancy Services conducted Faculty Development Program on “**Information Security**” on 30.03.2022 for the faculty members handling the course all over India. The event was facilitated by **Mr. Mageshwaran B.J**, TCS. **Dr. SubhamoyMaitra**, Professor, Applied Statistics Unit, Indian Statistical Institute, Kolkata was the resource person. He gave insights on the syllabus and asked suggestions from the faculty representatives. **Dr. S. OswaltManoj**, Assistant Professor, **CSBS** attended the event representing our Institution.

## DO YOU KNOW?



# ECE | IMPACT OF IOT IN UPCOMING ERA



Department of **Electronics and Communication Engineering** organized a webinar on "**Impact of IoT in upcoming era**". **Mr. Pratheep**, Application Engineer, CADD Technologies, Coimbatore was the Resource Person. Industrial Revolution, Machine to Machine Communication, Platforms of IOT, IoT Communication Protocol and IoT Trends were the session highlights.





## RESEARCH & DEVELOPMENT

## R&D | JOURNAL PUBLICATION | EEE



**Dr. Ramji Tiwari,** Assistant Professor, **EEE** has published a paper entitled **“A comprehensive review of the prospects for rural electrification using stand-alone and hybrid energy technologies”** in **Sustainable Energy Technologies and Assessments** with an Impact Factor: 5.353. It is SCI & Scopus indexed.  
DOI: <https://doi.org/10.1016/j.seta.2022.102155>.

## R&D | JOURNAL PUBLICATION | EEE

**Dr. B. Karthikeyan,** Associate Professor, **EEE** has published a paper entitled **“Nano scale grapheme plasmonics logic gate based on the plasma dispersion effect”** in **Optical and Quantum Electronics** with an Impact Factor: 2.084. It is SCI & Scopus indexed.  
DOI: <https://doi.org/10.1007/s11082-022-03660-5>



## R&D | PATENT PUBLICATION | MCT

**Ms.J.Indirapriyadharshini,**  
Associate Professor, **MCT** has published a patent titled **"Automatic Oxygen Monitoring System for Closed Air Conditioning"** with the Application number 20224101252 A in the IPR Journal on 25.03.2022.

(12) PATENT APPLICATION PUBLICATION (19) INDIA (22) Date of Filing of Application: 02/03/2022	(21) Application No: 20224101252 A (41) Publication Date: 25/03/2022
(54) Title of the invention: AUTOMATIC OXYGEN LEVEL MONITORING SYSTEM FOR CLOSED AIR CONDITIONING AREAS	
(31) International classification: F24F01/1300000, B01D09/51020000, F24F01/1620000, F24F01/1510000, F24F01/1000000	(71) Name of Applicant: JINDIRAPRIYADHARSHINI Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF MECHATRONICS ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE. JAZHAGAMURIGAN R. JIDRASANJEEVI GANDHI 4R.GOKILA 5I.SIVARANJANI
(56) International Application No: PCT/01.01/1900	Name of Applicant: NA Address of Applicant: NA
(57) International Publication No: NA	(72) Name of Inventor: JINDIRAPRIYADHARSHINI Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF MECHATRONICS ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE. JAZHAGAMURIGAN R.
(61) Patent of Addition to Application Number: NA Filing Date: NA	Address of Applicant: ASSOCIATE PROFESSOR, DEPARTMENT OF EEE, SRI SABRAM ENGINEERING COLLEGE, WEST TAMBARAM, CHENNAI.
(62) Divisional to Application Number: NA Filing Date: NA	JIDRASANJEEVI GANDHI Address of Applicant: ASSOCIATE PROFESSOR, DEPARTMENT OF EEE, SRI SABRAM ENGINEERING COLLEGE, WEST TAMBARAM, CHENNAI.
	4R.GOKILA Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF ECE, TAMILNADU COLLEGE OF ENGINEERING, COIMBATORE.
	5I.SIVARANJANI Address of Applicant: ASSISTANT PROFESSOR, DEPARTMENT OF EEE, VSB COLLEGE OF ENGINEERING TECHNICAL CAMPUS, COIMBATORE.
(57) Abstract Human activities are increasing the level of carbon dioxide in the atmosphere. Pollution is more prevalent in enclosed spaces with air conditioners. A closed area with an air conditioner is made up of oxygen-depleted air because air conditioners do have air purifiers, but they only partly contaminants in the air through filters. They do not detect any oxygen level in the air inside a closed area. With improvements in sensor and control technology, air quality is now determined by the level of CO2 in a space. Therefore, a building can have no minimum outside air requirements. When CO2 levels in space rise too high, this equipment will activate an alarm so that people are warned up. This is frequently used in commercial and public buildings such as classrooms, offices, etc.	
No. of Pages - 12 No. of Claims - 8	

