



SKCET

Buzz

9th - 15th SEPTEMBER 2023



Editor-in-Chief

**Dr.J.Janet
Principal**

Co-Editor

Dr.S.Venkata Lakshmi – AI & DS

Editorial Team

**Mr.M.Diwakaran - IT,
Ms.N.Pooranam – CSE,
Mr.G.S.Pugalendhi - AI & DS,
Mrs.S.Mary Fabiola - S&H**

INSIDE THE ISSUE

HACKATHON ACCOLADES	: PG 03 - 05
STUDENT PROGRESSION	: PG 06 - 09
STUDENT CERTIFICATIONS	: PG 10 - 12
EVENTS	: PG 13 - 37
TUTOR WARD MEETING	: PG 38 - 39
PLACEMENT AND TRAINING	: PG 40 - 43
RESEARCH AND DEVELOPMENT	: PG 44 - 48
FACULTY PROGRESSION	: PG 49 - 51
FACULTY CERTIFICATIONS	: PG 52 - 56
ALUMNI CORNER	: PG 57 - 61
CREATIVE CORNER	: PG 62 - 66

Happy Reading!

SKCET Buzz



HACKATHON ACCOLADES



Follow us
@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback @
skcetbuzz@skcet.ac.in

M.Tech CSE | INTELLIGENT INNOVATORS HACKATHON



Student team **Incognito** of **Third year M.Tech CSE** has bagged **First prize** with a cash reward of **Rs 50,000/-** in the **National Level Intelligent Innovators Hackathon (I2H) 2.0** organized by Sri Eshwar College of Engineering held on 8th & 9th of September 2023.

Theme: Robotics, Drones and Smart Automation

Team Members

- Mohammed Rizad
- Nitishkumar R J
- Praveen N
- Ragavi M

Team Mentors: Dr.P.Kavitha Rani, Head - M.Tech CSE & CSD, Mr.J.Senthil, A/P, M.Tech CSE.

AI&DS | IDEATHON - 2023



Following students of **Third year AI & DS** have actively participated **IDEATHON-2023 - A National Design Thinking Contest & Festival** organized by SNS College of Engineering, Coimbatore.

- P.Suriya
- V.R.Ananyaa
- P.Nandhini
- R.Atchaya

SKCET Buzz



Follow us

@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



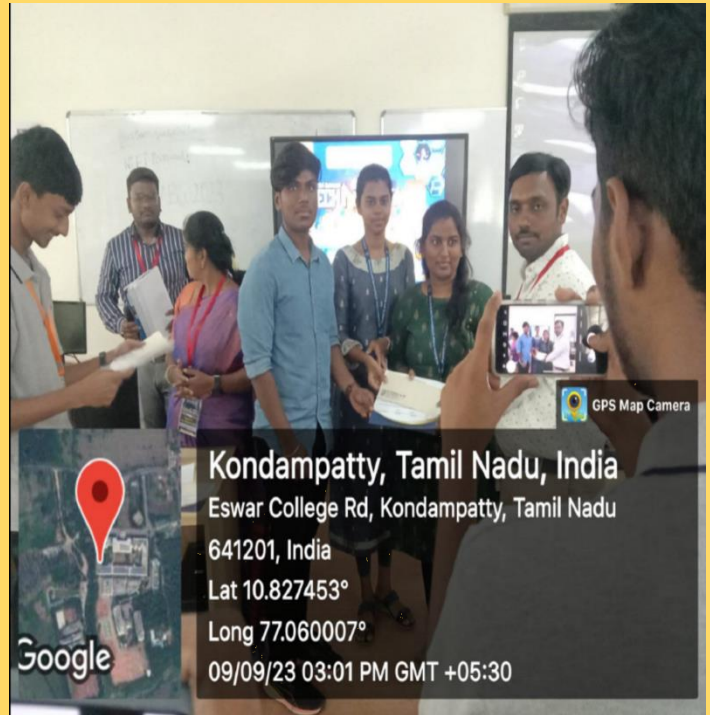
Feedback @
skcetbuzz@skcet.ac.in

STUDENT PROGRESSION



EEE | TECHNOVISTA

Hemalatha.M, Gautham.P, and Ajitha.R, students of Third year EEE “A” have secured Third place with cash prize in **Market Your Code** event, organized as a part of **Technovista’23** conducted by Sri Eshwar College of Engineering, Coimbatore.



ECE | STUDENT ACHIEVEMENT



Varon Atarrsh U, Sunil Kumar S, Vimal P, Sankar P, Akash S and Pasupathi students of Third year ECE have secured 1st place in **Techconclave** and won cash prize in "Colors-2023", National Level Technical Symposium organized by SNS College of Engineering.

ECE | STUDENT ACHEIVEMENT



Yogesh P J, Sankar Ganesh S S, and Yukesh P S, students of **Third year ECE** have secured 3rd place in coding clan and has been rewarded with a cash prize in "Colors-2023", National Level Technical Symposium organized by SNS College of Engineering



Sudhakar.S and **TharunKrisshna.N**, students of **Third year ECE** have secured 1st place in Circuit Debugging event and has also secured 2nd place in **Relay Coding** event organized as a part of "Technovista-2023", National Level Technical Symposium organized by Sri Eshwar College of Engineering. The team was rewarded with cash prize.

EEE | TECHNOVISTA 2023



Aarthika.S, Ajay.K, Karishma.R, and Muhammad Abrar.H, students of Third year **EEE “A”** have secured **First** place with cash prize in the **MARKET Your Code** event as a part of **Technovista’23** conducted by Sri Eshwar College of Engineering, Coimbatore.



Follow us

@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback @
skcetbuzz@skcet.ac.in

STUDENT CERTIFICATIONS



AI&DS | COURSERA CERTIFICATION



S.M.Nivaa Shri, student of **Second** year, **AI&DS** has successfully completed a course on **“What is Data Science”** Certified by Coursera(IBM) on 05.09.2023.

AI&DS | MICROSOFT CERTIFICATION

S.Logesh, **Second** year student of **AI&DS** has successfully Completed a course on **“Describe Cloud Service types”** certified by Microsoft on 13.09.2023.

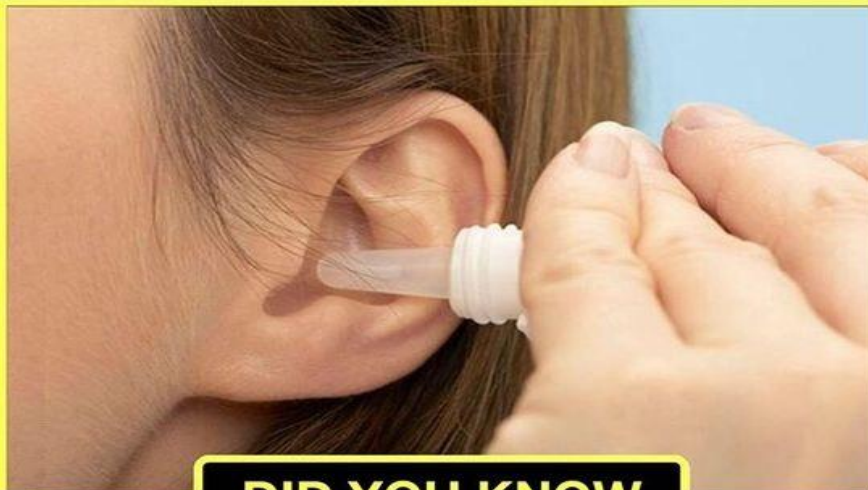


AI&DS | MICROSOFT CERTIFICATION



V.Bharath, Second year student of has successfully completed a course on “Improve Business performance with AI Builder” certified by Microsoft on 28.08.2023.

DID YOU KNOW?



DID YOU KNOW

If you pour cold water into a person's ear, their eyes will move in direction of the opposite ear. If you pour warm water into their ear, their eyes will move towards that ear. This is used to test for brain damage and is called 'Caloric Stimulation.'

