SKCET Buzz

12th - 18th August 2023

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INSTITUTIONAL EVENTS

SKCET | INDEPENDENCE DAY 2023

SKCET: CELEBRATING 77th INDEPENDENCE DAY
Special day of rejoicing!!

77th Independence Day was celebrated with great enthusiasm and patriotism at SKCET. The event aimed to commemorate the nation's journey towards freedom and reflect on the progress made since attaining independence.

Dr.K.Sundararaman, CEO, SKI was the Chief Guest of this ceremonious event. Principal Madam **Dr.J.Janet** presided over the ceremony. With great zeal and respect for our nation, Indian Tricolor Flag was hoisted.

SKCET | INDEPENDENCE DAY 2023

Dr.K.Sundaraman, CEO, SKI delivered an insightful speech about the Indian Economy and highlighted the importance of automation which lies in the hands of the budding engineers.

SKCET | INDEPENDENCE DAY 2023

As a gesture to symbolize the loyalty to the nation, National pledge was administered by our faculty members and students.

SKCET | INDEPENDENCE DAY 2023

A journey through the rich tapestry of our nation's history and culture through dance and patriotic song by our SKCET student's crew.

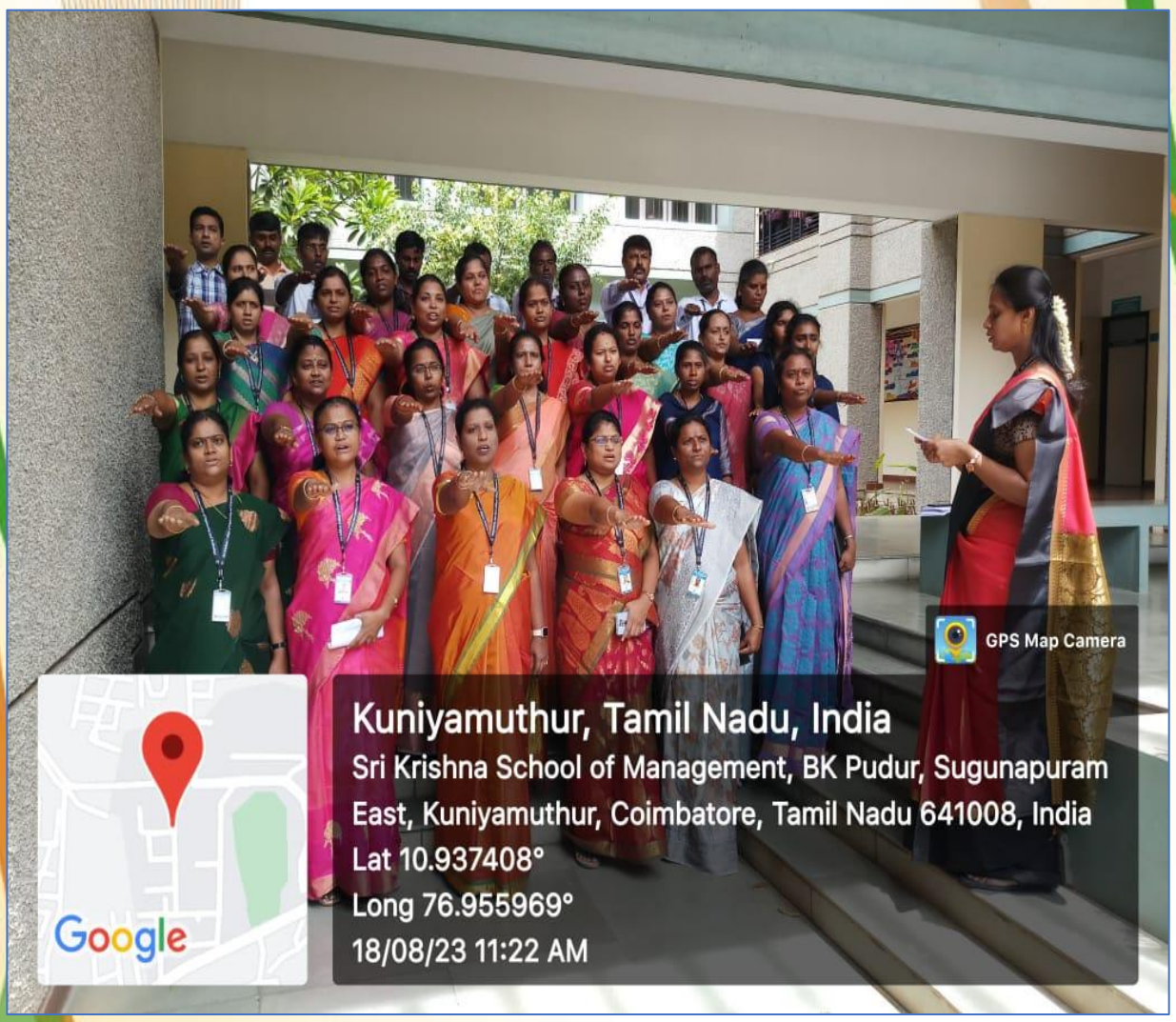
SKCET | INDEPENDENCE DAY 2023

The day was filled with pride and glory when we reminisce the journey that our country undertook.

SKCET | DRUG FREE COIMBATORE - CYCLING

14 students of **SKCET** participated in **"Let us make Drug free Coimbatore"** 76 Kms cycling event organized by Coimbatore City Police on 12.08.2023. The event was flagged off by our Coimbatore City Police Commissioner **Sri. Balakrishnan** at 5.45 am in the presence of **Sri. K. Adithya**, Trustee, Sri Krishna Institutions at Coimbatore City Police Commissioner office. Around 100 cyclists along with the police officials from Coimbatore City Police Department participated in the event.

SKCET | SADBHAVANA DIWAS PLEDGE



As a tribute to Rajiv Gandhi's contribution in promoting communal harmony, national integration and peace Sadhbhavana pledge was administered at SKCET.

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STUDENT ACCOLADES

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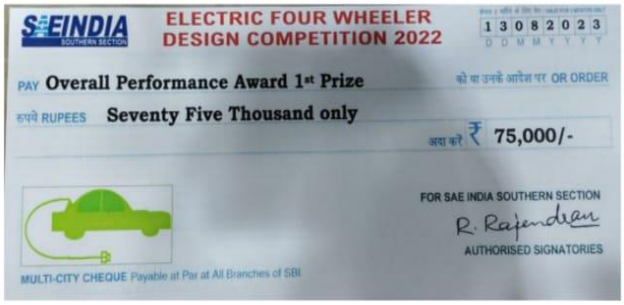
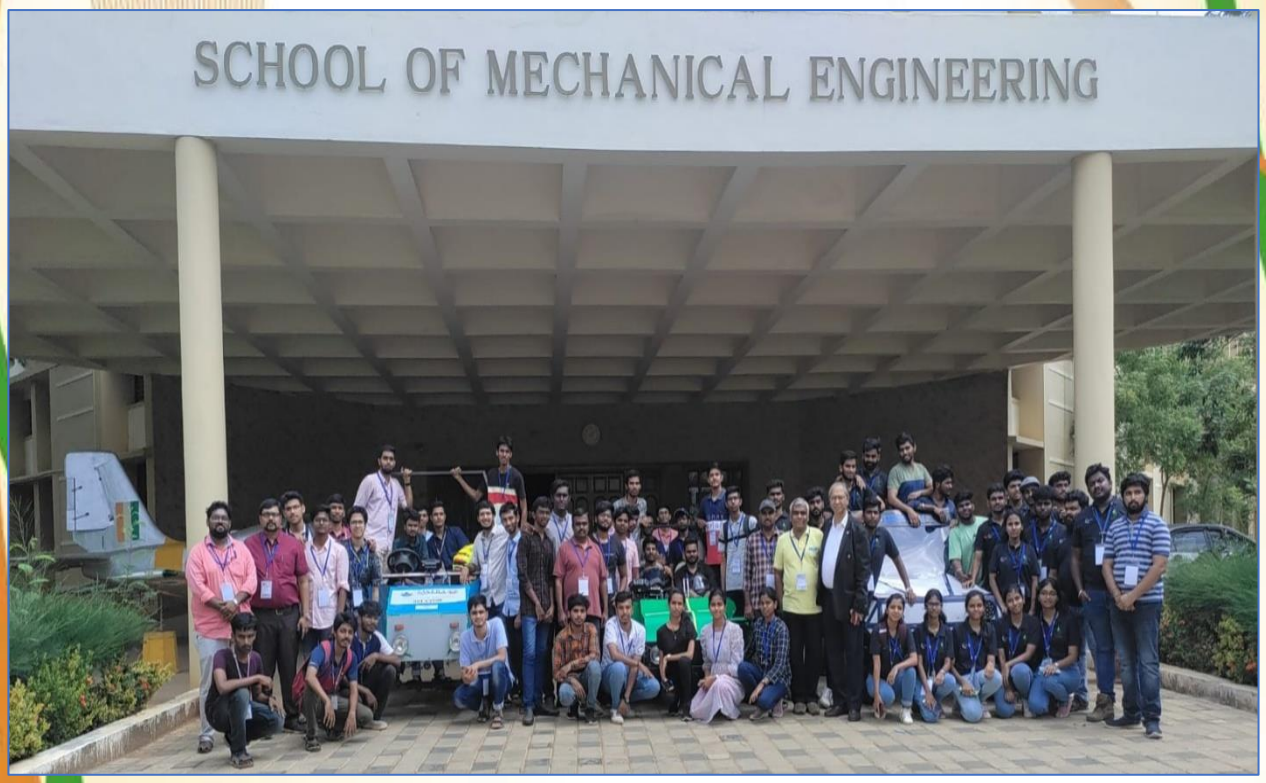
MECH & EEE | NATIONAL LEVEL ELECTRIC FOUR-WHEELER DESIGN COMPETITION