## R&D | JOURNAL PUBLICATION | EEE

Sustainable Energy Technologies and Assessments  
Volume 52, Part B, August 2022, 102988

### 3-Phase multi-inverter with cascaded H-bridge inverter designing and implementation for renewable system

S. Jayaprakash<sup>a</sup>, A. R. B. Balamurugan<sup>b</sup>, S. Gopinath<sup>c</sup>, T. Kokilavani<sup>d</sup>, S. Maheswaran<sup>e</sup>

<sup>a</sup> School of Electrical and Electronics Engineering, Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, India  
<sup>b</sup> Department of Electrical and Electronics Engineering, K.S.Rangasamy College of Technology (Autonomous), Tiruchengode, Tamil Nadu, India  
<sup>c</sup> Department of Electrical Engineering, Annasaheb Dange College of Engineering and Technology (Autonomous), Adra, Maharashtra, India  
<sup>d</sup> Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology (Autonomous), Coimbatore, Tamil Nadu, India  
<sup>e</sup> Department of Electronics and Communication Engineering, Kongu Engineering College (Autonomous), Perundurai, Tamil Nadu, India

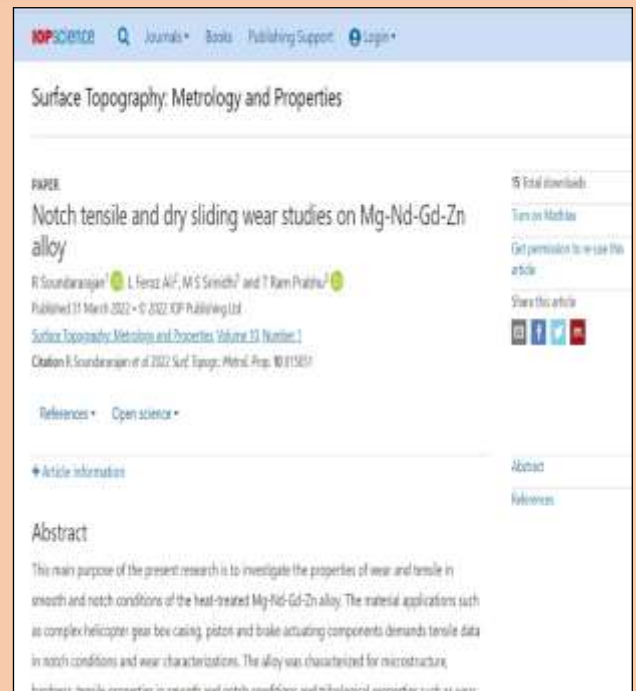
Received 29 October 2021, Revised 1 February 2022, Accepted 13 February 2022, Available online 1 April 2022.

**Dr.T.Kokilavani,** Assistant Professor, **EEE** has published a paper entitled **"3-Phase multi-inverter with cascaded H-bridge inverter designing and implementation for renewable system"** in Sustainable Energy Technologies and Assessments (Elsevier) with an Impact Factor of 5.353.



## R&D | JOURNAL PUBLICATION | MCT

**Dr.L. Feroz Ali**, Associate Professor, **MCT** has published a journal entitled **"Notch Tensile and Dry Sliding Wear Studies on Mg-Nd-Gd-Zn Alloy"** in **Surface Topography: Metrology and Properties**, IOP Journal with an impact factor of 2.038.