SKCET

Buzz



Follow us
@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback @
skcetbuzz@skcet.ac.in

EVENTS



CIVIL | EXPERT TALK - ADVANCED SOFTWARES ON CIVIL ENGINEERING



Civil Engineering Department organised an **Industrial Expert Talk** on "**Advanced Softwares on Civil Engineering**" on 7th September 2023. The resource person of the event was **Mr. R. Udhayasankar**, Managing Director, BTR Construction, Erode.

Session Takeaways:

- Existing and Advanced Softwares
- Architecture Planning
- Building Drawing
- Infrastructure Planning and Construction
- Structural Analysis and Design
- Construction Project Management
- 3D Printing in Civil Engineering

AI&DS | HOD INTERACTION



Dr.S.Venkata Lakshmi, HoD, **AI&DS** interacted with the **Second** year **AI&DS** students on 11.09.2023. Students were informed to come well groomed, maintain discipline inside the campus, be punctual and participate in hackathon co-curricular and extra-curricular activities.

M.TECH CSE | VIRTUSA INTERACTION FIRST YEAR



Department of **M.Tech Computer Science and Engineering** has organized a **Virtusa Interaction Session** for the **First year** students and faculty members of the department on 9.9.2023.

Resource Person: Mr.S.Rajkumar, Associate Director, Virtusa, Chennai.

Session Highlights:

- Importance of programming language and elaborated the essence of Full Stack Developer.
- List of certification courses to be completed
- Industry prompt programming languages
- Enhancement of personal and professional skills.

CSBS & CYBER | INDUCTION SESSION - IIC WEBINAR

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
KUNIAMUTHUR, COIMBATORE - 641008

Department of Computer Science and Business Systems & Computer Science and Engineering (Cyber Security)

Organize an IIC Webinar on "Awareness on IPR"

Mr. Vinoth Nagarajan
Patent Engineer in Motherson Innovations, Chennai.

"Education is the most powerful weapon which you use to change the World."

Date : 11/09/2023
Venue : MCA Seminar Hall
Timing : 10:45 am to 12:00 pm

Kuniamuthur
Tamil Nadu
India
28°C

Department of **Computer Science and Business Systems** and Department of **CSE (Cyber Security)** organized an IIC Webinar on 11.09.2023.

Resource Person: Mr.Vinoth Nagarajan, Patent Engineer, Motherson Innovations, Chennai.

Session Takeaways:

- Patents, Designs, Trademarks, Geographical indications, copyrights and trade secrets
- Patentability Criteria
- Importance of Copyright
- Patent examination procedure
- Geographic Indications

CSBS & CYBER | INDUCTION SESSION - INDUSTRIAL EXPERT TALK



SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
KUNIAMUTHUR, COIMBATORE - 641008

Department of Computer Science and Business Systems & Computer Science and Engineering (Cyber Security)

Organize an "Industrial Expert talk"

Ms. Sreemathy S
Head - Learning And Development,
Linkskill Academy Private Limited, Salem

"Education is the most powerful weapon which you use to change the World."

Date : 12/09/2023
Venue : MCA Seminar Hall
Timing : 3:00 pm to 4:30 pm

Department of **Computer Science and Business Systems** and **Department of CSE(Cyber Security)** organized an Industrial Expert talk on 12.09.2023 for the First year students.

Resource Person: Ms. Sreemathy Sampath, Head - Learning and Development, Linkskill Academy Private Limited, Salem

Session Takeaways:

- Emerging Trends & Technological Advancements
- Sustainability & Environmental Impact
- Market Insights & Future Predictions
- Diversity and Inclusion, Cybersecurity and Data Privacy
- Leadership and Management
- Workforce Development & Global Market Dynamics

CSBS | HOD INTERACTION



Dr.S.Balakrishnan, Professor and Head, Department of **Computer Science and Business Systems** addressed the students of **Second year CSBS** on the theme “**There is no elevator to Success. You have to take the stairs**” and welcomed them for the new Academic Year 2023-2024 on 11.09.2023.

Session Takeaways:

- Introduction to the uniqueness of CSBS department
- Explanation about industry relevant curriculum by TCS
- Discussion on relevance of Business 4.0 and Industry 4.0
- Objectives, outcomes and curriculum
- Importance of understanding the contemporary technologies
- “**One Student, One Patent**” initiative and its importance
- Exploring the competitive side of each student through Hackathons
- Senior students shared their experience and exposure in Hackathons.

CYBER | HOD INTERACTION



Dr. S. Balakrishnan, HoD, Computer Science and Engineering (Cyber Security) addressed the **Second year CSE (Cyber Security)** students and welcomed them for the new Academic journey 2023- 2024 on 11.09.2023. He gave insight on the Curriculum of Cyber Security and shared his thoughts about the roadmap of our new technically afresh Department. The motive revolved around the industry ready intellectual values, hackathons, paper publications and patents.

CSE | HOD INTERACTION



Dr.K.Sasi Kala Rani, HoD, **CSE** interacted with the **Second year CSE** students on 12.09.2023. Students were encouraged to college professionally groomed and maintain discipline inside the campus. Importance of punctuality, hackathon participation, industrial training and its attendance, participation in co-curricular and extra-curricular activities were the highlights of the talk.

IT | HOD INTERACTION

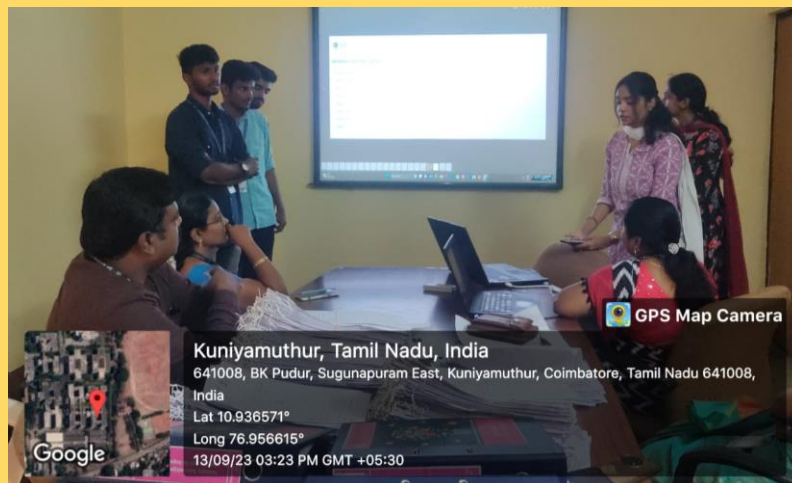


Dr. N. Susila, Professor and HoD, IT welcomed the **Second** year IT students for the new academic year 2023-2024.

Pointers of Discussion:

- Class Attendance and Discipline
- Career Guidance and Placement Opportunities
- Department overview
- Placement opportunities & Industry Training

IT | SIH 2023- INTERNAL REVIEW



Department of IT conducted internal department level **SIH idea presentation** on 13th September 2023. Around 30 teams presented their ideas. Smart India Hackathon (SIH) is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives. During the idea presentation, students presented various solutions for the problems chosen from different ministries. Students inculcated a culture of product innovation and a mindset of problem-solving. Department faculty members gave their valuable inputs for further improvisation.

MCT | INNOVATIVE PRODUCT DESIGN USING ADDITIVE MANUFACTURING



Department of MCT organized a Two-day Workshop on "Innovative Product Design using Additive Manufacturing" on 12.09.23 & 13.09.23.

Day 1

Resource Person: Er.Vishal Sivakumar, Founder & Director, 3D Crafts, Bangalore.

Highlights:

- Design Basics, Design to 3D print, Design Hands- on, Data exchange, Slicing Tools, Slicing Hands - on.

Day 2

Resource Person: Er.Arunkumar, Co-Founder & Director, 3D Crafts, Bangalore

Highlights:

- Introduction to Rapid prototyping, Overview of LIDAR - 3D Scanning, Selection of Appropriate printing orientation, Individual task on Innovative design.

