

### 29<sup>th</sup> July - 04<sup>th</sup> August 2023

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TRANSPORTATION

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Sri Krishna College of Engineering and Technology VOL - 4, ISSUE 76 | 29<sup>th</sup>July - 04<sup>th</sup> August 2023

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29<sup>th</sup>JULY - 04<sup>th</sup>AUGUST 2023 | Weekly Newsletter

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# INSTITUTIONAL ACCOLADES

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# **SKCET | CERTIFICATE OF APPRECIATION**

भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING भारतीय अंतरिक्ष अनूसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION isro अंतरिक्ष विमाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA COR20231191653 बहि:परिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE यह प्रमाणित किया जाता है कि श्री कृष्णा इंजीनियरिंग व प्रौद्योगिकी कॉलेज ने भारतीय सुदूर संवेदन संस्थान, इसरो देहारादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठचकम जलवायु-स्मार्ट कृषि के लिए भू-स्थानिक प्रौद्योगिकी मे भाग लिया। इस ऑनलाइन पाठचकम का संचालन दिनांक 10 जुलाई, 2023 से 14 जुलाई, 2023 तक किया गया। This is to certify that Sri Krishna College of Engineering and Technology, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on Geospatial Technology for Climate Smart Agriculture. This online programme was conducted during July 10, 2023 to July 14, 2023 दिनाँक/ Date: 28-07-2023 समुह प्रमुख जियोवेब सर्विसेस, सचना प्रौद्योगिकी एवं दरस्थ अधिगम विभाग भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह देहरादून/ Dehradun Head, Geoweb Services, IT & Distance Learning Department, IIRS Group Head, Geospatial Technologies & Outreach Programme Group, IIRS SKCET conducted a training course on "Geospatial Technology for **Climate Smart Agriculture**" as a part of off-campus Outreach Certificate Programme organized by Indian Space Research Organization (ISRO), and Indian Institute of Space Sensing, Dehradun, in this regard SKCET

was highly appreciated by ISRO for effective conduct of the training

programme.



# SKCET | CIVIL & MCT - RESEARCH CENTER RECOGNITION | R&D



### Recognized Department/Institute/R&D Centre

			Search:	sri krishna	
SL.NO	COLLEGE	DEPARTMENT/INSTITUTE/CENTRE	CODE	VALID UPTO	
348	Sri Krishna College of Engineering and Technology, Coimbatore	Civil	4271805	June 2026	
349	Sri Krishna College of Engineering and Technology, Coimbatore	CSE	4271806	June 2024	
350	Sri Krishna College of Engineering and Technology, Coimbatore	ECE	4271807	December 2024	
351	Sri Krishna College of Engineering and Technology, Coimbatore	EEE	4271808	June 2024	
352	Sri Krishna College of Engineering and Technology, Coimbatore	Mech	4271817	June 2024	
353	Sri Krishna College of Engineering and Technology, Coimbatore	Mechatronics	4271818	June 2026	

We are exhilarated to share that Departments of **CIVIL ENGINEERING** and **MECHATRONICS ENGINEERING** are recognized as Research Centers by Anna University, Chennai to offer Ph.D and MS (by Research) programmes. This recognition also facilitates the development of new research initiatives in the cutting edge technologies.

"Research and Innovations are the pillars of growth and

development"



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### **SKCET | PRINCIPAL MADAM INTERACTION**



### **SKCET - COMPUTING FACULTY INTERACTION**

Principal Madam addressed the newly joined Computing departments faculty members on 4.8.2023 and motivated them to work with harmony and walk the extra mile to bring more accolades to the institution and also encouraged them to build up their profile strongly.

### "Alone we can do little; Together we can do much"



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## **CSE | CYBER SECURITY HACKATHON**



Two student teams from the Department of **Computer Science and Engineering** have been shortlisted for the Grand Finale of KAVACH 2023. **Team details**:

**Team 1:** Prithika Andrea Angelina F, Nagasundar N, Sneha Janarthanan, Mohana Prasad S, Mark Felix A, Maginesh U T

Mentors : Dr.V.K.Reshma , Dr.M.Rohini

**Team 2:** Rithik Raj K S, Jason Jose P, Siddhesh Agarwal, Johan Olivia A, Mrinalini K, Swamy Prasanna S J

Mentors: Dr.S.Oswalt Manoj, Ms.A.Priya, Mr.B.Shameer



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# **STUDENTS** CERTIFICATION

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### **AI&DS | STUDENT INTERNSHIP**

Microsoft India (R&D) Pvt. Ltd. Microsoft Campus, Gachibowli, Hyderabad- 500032 Microsoft Tel: +91-40-66930000 Fax: +91-40-66935593 http://www.microsoft.com/india

28-Jul-23

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Santhiya A from the Sri Krishna College of Engineering & Technology, Coimbatore has successfully completed her Internship in the "Experience & Devices" team under Microsoft India (R&D) Pvt. Ltd, Hyderabad from S-Jun-23 to 28-Jul-23. She has completed the Internship under the guidance of Nishu Bansal (Nibansal) and Kanthi Rekha Ashok (Krekha).

We wish her all the best in her future endeavors.

Yours Sincerely, For Microsoft India (R&D) Pvt. Ltd

17 la Ira Gupta

SR GEO HR DIRECTOR

nghioft India (R&D) Pvt. Ltd.

Signature of Candidate

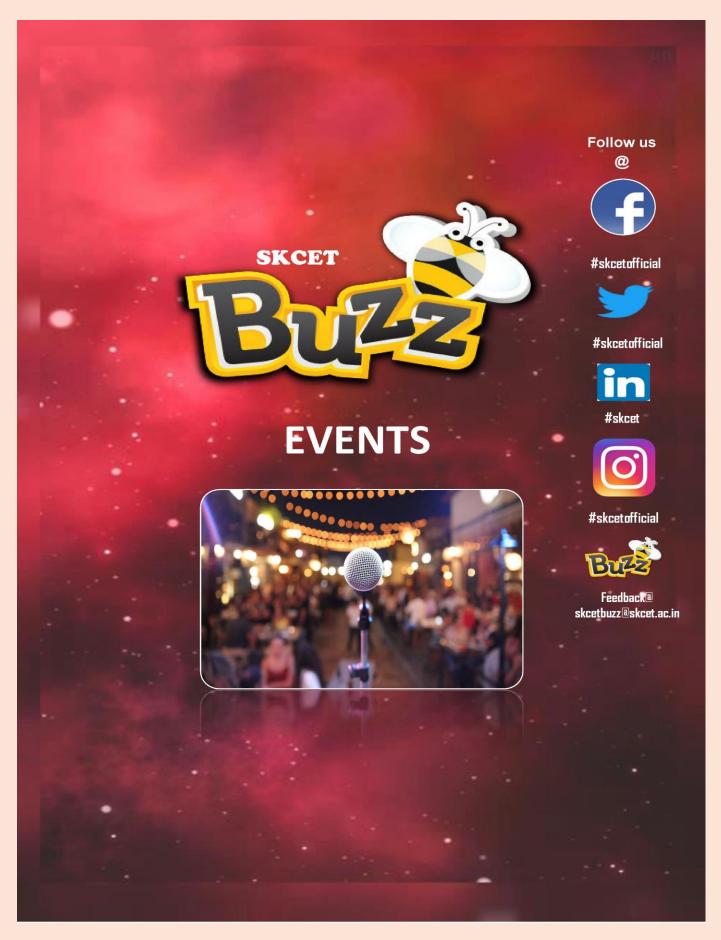
Registered Office: 807, New Delhi House, Barakhamba Road, New Delhi-110001. CIN: U72200DL1998PTC093824

Santhiya.A, student of Final year Al&DS has successfully completed her Internship at "Experience & Devices" team under Microsoft India (R&D) Pvt. Ltd, Hyderabad from 5<sup>th</sup> June 23 to 28<sup>th</sup> July 23. She has completed the internship under the guidance of Nishu Bansal (Nibansal) and Kanthi Rekha Ashok (Krekha).