## R&D | ARTICLE PUBLICATION | MECH

Hindawi  
Advances in Materials Science and Engineering  
Volume 2022, Article ID 5413184, 4 pages  
<https://doi.org/10.1155/2022/5413184>



### Research Article

#### Investigation on Corrosion Behaviour of LM25-SiCp Composite Using Taguchi Method

R. Suresh Kumar<sup>1</sup>, S. Senthil Kumar<sup>2</sup>, C. Rajendran<sup>3</sup>,  
Samson Jerold Samuel Chelladurai<sup>4</sup> and Girachew Balcha<sup>5</sup>

<sup>1</sup>Department of Mechanical Engineering, Sri Eshwar College of Engineering, Coimbatore, Tamil Nadu, India  
<sup>2</sup>Department of Mechanical Engineering, JRM College of Engineering and Technology, Paluvayal, Tamil Nadu, India  
<sup>3</sup>Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore 641008, India  
<sup>4</sup>Department of Chemical Engineering, College of Biological and Chemical Engineering, Addis Ababa Science and Technology University, Addis Ababa, Ethiopia

Correspondence should be addressed to R. Suresh Kumar; rs777mech@gmail.com and Girachew Balcha; girachew.balcha@sau.edu.et

Received 10 January 2022; Revised 4 March 2022; Accepted 18 March 2022; Published 30 March 2022

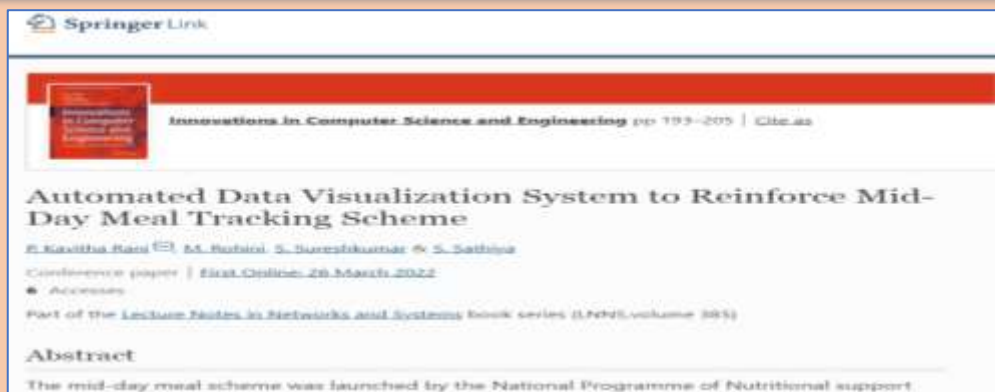
Academic Editor: Michele Feddi

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The aim of this investigation is to optimize the process parameters to obtain minimum corrosion rate and weight loss of Al/SiCp metal matrix composites. A Taguchi based grey relation analysis was carried out. The process parameters such as number of hours dipped in 3% NaCl solution, vol.% of SiCp and aging at 170°C for hours were considered. The working range of each process parameters were fixed based on minimum weight loss and low corrosion rate. The test was carried out using Taguchi based grey relationship analysis. Three factor three level 19 orthogonal array was used and output responses such as weight loss and corrosion rate were calculated. Based on the grey relationship analysis, the rank of each process parameters was calculated. Based on the F value, the vol. % of SiCp (38.42%) on the metal matrix composite followed by number of hours samples immersed in 3% NaCl solution (35.3%) and aging at 170°C for hours (25.78%) were found as influencing parameters on corrosion rate and weight loss. The surface of corroded samples was investigated and reported.

**Dr.C.Rajendran** and **Dr. C. Samson Jerold Samuel**, Associate Professors, Department of **Mechanical Engineering** have published a scientific research article titled '**Investigation on corrosion behavior of LM25-SiCp composite using Taguchi method**' in **Advances in Materials Science and Engineering - A Hindawi** publication. It is a WoS and Scopus Indexed Journal with an impact factor of 1.726.