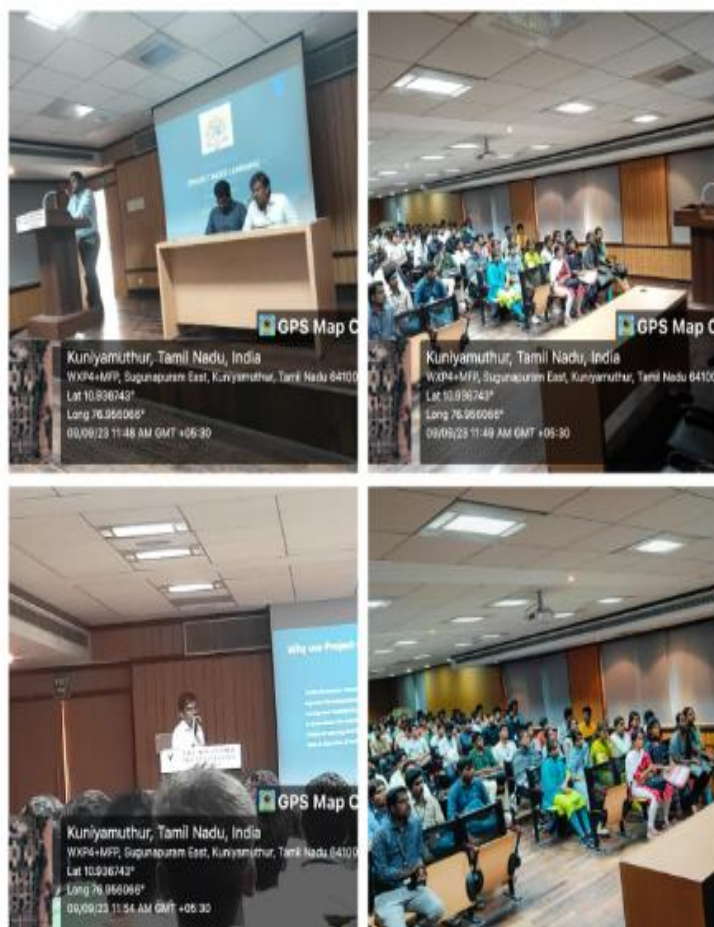
MCT | PROJECT BASED LEARNING

As apart of **First year Induction Programme**, Department of **MCT** organized a session on **“Project Based Learning (PBL) in Western Countries”**

Speaker: Dr. N S Sivakumar, Assistant Professor, Ishik University, Iraq

Session 1:

- About the PBL
- Mechatronics Engineering in western and Gulf Countries
- Students’ standards w.r.t Industrial Needs
- Salient features of Industrial Based Education
- Outcome of the industry and student periodic visit



Session 2

Topic: Department’s Success Story

Speaker: Dr. M Lydia, Professor and Head, Department of Mechatronics Engineering

- Department Vision and Mission
- OBE & Curriculum
- Department Best Practices
- Industrial Collaborations
- Students Clubs & Activities
- Key Accolades



ECE | STEP INTO 5G FUTURE



Department of ECE in association with Jio proudly organized the launch of **Jio True 5G** in our campus. Our Principal **Dr.J.Janet** presided the inauguration **Dr.Ragavi**, Dean-Student Affairs welcomed the Chief Guest and addressed the Gathering. **Mr.Senthil**, Head, State Constructions, Jio Tamilnadu felicitated our Principal with their memento as a token of gratitude. The team also interacted with our students regarding the benefits, schemes and student friendly plans of Jio True 5G that they are yet to explore for the greater good of the students community.

EEE | HOD INTERACTION



Dr.K.C.Ramya, HoD, EEE interacted with the **Second year EEE** students and encouraged them to involve themselves in various development programmes and co-curricular activities. She also emphasized on Identifying and utilizing right path to hit the target right. The students were instructed to maintain discipline and decorum inside the campus and reiterated the importance and continuation of Industrial course session.

EEE | DEPARTMENT'S SUCCESS STORY



Dr.K.C.Ramya, HoD, **EEE** Department shared the success story of the Department and motivated the First year students to have a successful and happy nesting at SKCET.

Session Takeaways:

- Unveiling the Department's Success Story
- Inspiring students for a fulfilling journey at SKCET
- Identifying Passions and Strengths
- Crafting a Well-Defined Career Path
- Equipping oneself with Essential Knowledge and Tools
- Navigating the Dynamic Job Market with Confidence

EEE | YOUR IT ESSENTIALS - CODING LANGUAGES



Kuniamuthur, Tamil Nadu, India
 WXP4+M8V, BK Pudur, Sugunapuram East, Kuniamuthur, Coimbatore,
 Tamil Nadu 641008, India
 Lat 10.936649°
 Long 76.955818°
 07/09/23 03:53 PM



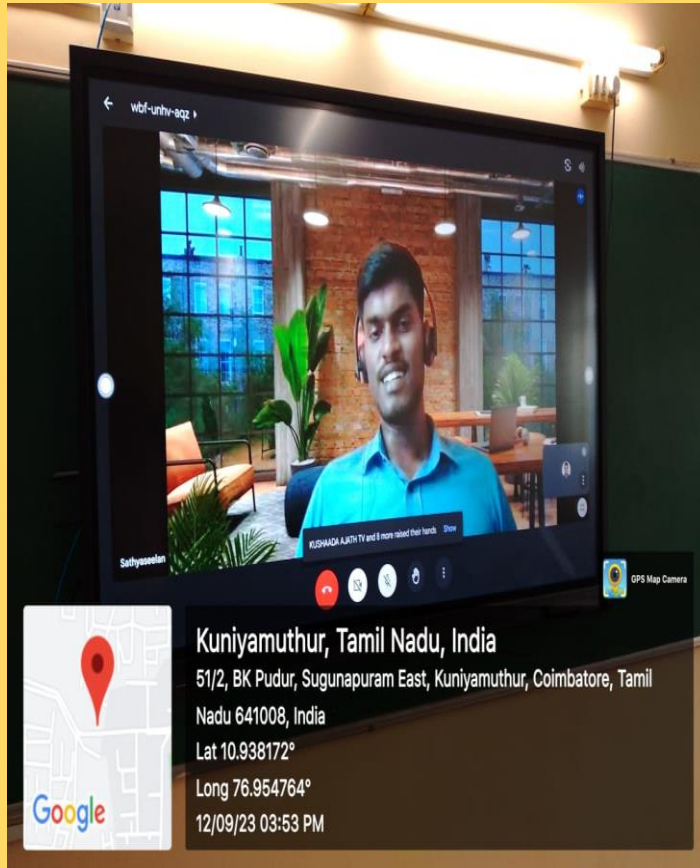
Kuniamuthur, Tamil Nadu, India
 WXP4+M8V, BK Pudur, Sugunapuram East, Kuniamuthur, Coimbatore,
 Tamil Nadu 641008, India
 Lat 10.936663°
 Long 76.955958°
 07/09/23 03:52 PM

Mr.S.Boobalan and **Dr.P.Vinoth Kumar**, Assistant Professors, EEE interacted with the First year students and insisted them about the essentials of learning Coding.

Session Takeaways:

- Exploring MATLAB for Data Analysis and Simulations
- Harnessing the Power of LabVIEW for Instrumentation and Control
- Mastering SolidWorks for 3D Modeling and Design
- Unlocking the Potential of C Programming for Efficiency
- Embracing Java for Versatile Application Development
- Delving into Python's World of Data Science and Automation

EEE | IIC WEBINAR



Mr.P.Sathyaseelan, Graduate Engineer Trainee, TATA Technologies, Bangalore addressed the First year EEE students.

Session Takeaways:

- Navigating the World of Industrial Innovation and Collaboration (IIC)
- Insights into the Role of Graduate Engineer Trainees in Industry
- Leveraging Technology at Students level.
- Building Strong Industry-Academia Partnerships
- Key Strategies for Success as an Engineering Graduate
- Exploring Career Opportunities and Growth Paths in the Engineering Sector

S&H | FIRST YEAR INDUCTION PROGRAMME



**ORIENTATION ON
LINGUASKILL ASSESSMENT**

**Dr. Roweena Belinda D'Couto,
Cambridge Presenter**

**STAY SAFE ONLINE: CYBER
GUARD**

**Dr. Venkateshwaran
Loganathan, Software
Architect & ML Specialist,
Conversight AI.**



S&H | FIRST YEAR INDUCTION PROGRAMME

SKILL SEEK

A talent hunt event to nurture talent and promote inclusivity and celebrate the rich tapestry of skills and abilities that students possess.