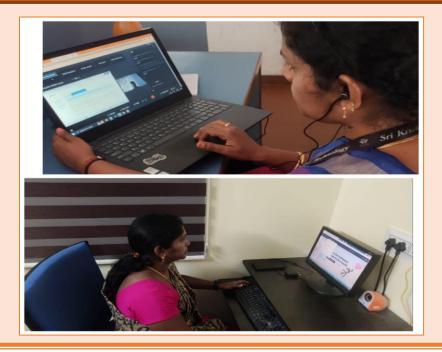
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## **M.TECH CSE |TECH4ALL**



**Dr.A.Pushpalatha**, Associate Professor, **M.Tech CSE** and **Dr.T.Sujatha** Associate Professor,**Al&DS**, have participated in **Five Days Tech4All** -**Mentor Training Program (MTP)** on **Microsoft Azure Al Program** by **Cognizant** conducted from 17<sup>th</sup> July 2023 to 21<sup>st</sup> July 2023. The program provided hands-on training to enhance the skills in Microsoft Azure Al. **Mr.Adil Yousuf**, Senior Technical Trainer, ICT Academy was the Resource Person.

### **Session Highlights:**

- Getting Started with Microsoft Azure and NLP.
- Developing AI Apps with Cognitive services.
- Building Speech-Enabled Applications.
- Conversational AI and the Azure Bot Service.
- Developing Custom Vision Solutions
- Detecting, Analyzing and Recognizing Faces.



## EEE | ROLE OF ZERO ENERGY BALANCE IN CONSERVATION



Department of **Electrical and Electronics Engineering** in association with **Energy Audit Cell** has conducted a Guest Lecture on the topic **'Role of Zero Energy Balance in Conservation'** for **EEE** students on 31.07.2023.

**Session Speaker:** Dr.R.Sivakumar, Energy Auditor, Pricol Limited, Coimbatore.

### **Session Highlights:**

- Self-consumption of PV production,
- Continuous HVAC operation,
- Tight set-points to create performance gap,
- Concept of 'post-carbon' in industrial sectors,
- Expanding the scale of zero energy performance.



## EEE | GOVERNING THE REALM OF ARTIFICIAL INTELLIGENCE



Department of **Electrical and Electronics Engineering** has conducted a Guest Lecture on the topic 'Governing the realm of **Artificial Intelligence'** for the Third year **EEE** students on 31.07.2023.

**Session Speaker:** Er.V.Gopi, Director - SKMT Electronics Private Limited, Chennai.

### **Session Highlights:**

- Natural language generation and speech recognition.
- New Insights on Application of machine learning, artificial intelligence and deep learning.
- ANN and Peer-to-peer network.
- Developing Robotic Process Automation at Industry level.



### **CSBS** | GENAI RUSH BUILDATHON



Student team from the Department of Computer Science and Business Systems has been selected in the Top 20 position among 500 teams of students, Academicians and Startup CEOs at GenAI RUSH Buildathon at We Work Bangalore organized by nexus Venture Partners and The Product Folks from 29.07.2023 to 30.07.2023

**Team Members**: Dhasagreevan.C, Arshath.K, Ethin Abinav.V,Kavin Prabhu.S **Mentor:** Dr.G.Ignisha Rajathi, ASP/CSBS



## **MCT| CAREER GUIDANCE PROGRAM**



Department of **Mechatronics Engineering** organized a **Career Guidance Program** on 02.08.23 "**Career opportunities after UG**" for the Third year students.

Resource Person: Mr.Siddarth, Manager, T.I.M.E Coimbatore briefed about,

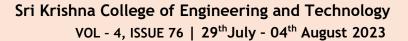
- Various career options after UG
- Competitive exams like CAT, GMAT, GRE, IELTS and eligibility.
- CAT training and classes
- Top B schools
- Job opportunities
- Public sector exam pattern and preparation



# **CSBS | ASPIRING ZONE MAGAZINE**



Department of **CSBS** has released its yearly magazine - **Aspiring Zone** in which the actual experience of the Department, with the Laurels and Accolades, sprays fragrance of uniqueness through the Prestigious Awards, Student Accolades in Hackathons, Faculty Achievements, Co-curricular and Extra-curricular Activities.





### MECH | NEP2020 EXPO



SKCET proudly displayed its best practices and innovations at the Ministry of Education's Mega Expo to celebrate the 3<sup>rd</sup> Anniversary of the National Education Policy (NEP) 2020 (Akhil Bhartiya Shiksha Samagam) held on 29<sup>th</sup> and 30<sup>th</sup> July 2023 at Pragati Maidan, New Delhi. Honourable Prime Minister of India **Shri. Narendra Modi** Ji inaugurated the event and addressed the gathering. The mega-event celebration had more than 12 thematic sessions, exhibitions and cultural programs. More than 200 selected early-stage startups, edutech growth stage startups, innovations and Institutions demonstrated their contributions and breakthrough innovation achievements towards achieving the overall goal as envisioned under the National Education Policy 2020. **Dr. P. Ashoka Varthanan**, Head & Professor, **Mr. N. Ramachandran**, Assistant Professor, Department of Mechanical Engineering participated in the expo.



### CSBS | SYSTRONS ASSOCIATION INAUGURATION



Department of **Computer Science and Business Systems** organized SYSTRONS Association Inauguration Ceremony for the academic year 2023-2024 on 27.07.2023.

**Chief Guest:** Dr. Gunasekaran Thangavel, Professor - Electronics & Communication Engineering, EEE Section, Department of Engineering in University of Technology and Applied Sciences, Muscat, Sultanate of Oman.

### Highlights of the Session:

- AI/ML and 5G/6G networks
- Weak Artificial Intelligence
- AURO Lab COBOTs
- Companies in Madurai, Coimbatore, Chennai incorporating Weak AI
- Mobile Phone Radiation
- LORAWAN
- Real time Problems awaiting solutions

The Magazine "**Aspiring Zone**" was released by the Chief Guest. The Office Bearers were inducted in their positions with badges and took up the Pledge. The Video on the Journey of CSBS in SKCET was showcased. The winners of the pre-event TECH CHARADES were honoured by the Chief Guest.



# **CSE| HOD INTERACTION**



**Dr. K. Sasi Kala Rani,** Professor and Head, Department of **Computer Science and Engineering**, addressed the **Final** year students. She appreciated the internship-offered students and deliberated the following points:

- Upcoming placement drives and its importance
- Maintaining decorum inside the campus and following proper dress code
- Training assessments and Practice tests.
- Attending the placement drives with sincere effort.
- Instructed the students to check their marks and other details in the Myklassroom web portal.