## R&D | JOURNAL PUBLICATION | M.TECH CSE



**Dr.P. Kavitha Rani**, Professor & Head, Department of **M.Tech CSE**, along with **Mr.S.Sureshkumar** and **Mrs. M.Rohini**, Assistant Professors, **M.Tech CSE**, have published a paper entitled "**Automated Data Visualization System to Reinforce Mid- Day Meal Tracking Scheme**" in Innovations in Computer Science and Engineering. This is a Lecture notes in Network and systems Springer book series (LNS, Volume 385). DOI: [https://doi.org/10.1007/978-981-16-8987-1\\_21](https://doi.org/10.1007/978-981-16-8987-1_21).

## R&D | JOURNAL PUBLICATION | CSE



**Dr.P.Mohan Kumar**, Professor, **CSE** has published a paper entitled "**Implementing an Efficient Data Deduplication Framework for Cloud Storage**" in the Indian Journal of Computer Science and Engineering. It is a Scopus indexed Journal. ISSN: 0976-5166. DOI: <https://doi.org/10.21817/indjcse/2022/v13i1/221301046>.







## TRAINING & PLACEMENT

## PLACEMENT | TESTIMONIAL BY PLACED STUDENTS



Choosing SKCET was one of the best decisions I have ever made. I am grateful to be taught by excellent faculty members who supported at each and every step. Also, I would like to thank the placement team for their immense support, and encouraging me during tough times. I am lucky to be part of this great Institution. The various trainings and mentoring guided me to get placed in Cognizant Technologies. Four years in SKCET was just fantastic and a memorable one.

**Fazil Mohammed.T**

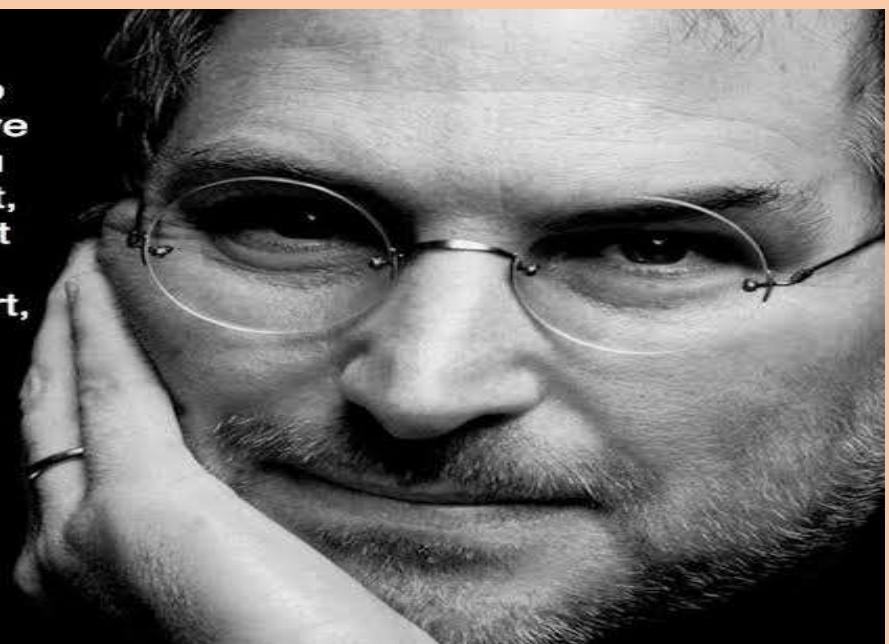
**EEE [2022Batch]**

**Cognizant Technology solutions -4 LPA**

## LEGENDARY INSIGHTS

“The only way to do great work is to love what you do. If you haven't found it yet, keep looking. Don't settle. As with all matters of the heart, you'll know when you find it.”

- Steve Jobs





## TUTOR WARD MEETING



## CIVIL | CLASS COMMITTEE MEETING – III YEAR



**Class Committee Meeting** was conducted for the **Pre-final** year **Civil Engineering** students by **Dr. N. Balaji**, Associate Professor, Department of **Mechanical Engineering** on 31.03.2022. The pointers of discussion were: Hostel accommodation and transport facilities, Subjects and laboratory sessions, placement training sessions and academic activities.