MENTOR/ MENTEE INTERACTION/ COUNSELLING

Advisors and tutors interacted with their respective class students and assured to provide them with valuable support and guidance throughout the academic year.

S&H | FIRST YEAR INDUCTION PROGRAMME



EXPLORING THE FRESH HORIZONS

Students were taken to the ground to engage them in some physical activities as they are essential for their mental and physical health.

CAREER CATALYST - IGNITING INTO

PROFESSIONAL FUTURE

Mr. Ashwin, Founder & CEO of The Entrance Gate. An insight on developing necessary skills and pursue paths that lead to personal and professional fulfillment.



S&H | FIRST YEAR INDUCTION PROGRAMME

YOGA

Dr.V.Balakrishnan, Yoga Therapist, Ozone Yoga, Coimbatore. Yoga Session was organized for the students to acknowledge and celebrate the immense benefits that yoga brings to our lives and to experience solace and serenity.



Altitude of Attitude

Dr.A.Indhulekha HoD S&H, the session highlighted the importance of a positive and proactive mindset in various aspects of life.

S&H | FIRST YEAR INDUCTION PROGRAMME



Startup Spark - Fanning the Flames

Mr. R.Sathishraj, CEO, E-Crusaders, Chennai. A session on developing an entrepreneurial mindset, characterized by innovation.

DRIVE - ENHANCING TALK
Mr. Jayaprakash A Gandhi,
Career Consultant & Analyst.



S&H | FIRST YEAR INDUCTION PROGRAMME

Mr.Senthil, Co-founder, Iamneo, A session on the importance of developing programming skills and also presented a roadmap about the industrial training provided at



Dr.Sumathi, Assistant Professor, Mathematics and Regional coordinator of AICTE-NCCIP UHV(Southern Region of India) Sri Sairam Engineering College, Chennai. The session highlighted the importance of values in shaping once future, influencing once behaviour and define who a person is as an individual.

S&H | FIRST YEAR INDUCTION PROGRAMME



Dr.Varun M D, Assistant Professor in Respiratory Medicine, PSG Institute of Medical Sciences and Research, Coimbatore. The session reinforced the importance of understanding the dangers of narcotic addiction and the need to make informed choices.



Follow us

@



#skcetofficial



#skcetofficial



#skcet



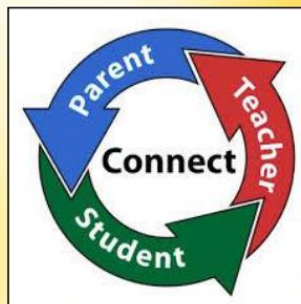
#skcetofficial



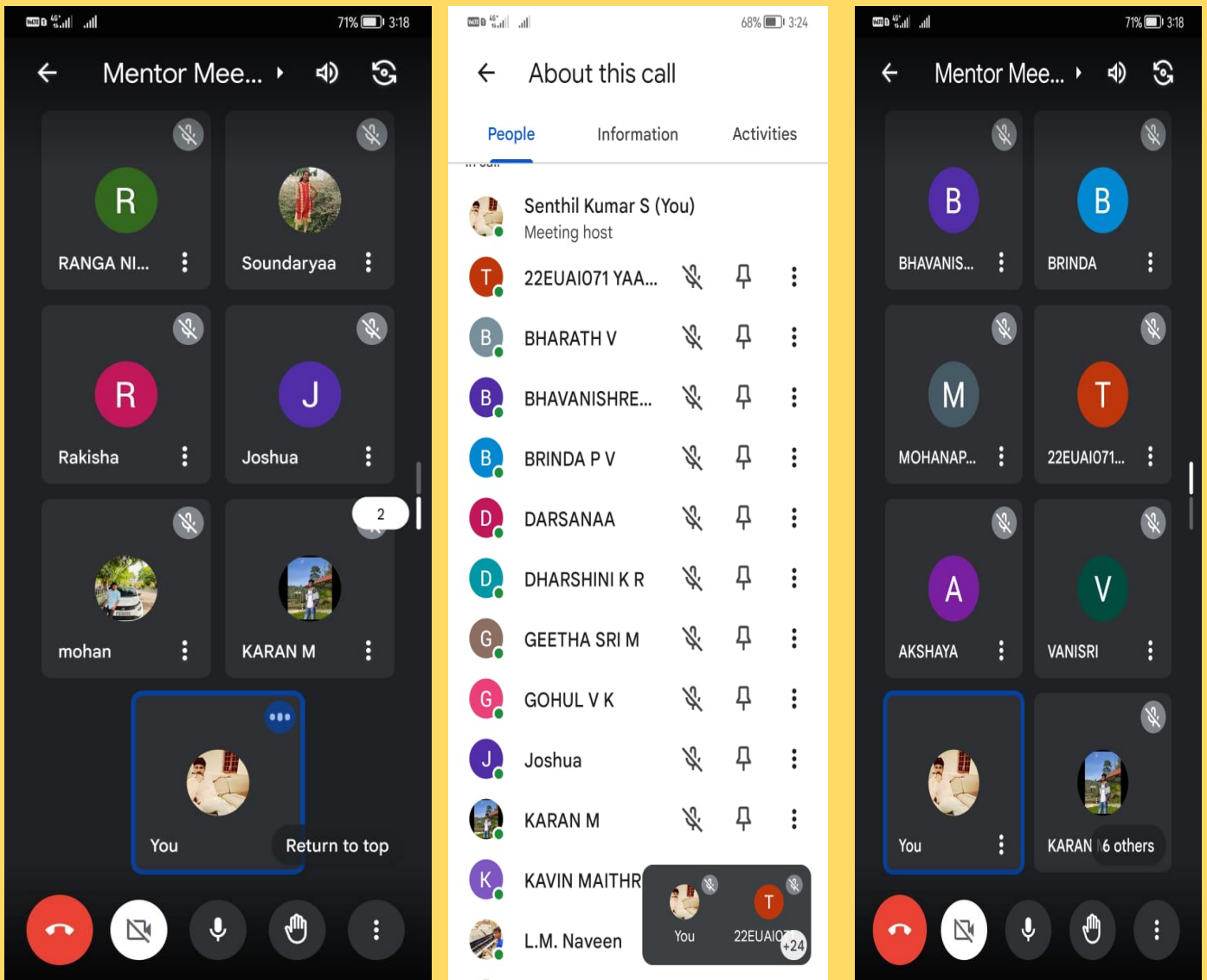
Feedback @

skcetbuzz@skcet.ac.in

TUTOR WARD MEETING



AI&DS | TUTOR WARD MEETING



Mr.S.Senthil Kumar, Assistant Professor, Department of **Artificial Intelligence and Data Science** conducted Tutor Ward Meeting for the **Second** year students on 07.09.2023. The pointers of discussion were: College reopening, rules and regulation, placement, skillathon course completion status and NPTEL course registration.

SKCET Buzz



Follow us
@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback @
skcetbuzz@skcet.ac.in

PLACEMENT AND TRAINING



EEE | PLACEMENT TESTIMONIALS

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 staffs of my department who played an integral part 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. **“Success is the sum of small efforts – repeated day in and day out.”** Throughout my academic journey, I was encouraged by the faculty members and my EEE Department’s dedication, expertise, and willingness to go the extra mile to support students for better future. I can say that SKCET has been the best part of my life. We were well trained for placements and because of the training I got placed in TCS. I genuinely thank all my friends and faculty members who made my college life a happy memory.

LATCHIYA D
EEE (2024 Batch)



PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

I really loved my time at SKCET. In retrospect, this period of four years feels very brief, but I was guided throughout to make the most of it. Regardless of whether this was the absolute best time of my life, one thing that is for sure is, this was certainly a crucial first step in the beginning of my career. With a lot of work put into educational online platforms by the institution, and the constant effort of teachers, it was easy to get acquainted with at least a skill or two. And this was one of the biggest reasons I was able to land my first job. Looking back, I would not have it any other way. Thanks to my parents, SKCET Management, Principal and the entire SKCET family for the wonderful opportunity.