# CSBS| SYSTRONS ASSOCIATION INAUGURATION PRE-EVENT TECH



Department of **Computer Science and Business Systems** organized **Association Inauguration** pre event - **Tech Charades**, to reverberate the vibe of enriching the thought process of technical astounding terms with actions only on 26.07.2021.

#### Winners:

**First place:** Ashik Ahamed S- III year CSBS, Sricharan Sundar S-III year CSBS **Second place:** Bhagyasree PuthiyaPurayil-III year CSBS, Shrreya S R-III year CSBS

Third Place: Seshan Bharati S M-I CSBS, Thithiksha J-I CSBS



### EEE | HIGHER EDUCATION AFTER UG PROGRAMME



Department of **EEE** organized Awareness Seminar on **'Higher Education after UG Programme'** on 01.08.2023 for the Pre-final year EEE students.

**Resource Person:** Mr.S.Siddharth, Manager (Operations), T.I.M.E., Coimbatore.

### Session Takeaways:

- Selection Criteria for IIM & Non-IIM
- Top B Schools to pursue MBA
- Career after MBA
- Entrance to get into Premier Institutions
- Utilization of Online Resources
- CAT Exam Patterns and Syllabus
- On-Campus Coaching Protocols.



### MECH| HARVESTING OF ORGANIC GREEN CHILLY FROM POLYHOUSE



Department of **Mechanical Engineering** constructed **Smart Polyhouse** at our campus few months back and planted tomato and green chilly saplings on 02.08.2023. The team also harvested 28 kgs of organic green chili and handed over to our boys' hostel kitchen. This poly-house was constructed as the part of SEED project (Science Technology & Innovation Hub) funded by **DST – Government of India**. This is the team's second cycle of harvesting after their first cycle harvesting happened on 28.6.23.



# **IT| ELQ SCHOLARSHIPS PROGRAM**



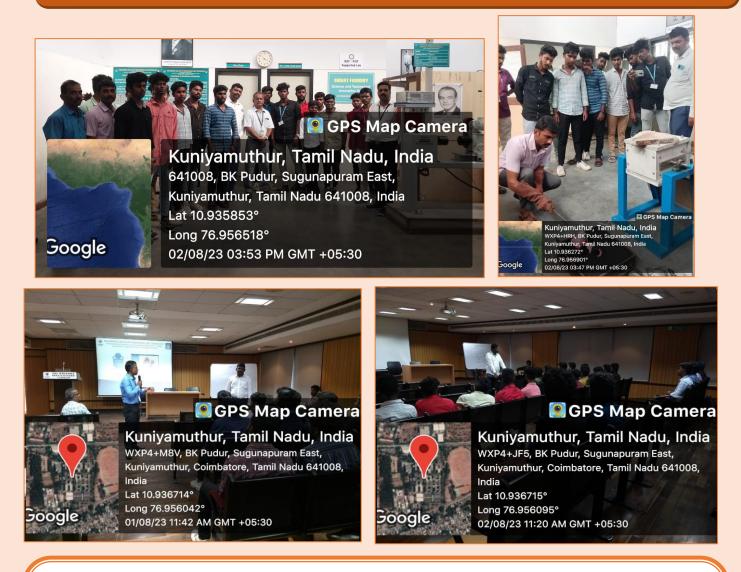
**Dr.N.Susila**, Professor, HoD - IT and **Dr. Prabha**, Professor, M.Tech CSE have attended ELQ scholarships program 2023-2024 conducted by Global Education and Careers on 27-07-2023, Coimbatore.

### **Session Highlights:**

- Free IELTS training through online.
- ELQ Exam scholarship.
- Studying in abroad opportunities and benefits.
- Addressed the benefits of the nominated and Enrolled students.



## MECH| SKILL DEVELOPMENT PROGRAMME ON SMART FOUNDRY



DST supported Skill Development Programme on **Smart Foundry** was organized on 1<sup>st</sup> and 2<sup>nd</sup> Aug 2023. Around 30 external participants attended the programme which was conducted in association with the Instrumentation Sector Skill Council. Overview of foundry industry, Basic training on Auto Cast simulation software, Hands on demonstration of pattern making, metal melting and casting of solids and Role of 3D printing and its overview were discussed during the program.



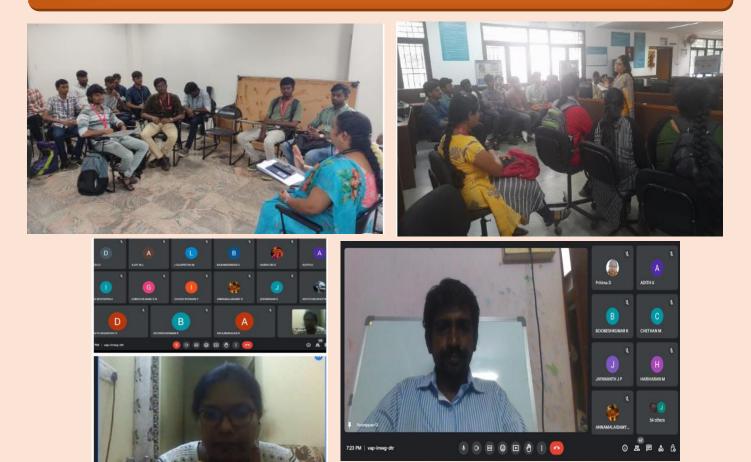
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### **MCT | TUTOR WARD MEETING**



**Tutor Ward Meeting** was conducted for the Pre – final year students on 22.07.2023. The following points were discussed.

- Regular attendance and discipline
- Industrial training attendance for open elective
- Attending the placement test
- CIA 1 preparation
- Semester exam results
- Participation in curricular and extracurricular activities
- Transparency application submission
- Industrial Training
- Placement activities



## **MCT | TUTOR WARD MEETING**



**Tutor Ward Meeting** was conducted for the **Final** year students on 23.07.2023. The following points were discussed:

- Accenture Drive Preparation
- Self-Practice through online mock tests
- Placement Drive Dress code
- Class and placement timing punctuality and attendance
- Importance of Internal marks
- Placement Test and Drive Attendance
- Completion and certificate submission of NIELT's Bridge Course on 3D Printing and Additive Manufacturing
- Transparency form submission status



### **AI&DS|TUTOR WARD MEETING**



**Mr.K.Balaji** and **Mr.S.Senthil Kumar**, Assistant Professor, Department of **Artificial Intelligence and Data Science** conducted Tutor Ward Meeting for the **Third** year students on 01.08.2023. The pointers of discussion were: Placement test, motivated students to effectively participate in events and placement activities, Regular attendance and discipline.



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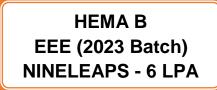
**PLACEMENT AND** TRAINING





## EEE | TESTIMONIAL BY PLACED STUDENTS

Firstly, I would like to express my heartfelt gratitude to Sri Krishna Family. I would also like to extend my regards and thanks to the professors and faculty members of the department who are integral to my success and enabled me to have a positive approach in life. I am privileged to be a part of the SKCET family. The management provided us with excellent placement training programs and numerous campus interview opportunities. "There is only one difference between Dream and Aim. Dream requires effortless sleep and Aim requires sleepless efforts". I can say that SKCET has been the best part of my life and I admire the support and dedication I received from the management and my EEE department. We were well trained for placements and because of the training I got placed in NINELEAPS. I genuinely thank all my friends, staff and professors who made my college life a happy memory.