## INFOGRAPHICS

# FIGURATIVE LANGUAGE

### Simile

A simile is a type of figurative language which is used to compare one thing against another. Similes compare the likeness of two things and often feature the words 'like' or 'as': "As strong as an ox/ As brave as a lion."

### Metaphor

A metaphor is a phrase describing something as something it is not in reality. It is used to compare two things symbolically. A metaphor literally describes something as something it is not. "Love is a battlefield"

### Oxymoron

An oxymoron is a term which features two words which appear to contradict each other but make sense of the situation overall.

- For example: That woman is pretty ugly.

### Hyperbole

A hyperbole is a figure of speech which exaggerates the meaning of a sentence.

- For example: My granddad is as old as time.

### Idiom

An idiom is a phrase which bears no literal meaning to the situation it is describing but it implies the facts or story behind it.

- For example: There is a silver lining in every cloud.

### Personification

Personification is a type of figurative language. It is used to give an inanimate object or item a sense of being alive. The speaker would talk to the object as if it could understand and was intelligent.

- For example: Why are you so heavy, suitcase?



## FACULTY CERTIFICATIONS

# MECH| FDP ON MODERN MATERIALS, ADVANCED TECHNOLOGIES FOR INFRASTRUCTURE & MODELLING OF MECHANICAL BEHAVIOR OF COMPOSITE MATERIALS



**Mr.J.Baskaran, Mr.S.Balamurugan, Mr.J. Dhiyaneshwaran, Dr.R.B.Manoram and Mr. R. Siva Subramanian, Assistant Professors, Mechanical Engineering** have actively participated in an online Faculty Development Program on **'Modern Materials, Advanced Technologies for Infrastructure & Modelling of Mechanical Behavior of Composite Materials'** organized by Vel Tech High Tech College, Chennai from 14.03.2022 to 19.03.2022.



## MECH| FDP ON MICROSOFT AZURE DATA FUNDAMENTALS



**Mr.R.Siva Subramanian, Mr.S.BaluMahandiran and Mr.J.Baskaran,** Assistant Professors, Department of **Mechanical Engineering** have actively participated in the Faculty Development Program on '**Microsoft Azure Data Fundamentals**' conducted by ICT Academy from 28.03.2022 to 30.03.2022

## CSBS|MATHWORKS CERTIFICATION



**Mr.M.Manicka Raja,** Assistant Professor, CSBS has successfully completed a certification course on **Machine Learning Onramp** offered by **MathWorks** on 06.04.2022.

## CSBS|JURY PANELIST



**Dr. S. Balakrishnan**, Professor and Head, Department of **Computer Science and Business Systems** has been the **Jury Panelist** in “**South Indian ASDF Awards - SIAA 2022**” hosted by the ASDF South India Chapter on April 2 2022.

## CSE| BIG DATA ANALYTICS AND MACHINE LEARNING



**Mr.M.Vengateshwaran**, Assistant Professor, **CSE** has participated in the one week FDP on “**Big Data Analytics and Machine Learning**” conducted by the Department of Information Science and Engineering, East Point College of Engineering and Technology, Bengaluru from 26.03.2022 to 01.04.2022 .