ANTO RINISH GANTH
AMECH (2021 Batch),
ZIFO



PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

I am very privileged to be a part of such an amazing organization as SKCET. The years spent here were full of learning opportunities with a right blend of fun and academics. The faculty members and my advisors have supported me to improve my academics and interpersonal skills and transformed me into a better professional. I am very much grateful to my parents for choosing SKCET. Thanks to our Principal Madam and entire SKCET faculty team. I would like to thank the placement team which provided me with a gateway to enter the corporate environment. Above all, the greenery of the campus did ensure that I had a remarkably smooth journey at my SKCET.

**Mohankumar M,CSE
(2021 Batch),
Freshworks**



SKCET

Buzz



Follow us

@



#skcetofficial



#skcetofficial



#skcet



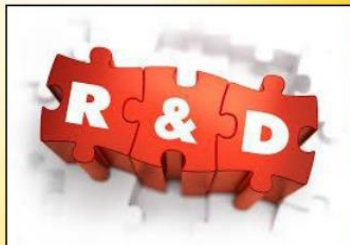
#skcetofficial



Feedback @

skcetbuzz@skcet.ac.in

**RESEARCH &
DEVELOPMENT**



R&D | PATENT PUBLICATION | CIVIL

Application Details	
APPLICATION NUMBER	202341036784
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/05/2023
APPLICANT NAME	1. Dr. Ashwin M 2. Dr. Mahesh Maurya 3. S. Gayathri Devi 4. Dr. P. Mathurawamy 5. Ananda Ravuri 6. Dr. V.K Senthil Ragavan 7. Dr. K.Spurthi 8. Dr.M.R.EZHILKUMAR 9. M.Stanywit 10. Dr.T.Sathish Kumar 11. T.Raghavendra Gupta 12. Mr. Madamanchi Brahmaiah 13. Dr. Maithili K
TITLE OF INVENTION	BLOCK CHAIN BASED METHOD FOR REDUCING VEHICLE POLLUTANT EMISSIONS
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	drsivashankars@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/09/2023

Dr. M. R. Ezhil Kumar, Assistant Professor, Department of **Civil Engineering** has published a patent on the title "**Block Chain based method for reducing vehicle pollutant emissions**".

R&D | JOURNAL PUBLICATION | CIVIL

Mr. S. Sadheesh, Assistant Professor, Department of **Civil Engineering**, has published a research article titled "**Relative impact of pollutant concentrations in industries over ambient air quality around industrial zone SIDCO-Kurichi using spatial distribution**" in the Indian Journal of Environmental Pollution. It is indexed in Scopus.

IJEP 43 (9) : 835-842 (2023)

(ISSN : 0253-7141)

Relative Impact of Pollutant Concentration in Industries over Ambient Air Quality around Industrial Zone SIDCO-Kurichi using Spatial Distribution

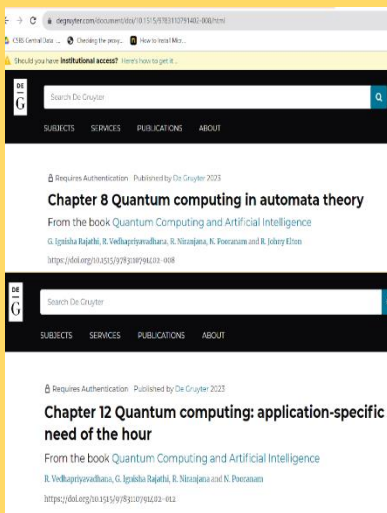
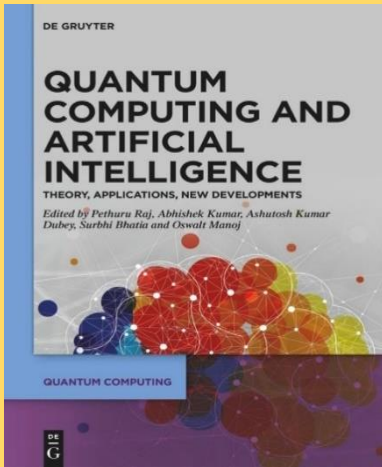
S. Sadheesh¹, R. Malathi^{2*}, M. Dhanesh¹, G. Dhatchana Moorthy¹ and S. Dhinakaran¹

1. Sri Krishna College of Engineering and Technology, Department of Civil Engineering, Coimbatore - 641 008, Tamil Nadu, India
2. Sri Ramakrishna Institute of Technology, Department of Civil Engineering, Coimbatore - 641 010, Tamil Nadu, India

*Corresponding author, Email: sadheesh01@gmail.com

Due to an increase in the vehicle count, intensive population growth, use of fuel with deprived environmental performance, industrialization and above all ineffective environmental guidelines leads to high air pollution in this country. The aim of this study is to investigate the amount of pollutants (PM₁₀, PM_{2.5}, SO₂, NO₂, NH₃ and O₃) released from various sources, like vehicular exhaust, industrial emissions, etc. SIDCO-Kurichi is one of industrial clusters in Coimbatore. Six sampling points were chosen and at each location, 6 pollutants were monitored for 4 cycles. To estimate the level of impurities in the air, range of pollution index was determined by the procedure recommended by the government. The result shows that Sundarapuram had higher concentration based on pollutant level measurements and was found to have the worst air quality. From the monitoring studies, daily variations of particulate pollutants were observed with the influence of meteorological conditions indicating concentrations higher than local acceptable limits in Sundarapuram. The maximum concentrations of PM₁₀ and PM_{2.5} observed in SIDCO were recorded at Sundarapuram, such as 110.35 µg/m³ and 62.33 µg/m³, respectively. The pollutant responsible for this AQI was identified as PM₁₀, PM_{2.5}, SO₂, NO₂, O₃ and NH₃ concentrations at all locations were within standard limits. The pollutant accountable for maximum pollution index value was found to be 108 at Sundarapuram comes under moderate category when compared to other study areas coming under satisfactory conditions. SO₂/NO₂ ratio values were obtained around 0.4, which means the concentration of SO₂ is much less than that of NO₂ due to increasing level of vehicular emissions in industrial zone. The least impact of moving vehicles was found to be at Indira Nagar, Coimbatore. The spatial distribution of pollutants gives a pictorial view showing how the pollutants are distributed at each location. This poses a great threat to the health and environment of the inhabitants.

R&D | BOOK CHAPTER PUBLICATION



Dr.G.Ignisha Rajathi, Associate Professor, Department of **Computer Science and Business Systems**, **Ms.R.Niranjana**, Assistant Professor, Department of **Electronics and Communication Engineering** and **Ms.N.Poornam**, Assistant Professor, Department of **Computer Science and Engineering** have published 2 chapters in the Edited Book “**Quantum Computing and Artificial Intelligence: Theory, Applications, New Development**” under the titles “**Quantum Computing in Automata Theory**” and “**Quantum Computing: Application- Specific Need of the Hour**”, published by De Gruyter in September 2023. The Chapters are Scopus indexed on 13.09.2023.<https://doi.org/10.1515/9783110791402-008>, <https://doi.org/10.1515/9783110791402-012>.

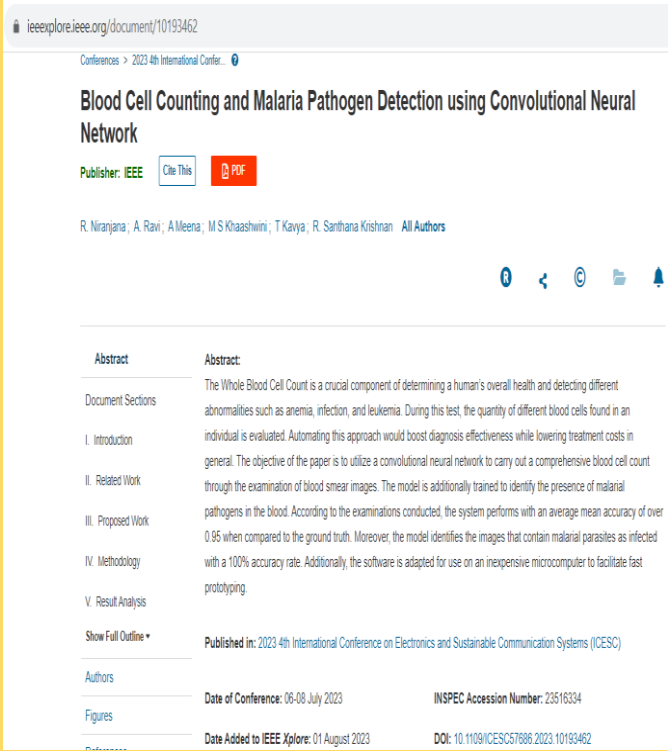
R & D | PATENT GRANT | M.Tech.CSE

Mr.J.Senthil, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has received a patent grant titled “**Smart Tablet Vending Machine**” with the design number 388995-001 on 23.8.2023.