### **TESTIMONIAL BY PLACED STUDENTS**

I am Javid Firnas S from Mechanical Engineering of Batch 2023.My experience in SKCET helped me to shape my knowledge in problem solving, leadership and management skills. I am a part of SAE SKCET collegiate club which helped me to work on my academic skills practically by means of various projects and won various awards during my academic year. The relationship between faculty members and student is very cordial, which gave me an opportunity to excel in my studies. The four years spent here were splendid and has helped me to grow better professionally and personally. I would like to thank the entire faculty members for making me a "Better Person." It gave me an opportunity to meet different kinds of people and learn several things. I have received a great support from faculty members and placement office. I am thankful to the Training and Placement cell for providing a platform to enhance my skills and opportunity to showcase them. Special thanks to SKCET team for providing various opportunities and for showing me a suitable carrier path to enhance my future growth. I convey my sincere thanks to our Principal Madam and the entire SKCET family for providing me with adverse opportunities in building my career.



JAVID FIRNAS S, MECH (2023 BATCH), JSW



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# RESEARCH AND DEVELOPMENT

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

#### Revista Ingeniería de Construcción RIC Vol 38 Nº2 202 DOI: 10.7764/RIC.00074.21

Influence of bacteria megaterium on strength and durability properties of concrete partially substituted with metakaolin Influencia de la bacteria megaterium en las propiedades de resistencia y durabilidad del hormigón parcialmente sustituido con metacaolín

> Vighnesh Rameshkumar<sup>+ 1</sup>, https://orcid.org/0000-0001-8904-0508 S. Vaishnavi Devi\*\* https://orcid.org/0000-0002-3726-2085

<sup>4</sup> Sri Krishna College of Engineering and Technology, Coimbatore Tamilnadu, INDIA \*\* Thiagarajar College of Engineering. Madurai, Tamilnadu, INDIA

> Fecha de Recepción: 27/07/2022 Fecha de Aceptación: 30/01/2023 Fecha de Publicación: 02/08/2023 PAG: 349-360

#### Abstract:

Concrete is one of the most used materials in the building sector. Inevitably, concrete gains strength and develops shrinkage Concrete is one of the most used materials in the building sector. Inertiably, concrete gains strength and develops trivilage cracks during the curing process. Strinkage cracks provide an entry point for reactive fluids to get into the concrete core. Under forwable canditons, the fluids reduce the PH of the core and consequentially corrole the reinforcing bars. This research shows the use of Beallius megaterium MICC 3353, which produces calcium carbonate and closes the minute fissures. Part substitution of centent with metabaolin was also done in the study. It was seen that the bio-based concrete specimeus enhanced the mechanical strength and durability parameters. The calcite precipitation was validated using a microstructure study. FESEM and XRD test show the presence of calcite (calcium carbonate) inside the concrete structure. The bacteria were tested for their growth when superplanticizers were added to them. The bacteria abowed normal growth compared to the conventional testing: Keywords: Mechanical properties; durability properties; microstructure; Bacillus Megaterium; Metakaolin.

Mr.R.Vighnesh, Assistant Professor, Department of Civil Engineering has published a research article titled "Influence of bacteria megaterium strength durability on and properties of concrete partially substituted with metakaolin" in Revista Ingenieríade Construcción. It is indexed in Scopus and WoS.

### **R&D** | JOURNAL PUBLICATION **M.TechCSE**

Dr.S.Karthikeyini, Assistant Professor, Department of M.Tech Computer Science and Engineering has published a paper titled "Heart Disease Prognosis Using D-GRU with Chaos Logistic Honey Badger Optimization in IoMT Framework" in the Journal of Information Technology and Control. It is a SCI, WoS and Scopus Indexed Journal with an Impact Factor 1.2. The Journal is also enlisted in Anna University Annexure I.

internation	Technology and Control	2023/2/52	
ITC 2/52	Heart Disease Prognosis Using D-GRU with Logistic Chaos Honey Badger Optimization in IoMT Framework		
Information Technology and Control	Received 2022/12/02	Accepted after revision 2023/02/13	
Vol. 52 / No. 2 / 2023 pp. 367-380 DOI 10.5755/j01.ite.52.2.32899	Prognosis Using D-GRU with Logist	Vidhya, G., Vetriselvi, T., Deepa, K. (2023). Heart Disease tic Chaos Honey Badger Optimization in IoMT Framework. 52(2), 367-380. https://doi.org/10.5755/j01.itc.52.2.32899	
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IoMT Fra	mework		
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G. Vidhya Department of Computer Sc	tience and Engineering, Sona Colle	ege of Technology, Salem, India	
T. Vetriselvi			
Department of Internet of T	hings, School of Computer Scienc	e and Engineering, VIT Vellore, India	
K. Deepa Department of Computer So Samayapuram, 621112, Trick	tience and Engineering, K. Ramak hy	rishnan College of Technology,	
Corresponding author: ska	rthikeyinicon1@outlook.com		
dict an individual's risk of a perience. Developing an effi (IoMT) technology in health expert systems, and incorporations is a challenging task.	acquiring heart disease since it re ective method for the prognosis of heare organizations by collecting prating vast healthcare data on ca	ontributory death factors. It is challenging to pre- quires both expert knowledge and real-world ex- of heart disease using Internet of Medical Things sensor data from patients bodies, utilizing robust rdiac disorders to alert physicians in critical situ- techniques for predicting and disemosing cardiac	



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

#### ScienceDirect

#### ISA Transactions Available online 25 July 2023 ournal Pre-proof 🕜 What's this? 🏾

Electric vehicle parameter identification and state of charge estimation of li-ion batteries: Hybrid WSO-HDLNN method amy ang ang 🕺 🖂 , M. Mathankumar a, ThamilSelvi C. Palanichamy b, S. Siya

- \* Electrical and Electronics Engineering, Kumaraguru college of technology, Colmbatore, India <sup>b</sup> Computer Science and Engineering, PPG Institute of Technology, Colmbatore, India <sup>c</sup> Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Colmbat India
- Received 3 November 2022, Revised 22 June 2023, Accepted 21 July 2023, Available online 25 July 2023.

😑 Outline 🦂 Share 🤧 Cite https://doi.org/10.1016/j.isatra.2023.07.029 🌫 Get rights and content 🌫

#### Highlights

- This manuscript proposes a hybrid technique for measuring the battery's dynamic electrical respons
- The proposed hybrid technique is the wrapper of WSO and HDLNN.
- The main aim of the proposed method is to lessen the battery-voltage error
- WSO is detects the parameters of battery; HDLNN is predict the electrical response of battery.
- The estimated voltage and measured voltage error is reduced and identifies the parameter effectively.

Dr.S.Sivaranjani, Professor, EEE Department has published a paper vehicle "Electric entitled on parameter identification and state of charge estimation of li-ion batteries: Hybrid WSO-HDLNN method"in ISA Transactions. Elsevier. It is SCI indexed journal with an impact factor of 7.3.