## IT| MICROSOFT AZURE DATA FUNDAMENTALS



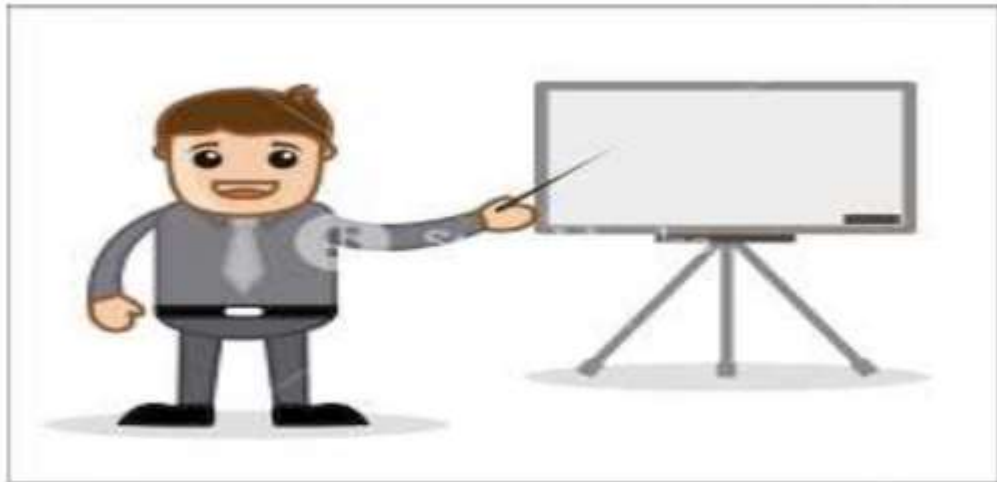
**Ms.Sruthi Anand**, Assistant Professor, Department of **Information Technology** has participated in the Faculty Development Program on **“Microsoft Azure Data Fundamentals”** conducted by ICT Academy from 28.03.2022 to 30.03.2022.

## IT| INFOSYS SPRINGBOARD



**Mr.M Diwakaran**, Assistant Professor, Department of **Information Technology** has successfully completed a microsite during the Train the Trainer program on **“Creating Microsites Infosys SpringBoard”** conducted by Infosys Limited.





## CONFERENCE PRESENTATION

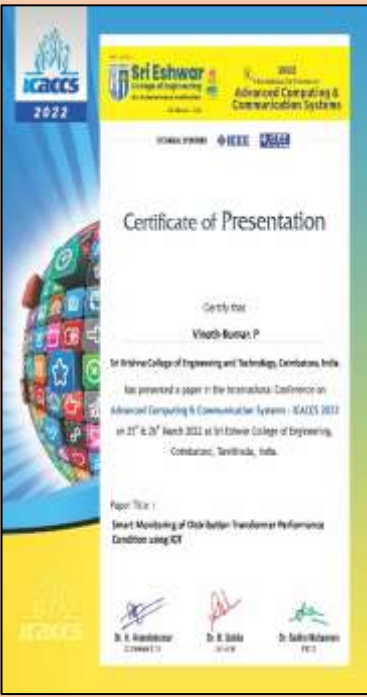
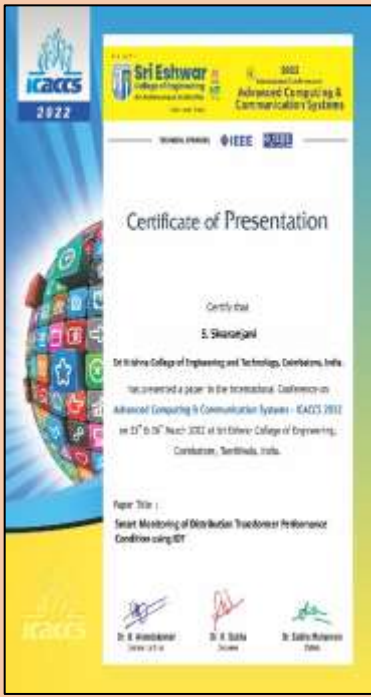
# CIVIL | CONFERENCE PRESENTATION



**Dr.D.Maruthachalam**, HoD, **Civil** along with **Mr.S.C.Boobalan**, Assistant Professor, **Civil Engineering** have presented their paper on **“Relevance Vector Machine Tools for Evaluating the Strength Parameters of HPC incorporating Quarry Dust and Mineral Admixtures with Fibres”** in the Second International Conference on Information Technology (InCITE) organized by Amity University, Uttar Pradesh held on 3<sup>rd</sup> and 4<sup>th</sup> of March 2022.

# EEE | CONFERENCE PRESENTATION

**Dr.S.Sivaranjani** and **Dr.P. Vinothkumar**, Associate Professors, **EEE** has presented a research paper entitled **“Smart Monitoring of Distribution Transformer Performance Condition using IoT”** in the IEEE Sponsored International Conference on Advanced Computing and Communication Systems (ICACCS) 2022 at Sri Eshwar College of Engineering, Coimbatore held on 25<sup>th</sup> and 26<sup>th</sup> March, 2022.