R&D | PAPER PUBLICATION | ECE

Ms.R.Niranjana, Assistant Professor, **ECE** has published her conference paper titled **“Blood Cell Counting and Malaria Pathogen Detection using Convolutional Neural Network”** at the 2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC). It is a Scopus Indexed IEEE Conference.



R&D | PATENT PUBLICATION | CSE/IT



Patent titled **“Artificial Intelligence Based Stress Detection Device”** filed by **Dr.Barakkath Nisha** Associate Professor, IT, and **Dr.Reshma V.K,** Associate Professor, CSE has received a grant from The Patent Office, Government of India, Certificate of Registration of Design, Issued on 5.09.2023.

R&D | PAPER PUBLICATION | ECE

Mr.S.P.Karthi, Assistant Professor, of the Department of **ECE** has published his conference paper titled **“Detection of Faulty Components in Analog Filters using Fuzzy Logic”** at the 2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC). It is a Scopus Indexed IEEE Conference.

ieeexplore.ieee.org/document/10193186

Conferences > 2023 4th International Confer.

Detection of Faulty Components in Analog Filters using Fuzzy Logic

Publisher: IEEE [Cite This](#) [PDF](#)

S.P. Karthi, K. Kavitha, G. Muralkharan, B. Siva Hari, V. Nithin Pranesh All Authors

Abstract
In general, it can be challenging to identify and investigate errors in filter circuits. Day by day the challenges in detecting the faults in the circuits has become complex and it is a time-consuming process. Due to these faults, the wrong outputs have been obtained, which can affect the desired output. Hence, as a solution, it is suggested a technique for identifying faults in analog filters. With this approach, it spots circuit issues by taking into account elements like phase margin. For the circuit that is being tested, several defective situations are simulated. Using this information as a foundation, a fault dictionary is created, and the FUZZY INFERENCE SYSTEM is utilized to assign fault index values and categorize the defects.

Document Sections

- I. Introduction
- II. Related Work
- III. Proposed Work
- IV. Result Analysis
- V. Conclusion

Authors

Date Added to IEEE Xplore: 01 August 2023
DOI: 10.1109/ICESC57686.2023.10193186

Date of Conference: 06-08 July 2023
INSPEC Accession Number: 23516379

Published in: 2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC)

R&D | ARTICLE PUBLICATION | MECH

DE GRUYTER Materials Testing 2023, asp

Testing for Welding, Joining or Additive Manufacturing Applications

Seerangan Ragu Nathan*, Visvalingam Balasubramanian, Ardula Gourav Rao, Tushar Sonar, Mikhail Ivanov and Chinmasamy Rajendran

Influence of tool plunging rate on mechanical properties and microstructure of friction stir welded DMR249A high strength low alloy (HSLA) steel butt joints

<https://doi.org/10.1515/mt-2023-0043>
Published online August 21, 2023

Abstract: The main aim of this study is to analyse the influence of tool plunging rate on tool wear and stir zone characteristics of DMR249A high strength low alloy (HSLA) steel joints developed using friction stir welding (FSW). The HSLA steel plates were welded at five levels of tool plunging rates varying from 2.0 mm min⁻¹ to 3.0 mm min⁻¹. The tool rotational speed of 600 rpm and welding speed of 30 mm min⁻¹ were kept constant during welding. The wear of FSW tool was analysed by microscopic observations of tool condition after welding, stir zone characteristics, weight loss measurement and pin profile analysis. The characterization techniques of optical microscopy (OM), scanning electron microscopy (SEM) and transmission electron microscopy (TEM) were employed to analyse the microstructural characteristics of stir zone of welded joints. Results disclosed

that the severe degradation of FSW tool occurred due to the sudden dynamic impact load on tool pin while plunging and more diffusion of work piece material into the tool pin which leads to insufficient plasticized material flow. The tool plunging rate of 2.5 mm min⁻¹ showed minimum tool wear and produced defect free sound joint.

Keywords: DMR249A HSLA steel; friction stir welding; mechanical properties; microstructure; plunging rate; tool wear

1 Introduction

The reduction in weight of ship building structures without compromising on the strength and safety aspects has gained more importance to increase the marine engine efficiency, reduce the fuel consumption and cost associated with it. This has forced the researchers to make use of high strength low alloy steel (HSLA) in fabrication of ship building structures [1]. HSLA steel is characterized by greater tensile properties, higher strength to weight ratio, good impact toughness at sub-zero temperatures [2]. The defence metallurgical research laboratory (DMRL) of India has indigenously developed the advanced naval grade HSLA steel which is known as DMR249A steel. This steel is typically used for creating the ship building structures of aircraft carriers and other new high weight ships [3]. The DMR249A steel is characterized by the superior strength, lighter weight, greater impact toughness at -60 °C. This steel is developed by the addition of 0.08 % carbon (C), 0.001–0.006 % titanium (Ti), 0.03–0.05 % vanadium (V) and less than 0.05 % niobium (Nb). The microstructure of ferrite is majorly evolved in this steel with 10 % of pearlite [4]. The DMR249A steel is weldable using gas tungsten arc welding (GTAW), gas metal arc welding (GMAW) and shielded metal arc welding (SMAW). Hariprasanth et al. [5] concluded that the base metal (BM) and GMAW joint of DMR249A steel disclosed the fatigue

*Corresponding author: Seerangan Ragu Nathan, Micromaching Research Centre (MIRC), Department of Mechanical Engineering, Sri Jayachandran Engineering College, Tirupur, 67702, Andhra Pradesh, India. E-mail: ragunathan@rediffmail.com, <https://orcid.org/0000-0002-7971-3462>

Visvalingam Balasubramanian, Centre for Material Joining and Research (CMJQR), Department of Manufacturing Engineering, Anna University, Chittoor Campus, 608002, Tamil Nadu, India. E-mail: vimalb@yahooinfo.com, <https://orcid.org/0000-0001-7658-6362>

Ardula Gourav Rao, DRDO Naval Materials Research Laboratory (NMRL), Ambarnath, 421006, Maharashtra, India. E-mail: gauravrd@rediffmail.com, <https://orcid.org/0000-0002-5910-4908>

Tushar Sonar and Mikhail Ivanov, Department of Welding Engineering, Institution of Engineering and Technology, South Ural State University (National Research University), Chelyabinsk, 454080, Russian Federation. E-mail: tushar_sonar78@gmail.com (T. Sonar), mikhailivanov@mail.ru (M. Ivanov), <https://orcid.org/0000-0002-3997-5337> (T. Sonar), <https://orcid.org/0000-0002-5267-0040> (M. Ivanov)

Chinmasamy Rajendran, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, 641008, Tamil Nadu, India. E-mail: crs12@gmail.com, <https://orcid.org/0000-0001-7044-1969>

Dr. C. Rajendran, Associate Professor, **Mechanical Engineering** has published a scientific article entitled **‘Influence of tool plunging rate on mechanical properties and microstructure of friction stir welded DMR249A high strength low alloy (HSLA) steel butt joints’** in Materials Testing – A De Gruyter publications. It is a SCI, WoS and SCOPUS Indexed Journal with Impact factor 2.5. The journal is also indexed in Anna University Annexure List.