### **EEE | BOOK CHAPTER PUBLICATION**

#### CHAPTER - 29

#### A Review of Torque Ripple Control Strategies of Switched Reluctance Motor

G.Mahalakshmi<sup>1</sup> and Dr. C.Ganesh<sup>2</sup> stant Professor/Electrical and Electronics Eng Sri Krishna College of Engineering & Technol. E-mail: mohadshing;mcGymail.com ORCID iD: 0000-003-4289-7146 ORCID iD: 0000-003-4289-7146 ORCID iD: 0000-003-4289-7146 Professor Collectrical and Electronics Engineer Kastor, Combuture-641 407, Tamihada, In Araur, Combuture-641 407, Tamihada, In E-mail: c.gamesh.mtech?2000;

# alient, single energized Switched Reluctance motor strial application of variable speed control.SRM driv at and variable speed operations. But the major dra nee Motor is High torque tripple, mechanical vibration its nonlinearity and doubly salient structure torque intermediate tripple and the structure torque nee Motor. Results obtained from the review of al attion techniques are presented. From the results it has d DTC with PI & Generatic PI controller gives the least t in Switched Reluctance motor drive.

#### RODUCTION <sup>110</sup> stator and rotor of SRM have projected poles. Stator winding produce magnetic field and the rotor don't have windings, commutator and brushes. The speed of SRM is more compared to stepper motor. The preferable qualities of





G.Mahalakshmi, Assistant Professor, **EEE** Department has published a book chapter entitled on "A Review of Torque Ripple **Control Strategies of Switched** Reluctance Motor" in Advanced Engineering Research and Applications, Book Volume with ISBN: 978-981-18-7125-2 published by RM Research International Pte. Ltd. Singapore.



# **CSBS | PATENT GRANT**

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4.Dr. S. Vinodhkumar 5.Mr. H		sasipriya 3.Dr. S. Balakrishnan
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Dr.S.Balakrishnan, Professor and Head, Department of CSBS, Sri Krishna College of Engineering and Technology received an Indian Design Patent Grant titled **"Machine Learning Based Robot** For Face Mask And Sanitizer Dispensing" with the Design Number 381142-001 from the Government of India on 31.07.2023

# **MCT**| Book Publication

Dr.J.Indirapriyadharshini,
Assistant Professor, MCT has
published a book titled
"Sensor and Transducer"
with ISBN number 978-93-
5757-354-2 in Scientific
International Publishing House.





# **R&D** | ARTICLE PUBLICATION | MECH

E3S Web of Conferences 399, 06005 (2023) ICONNECT-2023

https://doi.org/10.1051/e3sconf/202339906005

#### Performance Comparison of Tray, Bed and Integrated Drying Chamber in Closed Loop Heat Pump Dryer for Bermuda Grass

Ashok Kumat $M^{i,\star}$ , Kumaresan G², Sivagaminathan M², Rajakarunakaran S², and Siva Subramanian R²

<sup>1</sup>Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam, Tamil Nadu, India <sup>2</sup>Department of Mechanical Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India

<sup>3</sup>Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India

Abstract. Drying plays a crucial role in various industries such as food production, agriculture, Siddha, Ayurveda, and medical fields. To achieve controlled drying conditions, a heat pump dryer is considered an effective method, allowing for precise contol of parameters like temperature, humidity, and air velocity. In this study, a heat pump dryer was designed and constructed to investigate the drying characteristics of Bernmada grass (Cynodon dactyleo) at different velocities (1.5 m/s, 2.0 m/s, and 2.5 m/s) using three types of drying chambers: fluxing bed dryer, trus dryer, and combined dryer (a combination of bed and tray). The heat pump system utilized R144 as the refrigerant. The performance of the heat pump dryer in the three drying chambers: was analyzed using Bernmada grass as the drying product. The Moisture Removal Rate (MRR) was colcutated for various combunations of velocity and drying chamber, and it was observed that the combuned dryer a higher MRR at all three velocities compared to the tray and fluidized bed dryer.

Mr. R. Siva Subramanian, Assistant Professor, Mech, has published a scientific article entitled "Performance comparison of trav. bed and integrated drying chamber in closed loop heat pump dryer for Bermuda grass" in E3S Web of Conferences. It is a Scopus Indexed Journal.

# **R&D** ARTICLE PUBLICATION | MECH

Dr. K. P Yuvaraj, Assistant Professor, Mech, has published a scientific article entitled 'Impact of ultrasonic vibration pin power and tool profile on mechanical and microstructural behavior of friction stir welded dissimilar aluminium alloy joints' in Aircraft Engineering and Aerospace Technology – An Emerald group publication. It is a Scopus Indexed Journal.

### Impact of ultrasonic vibration power and tool pin profile on mechanical and microstructural behaviour of friction stir welded dissimilar aluminium alloy joints

#### Yuvaraj K.P.

Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, India Ioshua Gnana Sekaran I.

Department of Mechanical Engineering, CSI College of Engineering, Nilgiris, India, and

Shanmugam A. Department of Mechanical Engineering, SAMS College of Engineering and Technology, Chennai, India

Purpose – The purpose of this paper is to investigate the impact of ultrasonic vibration (UV) and tool pin profile on mechanical properties and microstructural behaviour of AA7075-T651 and AA6061-T6 joints was analysed.

Keywords Friction stir welding, Aluminium alloy, Ultrasonic vibration, Tool pin profile, Hardness, Tensile strength, Bending strength

Paper type Research paper

Intersection of entropy (PLO) in present and present a important role in determining the material flow and mechanical behaviour of the joint.

Practical implications – Dissimilar aluminium joining fascinates many applications like aircraft, aerospace, automobiles, ship building and electronics, where fusion welding is a very intricate process because of the deviation in its physical and chemical properties. Originalitylvalue – From this study investigation, it is found that the square pin profiled tool with 2kW UV power produces metallurgical defect-free and mechanically sound weld with maximum tensile strength, hardness and bending load of 297 MPa, 151HV and 3.82 kN,



# **R&D** | ARTICLE PUBLICATION | MECH

	Industrial Grope & Products 203 (2023) 117096	
	Contents lists available at ScienceDirect CROPS	
	Industrial Crops & Products	
ELSEVIER	journal homepage: www.elsevier.com/locate/indcrop	
Synthesis, character	ization and tribological investigation of vegetable oil	
methyl esters based		
Samuel Gemenrim Muthu	rathinam <sup>a,*</sup> , Ashoka Varthanan Perumal <sup>b</sup>	
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ARTICLE INFO	ABSTRACT	
Keywords	The lubricating ability of vegetable oil-based lubricant additives with commercially used engine lubricant is	
Biolubricant Transesterification	investigated in this article. The methyl esters of Neem, Pongamia and Tamanu oils were formulated by trans-	
Coefficient of friction	esterification process and blended with SAE20W40 oil in 10%, 20% and 30% of its volume. These biolubricant blends were tested for physiochemical properties and tribological behavior using LM13 Aluminium alloy as the	
Wear	plends were tested for physiochemical properties and tribological behavior using L0113 Autimitum alloy as the pin material in accordance with ASTM standards. Experimental outcomes established that the biolubricant	
	pin material in accordance with AS1W standards. Experimental outcomes established that the bolubricant blends like N10, P10, P20, N20 are capable of reducing wear about 77%, 52%, 92%, 81% respectively and the	
	frictional coefficients of N10, P20 and T30 were found to be appreciable. In the long run, they can be used as	
	primary alternatives to conventional lubricants.	