# CIVIL | CONFERENCE PRESENTATION



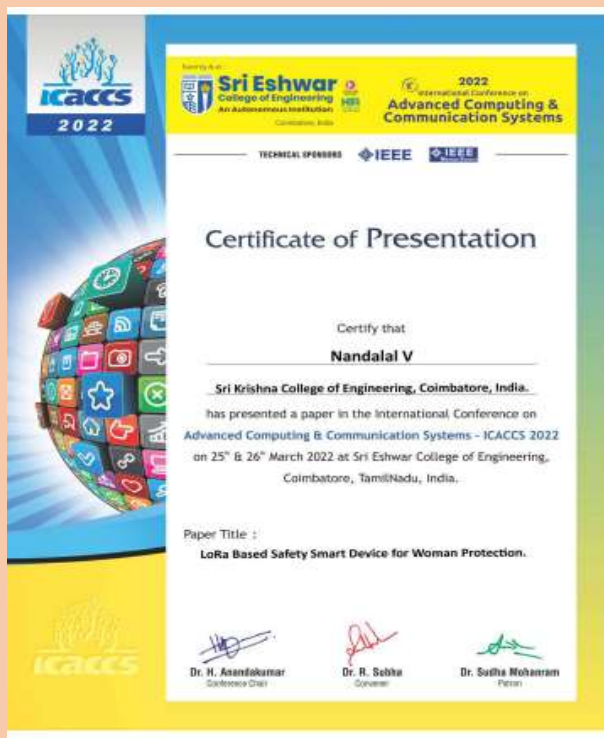


## CIVIL | CONFERENCE PRESENTATION

Following faculty members from the Department of **Civil Engineering** have presented their papers in the Second International Conference on **Sustainable Infrastructure with Smart Technology for Energy and Environmental Management** (SIC – SISTEEM - 2022) organized by Bannari Amman Institute of Technology, Sathyamangalam held during 24<sup>th</sup>& 26<sup>th</sup> March 2022.

Name of the authors	Title of the paper
Mr. S. Sadheesh	1) Effects of air Pollution due to vehicle emission in Coimbatore: A reduction strategies – A Review 2) Monitoring and analyzing the effect of heavy metals in air based on ecological and health risks in Coimbatore
Dr.P.Saravanakumar	Regur soil modification with construction and demolition waste – A review
Dr.S.Ramakrishnan	Investigation on durability study of fibre reinforced concrete
Mr.A. AswinBharath	Economically improving the quality of construction through six sigma and cost benefit analysis  <b>Second best Paper award under the theme smart and sustainable construction</b>

## ECE | CONFERENCE PRESENTATION



**Dr V Nandalal**, Professor, **ECE** has presented a paper titled **“Improved LoRa Based Safety Smart Device for Woman Protection”** in the International Conference on Advanced Computing and Communication Systems organized by Sri Eshwar College of Engineering, Coimbatore during 25<sup>th</sup> and 26<sup>th</sup>, March 2022.

## CSE | CONFERENCE PRESENTATION

**Mr.M.Vengateshwaran**, Assistant Professor, Department of **CSE**, has participated in the two days International Conference on **Machine Learning Applications in Applied Sciences and Mathematics (IVCMASM 2022)** and has presented a paper entitled **“Probabilistic Techniques for Location Based Services Using Computational Intelligence”**, Easwari Engineering College on 30.03.2022 and 31.03.2022.



# CIVIL | CONFERENCE PRESENTATION



**Mr.S.Sadheesh**, Assistant Professor, Department of **Civil Engineering** has presented a paper on the topic **“The relative impact of pollutant concentration in industries over the ambient air quality around the industrial zone SIDCO – Kurichi using spatial distribution”** in the International conference on **“Sustainable Practices and Advancements in Civil Engineering - 2022”** held at PSG Institute of Technology and Applied Research on 11<sup>th</sup> and 12<sup>th</sup> March 2022.

# TECHNOGRAPHICS