SKCET Buzz



Follow us
@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback @
skcetbuzz@skcet.ac.in

FACULTY PROGRESSION



CSBS | KEYNOTE SPEAKER

INTERNATIONAL CONFERENCE ON TOWARDS A GLOBAL EDUCATION RENAISSANCE
CELEBRATING TEACHERS & EMPOWERING GENERATIONS

DR. S. BALAKRISHNAN
KEYNOTE SPEAKER
PROFESSOR AND HEAD, DEPT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS, SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

DR. RAJARAO PAGIDIPALLI
CHAIRMAN

PROF. DR. VJE CAROLINE
MANAGING DIRECTOR

9TH SEPTEMBER 2023 (8PM IST)

EMPOWERING GENERATIONS

VISHWA HUMANITY UNITED INTERNATIONAL ROYAL COUNCIL
+91 9440509770
www.unroyalcouncil.com

GLOBAL EDUCATION INTERNATIONAL CONFERENCE

MARK ANTHONY KING
SPECIAL GUEST

DR. RAJARAO PAGIDIPALLI
CHAIRMAN

PROF. DR. VJE CAROLINE
MANAGING DIRECTOR

9TH SEPTEMBER 2023 (8PM IST)

EMPOWERING GENERATIONS

VISHWA HUMANITY UNITED INTERNATIONAL ROYAL COUNCIL
+91 9440509770
www.unroyalcouncil.com

Dr.S.Balakrishnan, Professor and Head – Department of Computer Science and Business Systems has given an expert talk on Celebrating Teacher’s & Empowering Generations in the International Conference - towards a Global Education Renaissance at Vishwa Humanity United International Royal Council on 09.09.2023.

MECH | PH.D VIVA VOCE



Mr. K. Manickaraj, Research scholar of Dr. R. Ramamoorthi, Professor - **Mechanical Engineering** has completed his viva voce examination for his Doctoral degree on 28.08.2023. The examiners appreciated the scholar and supervisor for their extensive research work. The area of interest of the scholar was Composite materials and Hybrid composites.

MECH | PH.D VIVA VOCE

Mr. R. Crushan, Research scholar of Dr. P. Ashoka Varthanan – HoD **Mechanical Engineering** has completed his viva voce examination for his Doctoral degree on 31.08.2023. The examiners appreciated the scholar and supervisor for their extensive research work. The area of interest of the scholar was Friction Stir Welding.





Follow us
@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback @
skcetbuzz@skcet.ac.in

FACULTY CERTIFICATIONS



CSE | IAMNEO CERTIFICATION



Following faculty members **CSE** have successfully clearing the **iamneo certification assessment** and are now recognized as a mentor for project-based learning.

S.No	Name of the Faculty	Course Completed
1.	Ms.Priya A	C++ & Data Structures
2.	Ms.Majidha Fathima K.M	C++ & Data Structures
3.	Ms.Azhaguramyaa V.R	Database Management Systems and Java
4.	Dr.M.Rohini	Java
5.	Dr.Reshma V.K	Java

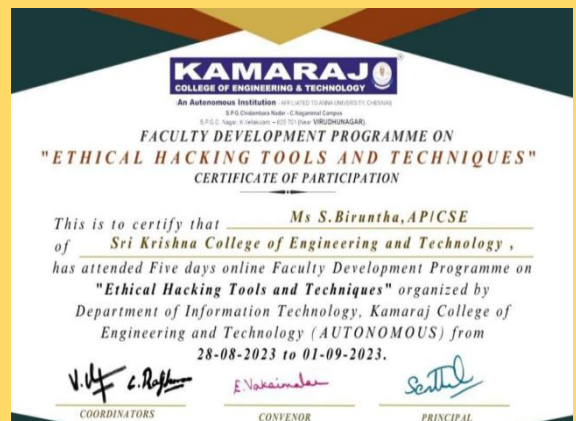
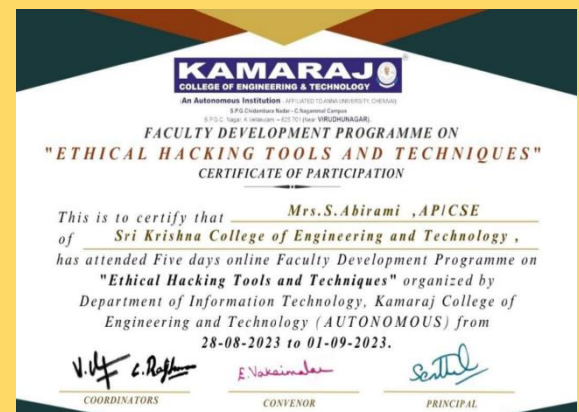
CSE | BLOCKCHAIN REVOLUTIONIZING AI



Dr.G.Vijaya, Professor, CSE has attended 5 days Online Faculty Development Program on **“Blockchain revolutionizing Artificial Intelligence”** from 21-8-2023 to 25-8-2023 organized by Apex Institute of Technology, Chandigarh University, Gharuan.

CSE | ETHICAL HACKING TOOLS & TECHNIQUES

Mrs.S.Abirami, Assistant Professor, and **Mrs.S.Biruntha**, Assistant Professor, CSE have attended 5 days Online Faculty Development Program on **“Ethical Hacking Tools and Techniques”** from 28-8-2023 to 1-9-2023 organized by the Department of Information Technology, Kamaraj College of Engineering and Technology.



IT | CLOUD INFRASTRUCTURE (AWS)



Dr.T.Keerthika, Associate Professor and **Ms.R.Janani** Assistant professor of IT have successfully attended the One week National level workshop on **Cloud Infrastructure (AWS)** from 21-08-2023 to 25-08-2023 in collaboration with Brainovision Solutions India Pvt Limited and AICTE organized by SKCET, Coimbatore.

M.TechCSE | INNOVATION AMBASSADOR TRAINING

Mr.S.Sreeraj, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has completed 30 hours of Faculty Innovation Ambassador (IA) advanced Level training Program conducted in online mode by MoE's Innovation cell in association with AICTE on 12.09.2023



CSBS | AICTE-BRAINOVISION FDP

SKCET has been highly appreciated by Brainovision and All India Council for Technical Education (AICTE) New Delhi for its significant contribution as a host college for the ground breaking **National Level Faculty Development Programme (FDP)** on Cloud Infrastructure organized from 21.8.2023 to 25.8.2023. The participation of our Institution has been instrumental in achieving the remarkable feat of securing a place in the **India Book of Records 2023** for the maximum participants of 28000+faculty from 400+ Colleges/ Universities from all over India. SKCET is one among the top 10 in the number of registrations category. Coordinators: **Dr.S.Balakrishnan**, HoD-CSBS, **Dr.P.Kavitha Rani**, HoD-M.Tech(CSE), **Mr.I.Anantraj**, AP-CSBS.



SOM | FACULTY PARTICIPATION - WEBINAR



Mr.C.Boopathy, Assistant Professor, **School of Management Studies** successfully Completed one day webinar on **EMPATHETIC LEADERSHIP** organized on 9th Sep 2023.

SKCET Buzz



Follow us
@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial



Feedback @
skcetbuzz@skcet.ac.in

ALUMNI CORNER



CSBS | INDUCTION SESSION - ALUMNI TALK



Department of **Computer Science and Business Systems** has Organized an Alumni Interaction with **Mr.S. Parvathy Nathan S**, Software Engineer –Search and Discovery, Quinbay Technologies, Coimbatore on 05.09.2023.