Dr. P. Ashoka Varthanan, Professor and Head, Department of Mechanical Engineering has published a scientific article entitled 'Synthesis, characterization and tribological investigation of vegetable oil methyl esters based bio lubricants' in Industrial Crops & Products – An ELSEVIER publication. It is a WoS and Scopus Indexed Journal with Impact Factor – 6.60. The journal is also enlisted in Anna University Annexure list.

# **R&D | JOURNAL PUBLICATION | AI&DS**

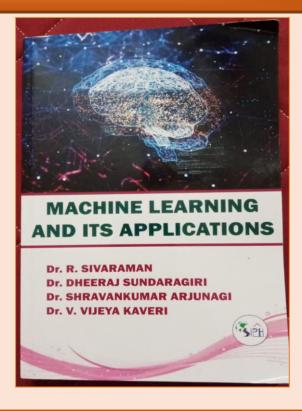
Mr.S.Senthil Kumar, Assistant Professor, AI&DS has published a scientific article entitled "Integration of Artificial Intelligence into **Operations and Monitoring of 3R** Manipulator" in the International Journal of Intelligent an Elsevier Publication. It is Scopus Indexed Journal.





# CSE | BOOK PUBLICATION | R&D

Dr.V.Vijeya Kaveri. Professor, Department of **CSE** has published a book titled "Machine Learning and It's SPIH Applications", Publisher (Scientific International Publishing House).



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

#### Optical and Quantum Electronics (2023) 55:911 https://doi.org/10.1007/s11082-023-05169-x

10 Gbps CPFSK FSO system under various adverse atmospheric conditions: performance analysis

A. R. Palanisamy<sup>1</sup> · K. C. Ramya<sup>2</sup> · J. Roopa Jayasingh<sup>3</sup> · R. Maheswar<sup>4</sup> · P. Roshini<sup>5</sup> Moustafa H. Aly<sup>6</sup>

Received: 20 April 2023 / Accepted: 8 July 2023 © The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2023

Abstract A 10 Gbps Continuous Phase Frequency Shift Keying (CPFSK) modulation is proposed for a Free Space Optical (FSO) communication system. The system performance is ana-lyzed by considering effects of atmospheric conditions, heam divergence, transmitter and receiver antenna aperture diameters for 1550 nm operation. In this paper, we evaluate the system maximum Quality-factor (Q-factor), Bit Error Rate (BER), and received power, where the system is greatly affected by the mentioned parameters. This simulation is per-formed by using the Optiwave system software. The obtained simulation results show that CPFSK modulated FSO system with low beam divergence and high aperture diameter is upgrading maximum Q-factor and degrading minimum BER.

R. Maheswar Moustafa H. Aly mosaly@aast.edu A. R. Palanisamy arpsamy2002@gmail.com K. C. Ramya ramyakc@skcet.ac.in J. Roopa Jayasingh roopa@karunya.edu P. Roshini roshinipalanis

- Department of ECE, Park College of Technology, Coimbatore, India Department of EEE, Sri Krishna College of Engineering and Technology, Coimbatore, India Department of ECE, Karunya Institute of Technology and Sciences, Coimbatore, India
- Department of ECE, Centre for IoT and AI (CITI), KPR Institute of Engineering and Technology, Comparison India
- Society for Applied Microwave Electronics and Engineering Research (SAMEER) Centre for Electromagnetics, Chennai, India
- Depatrment of Electronics and Communications Engineering, Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt
- D Springer

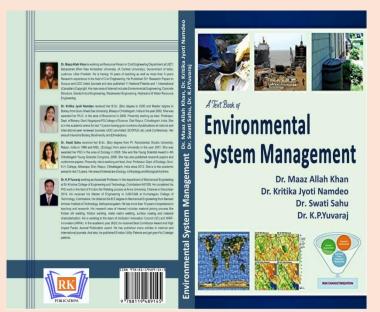
Published online: 02 August 2023

Dr.K.C.Ramya, HoD, EEE Department has published a paper entitled "10Gbps **CPFSK FSO system under various** adverse atmospheric conditions: performance analysis" Optical in Quantum Electronics with an Impact Factor: 3.0 DOI:10.1007/s11082-023-05169-x. It is indexed in SCI & Scopus journal.



# MECH | BOOK PUBLICATION | R&D

Dr. K. P. Yuvaraj, Assistant
Professor, Department of Mech,
has published a book entitled
'Environmental system
Management'. The Book was
published by RK Publications.



# IT | JOURNAL PUBLICATION | R&D

Dr.M.Arunachalam, Professor, IT has published a paper titled "An Image Denoising Scheme **Remove Unwanted Pixel Using** NLM with Sprint Deep Learning Network" in the International Journal of Intelligent **Systems** and Applications in Engineering. It is Scopus indexed publication.



2022 Accepted: 20/12/2022

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#### Introduction

Digital images play a vital nele in several domains like signature approved, modeal diagnosis, traffic investimeng, knoberting commonly und approach for collecting the image dataset. In these images are subject to vitruss noises due to naturel occurrences and defective dociose. It reals in docivent of poloquality images. Image danosing is an effective approach for images. The reachant do-noised image is single and the images. The reachant do-noised image is inter from image noise, 1-(3). Timage domains is considered an ange noise, noise images. The reachant do-noised image is for from image noise, 1-(3). Timage domains is considered an ange noise, and the processing, operacity in the model field has garbed much processing, operacity in the model field has garbed much

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"respessor, Department of Computer Science and Engineering, PSNA College of Engineering and Technology, Dindigul-624622, Tamil Nac India,Email: suverhelp@gmail.com ween me proposed SPERIA v algorithm with a convertional network (CNN) and the deep learning-based patch label ag method (LossDiff). ated work si Ghose et al. [12] proposed a conventional neural for immed methods. About 70% of semicine mbits noise

added to the input image, and the CNN model is utilized for moving. Then the quantitative analysis is performed on the NR (peak signal to noise ratio). MSE (mean square error), and (M (structural simulative) index measurement). The result shows assume that the simulation of the structure of the simulation is marked with a simulation of the simulation of the simulation bed denoising method (LosaDRf) for enhancing the similarities of the whole-like image analysis. The