Session Takeaways:

- Expectations of IT industry from students of CSBS
- Exploring the E-commerce industry and its progression in INDIA
- Learning Applications like React, Node JS needed for job opportunities
- Importance of Technical subjects like Data Structures for real time projects
- Friendly interaction about the wide opportunities possible through participation in Hackathons

CYBER | INDUCTION SESSION - ALUMNI TALK

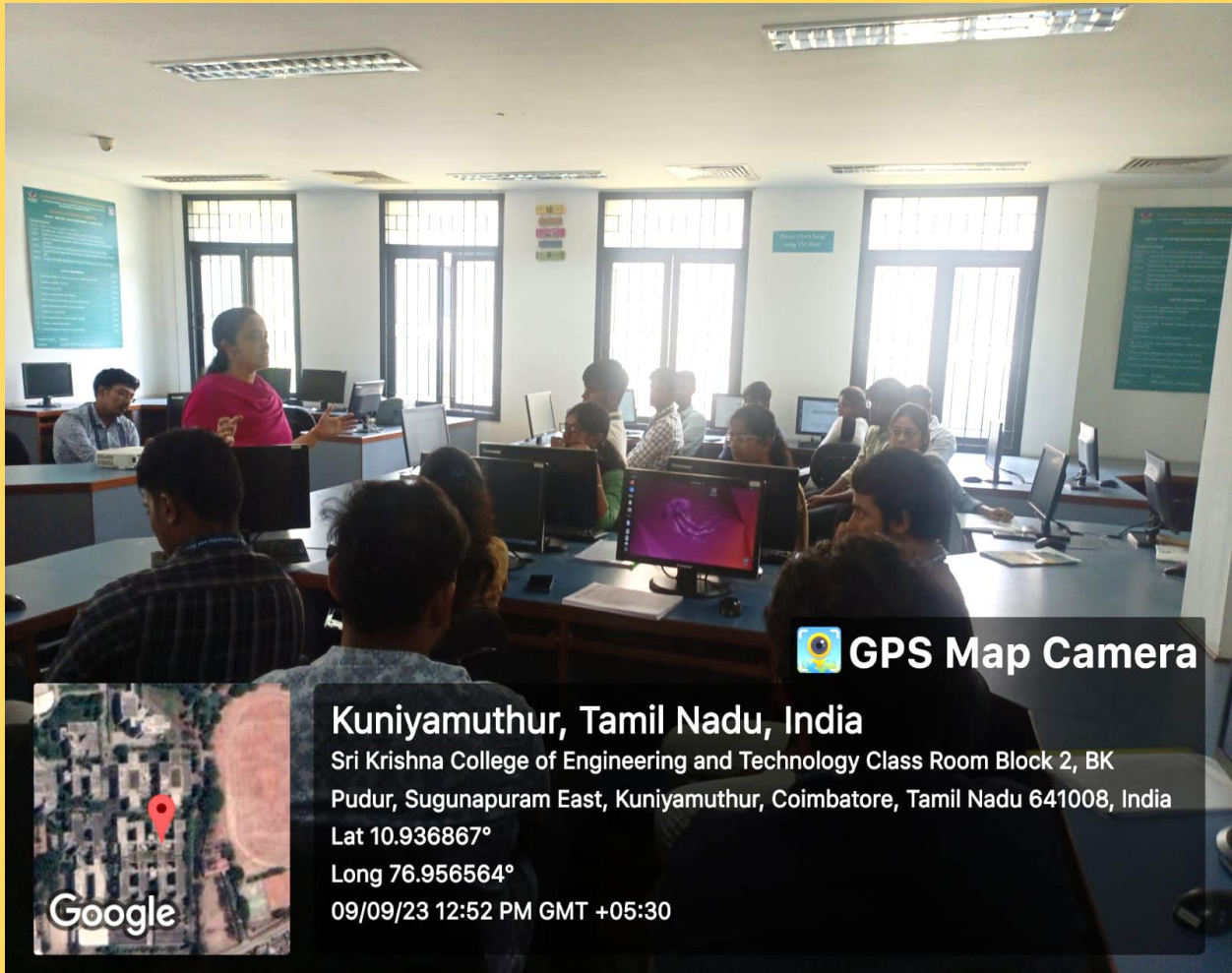


Department of **CSE (Cyber Security)** has Organized an Alumni Interaction with **Mr.S. Parvathy Nathan**, Software Engineer -Search and Discovery, Quinbay Technologies, Coimbatore

Session Takeaways

- Importance of IT Sectors
- Importance of Core subjects in relation to Cyber Security
- How to reshape student career towards industry
- Problem solving ethics
- Training Platform for coding
- Importance of Product based companies

IT | ALUMNI INTERACTION



Ms Bindhiya Ahmed, Leader - Support Engineering Management, Microsoft, Bengaluru, notable alumni of IT Department (1999-2002 Batch), addressed the students on "**Getting ready for and Mastering Interviews**" on 09-09.2023. She presented her unique insights offering practical advice and tactics to help students succeed in interviews. The event provided the students with real-world insights, giving them the confidence to succeed in their life.

EEE | HIGH FLIERS - ALUMNI INTERACTION



Mr. Cibi Chakravathy, Murugu Electrical, Gandhipuram, alumnus of the Department, batch: 2013-2017, addressed the First-year students.

Session Takeaways:

- Recognizing the significance of Electrical and Electronics in our Lives
- Understanding the vital Importance of Practical Training and Exposure
- Exploring different Electrical Systems used in our daily life
- Grasping the basics of Electrical Parameters for a Strong Foundation.

SKCET Buzz



Follow us
@



#skcetofficial



#skcetofficial



#skcet



#skcetofficial

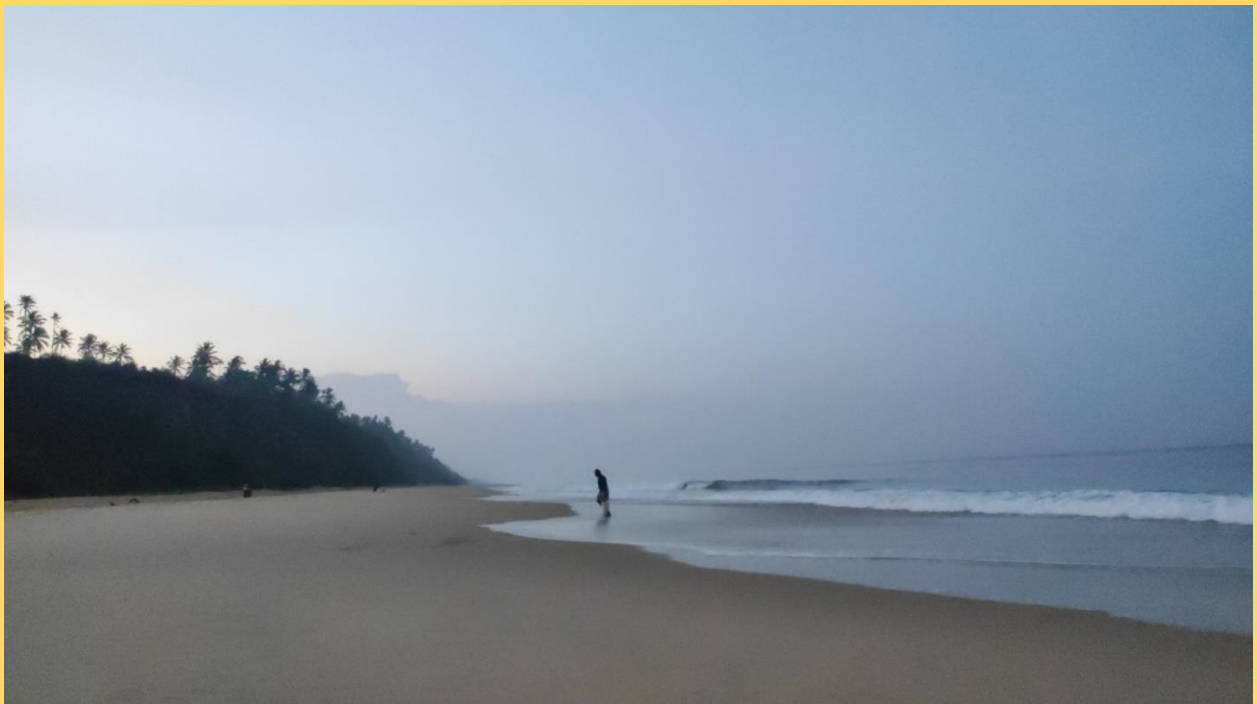


Feedback @
skcetbuzz@skcet.ac.in

CREATIVE CORNER



IT | CREATIVE CORNER



Pradeep Balaji L R

IV IT B

AI&DS | CREATIVE CORNER



S.JAYA HARISH

II AI&DS

AI&DS | CREATIVE CORNER



THARUN KUMAR M

I AI & DS B

AI&DS | CREATIVE CORNER



PRAVIN RAJ S

I AI & DS B