IJISAE, 2022, 10(4), 130–137 | 130

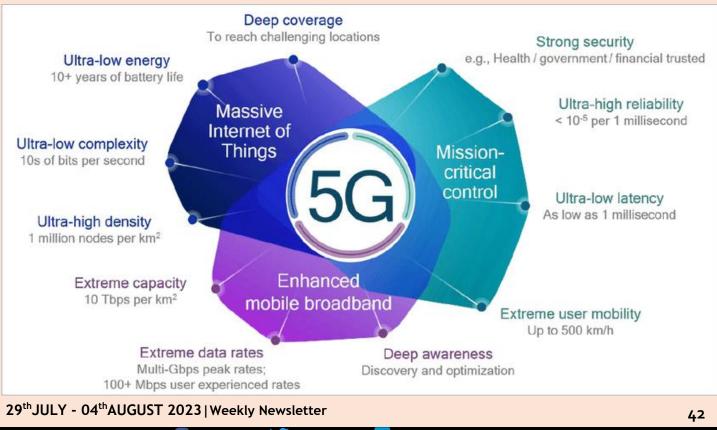


# **IT/MCT | BOOK PUBLICATION | R&D**



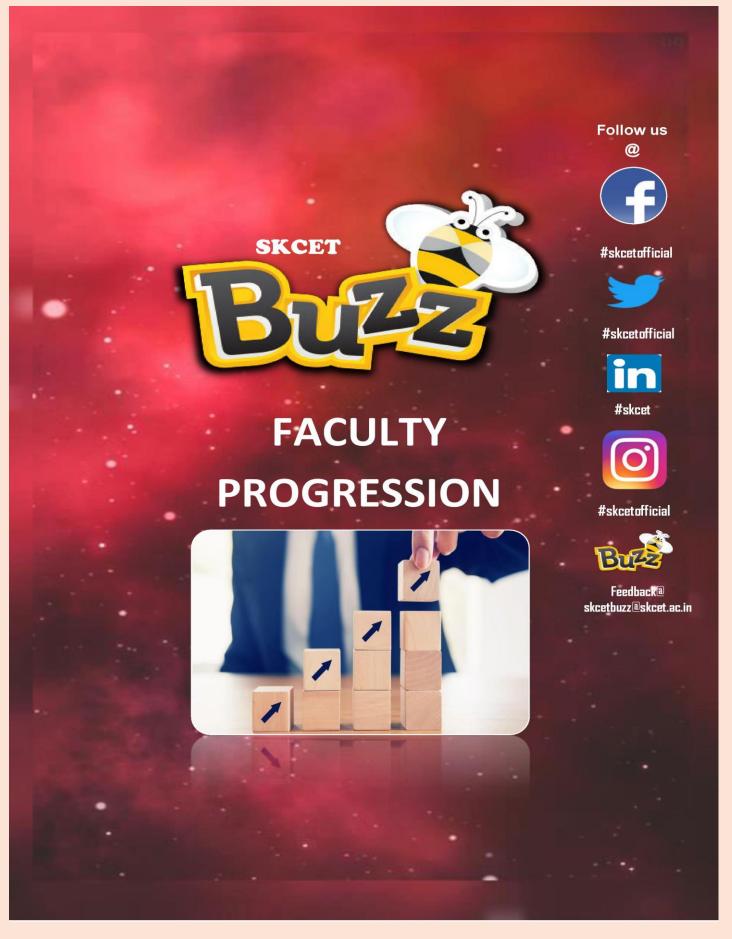
Dr. G. Edwin Prem Kumar, Professor, IT and Dr. M. Lydia, Professor, MCT have published a paper entitled "A Historic-Best Particle Swarm Optimization Approach for Trustbased Routing in Smart Grid Networks" which was presented in the 30<sup>th</sup> International Conference on Systems, Signals And Image Processing held during 27th – 29th June 2023, Ohrid, North Macedonia And Published In IEEE Xplore. It is a Scopus Indexed Publication.

# **INFOGRAPHICS**



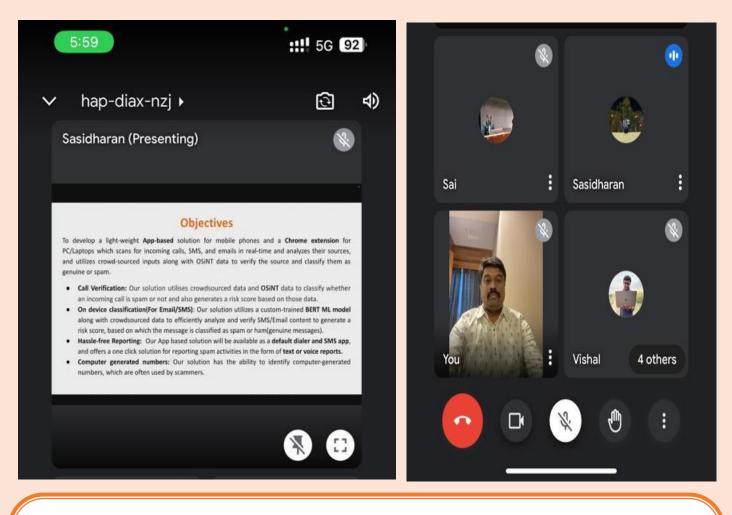


VOL - 4, ISSUE 76 | 29<sup>th</sup>July - 04<sup>th</sup> August 2023





# CSBS/CSE | INDUSTRY EXPERT MENTORING SESSION



Student teams from the Department of Computer Science and Business Systems and Computer Science and Engineering which were chosen for the National level prestigious KAVACH Hackathon 2023, had a technically sound interactive Mentoring session with Mr.Sai Satish, CEO, Indian Server Vijayawada, Andhra Pradesh.

By presenting their views for the proposed solution to the expert, the students had a useful discussion. The expert rejuvenated the brainstorming process through problem-solution mapping and contributed insights into greater levels of technical feasibility on 24.07.2023.



VOL - 4, ISSUE 76 | 29<sup>th</sup>July - 04<sup>th</sup> August 2023

# FACULTY CERTIFICATIONS

SKCET





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# CIVIL| INNOVATION AMBASSADOR TRAINING

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		of	
	Sri Krishna College of Engineer	ing and Te	chnology , Tamil Nadu
	has undergone Innovation Ambassador (IA) t	raining 'Found	dation Level' (Total 15 Sessions of
	30 contact hours) conducted in online mod	le by MoE's ir	nnovation Cell & AICTE during
	the IIC calend	ar year 2022-	23.
	Abbay the		(C. pan Jahn
	Dr. Abbray Jere Chief Innovation Officer		Mr. Dipan Sahu Assistant Innovation Director
	MoE's Innovation Cell		MoE's Innovation Cell
	Date of Issue: 24-07-2023		E-certificate No: IA/Foundation/1026806
	ПС Ш: 14	C201810347	



# **IT| INFOSYS CERTIFICATION**

Dr.K.N.Sivabalan, Professor-IT has successfully completed the course on Introduction to Deep Learning certified by Infosys Springboard.





# CSBS | INNOVATION AMBASSADOR (IA) TRAINING

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This is to	certify that
Mr. R. Ya	sir Abdullah
	of
Sri Krishna College of Enginee	ring and Technology , Tamil Nadu
172 0 72 0 12 01	training 'Foundation Level' (Total 15 Sessions of de by MoE's innovation Cell & AICTE during
the IIC calend	dar year 2022-23.
Abley tou Dr. Abhay Jere Chief Innovation Officer McE: Innovation Cell	Dr <u>posibles</u> Mr. Dipan Sahu Assistant Inevation Director MCE's Involution Cell
Date of Issue: 26-07-2023	E-certificate No: IA/Foundation/1026805
IIC ID:	IC201810347

Mr.R.Yasir Abdullah , Assistant Professor Department of . Science Computer and Business Systems has completed the Innovation (IA) training Ambassador "Foundation Level" of 30 hours conducted in online mode by MoE's innovation Cell & AICTE during the IIC calendar and received certificate the on 26.07.2023

# MECH| FDP ON RECENT ADVANCEMENTS IN ELECTRIC VEHICLE TECHNOLOGY

Mr. J. Dhiyaneshwaran, Assistant Professor , Mechanical Engineering has actively participated in the five days Faculty Development Program on 'Recent Advancements in Electric Vehicle Technology' organized by Ballari Institute of Technology and Management from 24.07.23 to 28.07.23.





# AI&DS | FDP ON CURRENT TRENDS IN SCIENCE & TECHNOLOGY



Mr.A.Wasim Raja, Assistant Professor of Al&DS had participated in the One Week Virtual FDP on "Current Trends in Engineering, Science and Technology" held on 3<sup>rd</sup> – 8<sup>th</sup> July 2023.

# AI&DS | INFOSYS SPRINGBOARD CERTIFICATION

Mr.S.Senthi	I Kumar, A	Assistant
Professor,	AI&DS	has
successfully	completed a	course
on "Imp	lementing	Deep
Learning:	Optimized	Deep
Learning A	oplications"	Certified
by Infosys	Springboard	on July
24,2023.		





# CSE|ADVANCED RESEARCH METHODOLOGY

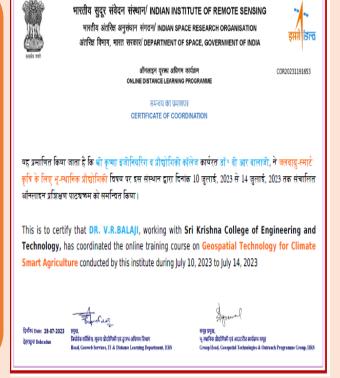
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for participa	ted in <b>"TWO WEEK N</b>	ATIONAL LEVEL VI	RTUAL WORKSHOP"on
"ADVANCI	ED RESEARCH MET	HODOLOGY " condu	acted by Department of
Commerce, I	nformation System an	d Management, SRM I	nstitute of Science and
Technology,	Ramapuram campus, C	Chennai, from 3 <sup>rd</sup> July 20	023 to 18 <sup>th</sup> July 2023
n.	whili	P Kuerelas	Mereleatipunanan
	AMBULI	Dr. P. SUSEELA HOD, COMMERCE (SHIFT 2)	MAJ.Dr. M. VENKATRAMANAN

### Mr.M.Vengateshwaran,

Assistant Professor, Department of **CSE** has participated in the two week National level virtual workshop on **"Advanced research Methodology"** organized by SRM Institute of science and Technology,

# **ECE |FACUTY CERTIFICATION**

Dr.V.R.Balaji, Associate Professor, Department of ECE has received a coordinator certificate as a token of appreciation for conducting the online training course on Geospatial Technology for Climate Smart Agriculture" organized by Indian Space Research Organization (ISRO), and Indian Institute Space Sensing, of Dehradun.





# **ECE | IEEE CERTIFICATION**





# **ECE | IEEE CERTIFICATION**



Mr J R Dinesh Kumar. Assistant Professor, has received appreciation an certificate for his role as in "First IFFF reviewer International Conference on Data Science and Network Security (ICDSNS - 2023)" held on 28<sup>th</sup> and 29<sup>th</sup> July 2023.



VOL - 4, ISSUE 76 | 29<sup>th</sup>July - 04<sup>th</sup> August 2023





# **MCT | MOCK INTERVIEW**



**Mock Interview** was conducted for the **Final** year **MCT** students by our college MBA Alumni **Mr. Sri Hari. P**, Social Media Analyst, SaasAnt Inc., Mr. Sharukh. R, Entrepreneur, Shuttle Logistics, **Mr. Ranjan Vishal**. PC, Product Marketing Analyst, SaasAnt Inc.

- Reviewed students resume
- Conducted company oriented interview
- Gave their valuable suggestions on how to improvise resume
- How to deliver self-introduction
- How to prepare for interview.

The students gained good confidence to face the interview by this mock drive.

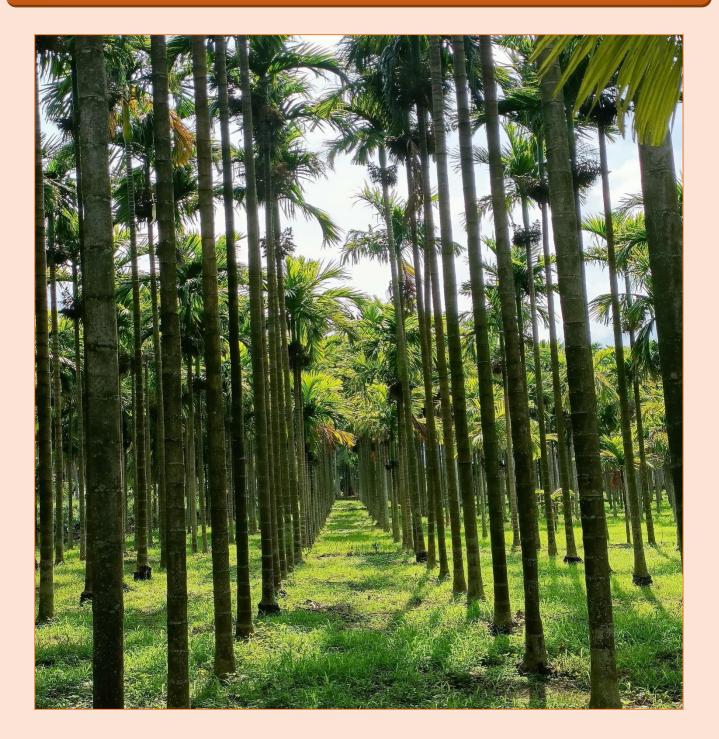


VOL - 4, ISSUE 76 | 29<sup>th</sup>July - 04<sup>th</sup> August 2023





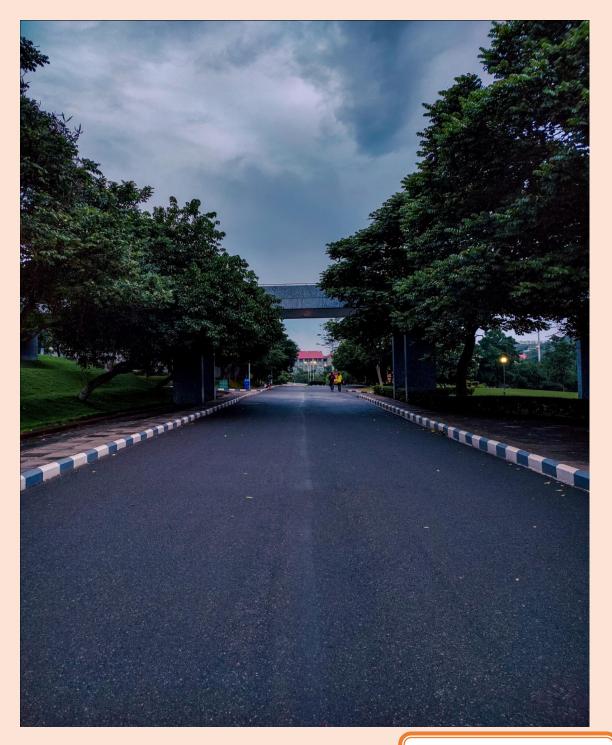
# **EEE | NATURE CLICK**



Surjith surya.V IV Year EEE B



# **ECE | NATURE CLICK**



Thanga Aravind C

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