Team **Gepard Racing** Electra comprising of 25 students from the Department of **Mechanical Engineering** and **Electrical & Electronics Engineering** representing SAEINDIA SKCET Collegiate Club has secured **Overall First Prize** with a cash amount of **Rs. 75000/-** in the National Level Electric Four-Wheeler Design Competition (EFWDC 2023) organized by SAE India Southern Section from 12.08.2023 to 13.08.2023 hosted at Sastra University, Thanjavur. The team was mentored by **Dr.R.Soundararajan**, Professor and **Mr.A.Sathish Kumar**, Assistant Professor, Mechanical Engineering.

MECH | NATIONAL LEVEL ELECTRIC FOUR-WHEELER DESIGN COMPETITION



Team Members

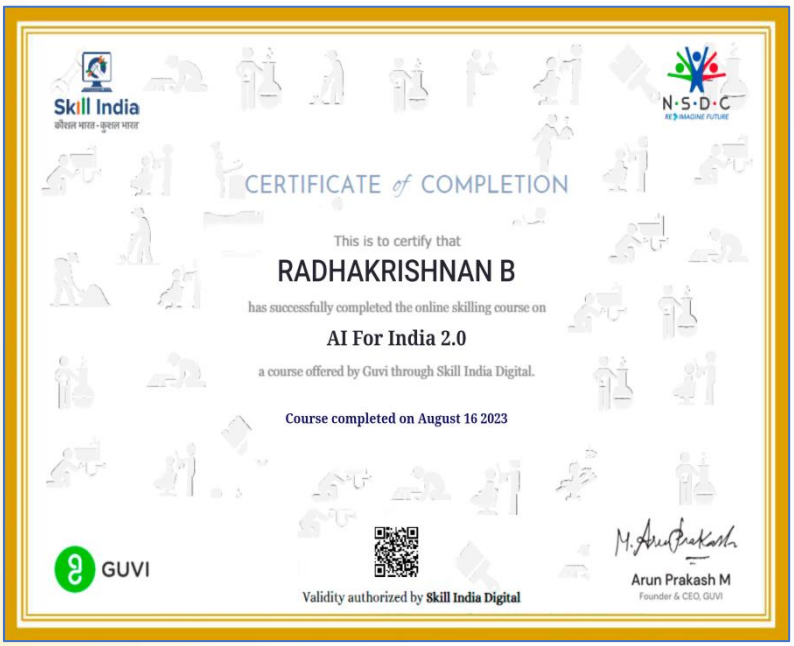
Sakthivel S - IV Mech
Sanjay Kumar P - IV Mech
Hamshavardhan S - IV Mech
Shanjai Prakash M- IV Mech
Vajin Raman M - IV Mech
Sankaranaraynan SK - IV Mech
Sanjay N - IV Mech
Pravin D - IV Mech
Mahi Karthick G - IV Mech
Ruba Vignesh- IV Mech
Prajwal PG Shastry- IV Mech
Iniyen V- IV Mech
Induprakash S - IV Mech
Monish A - III Mech
Mithun KV - III Mech
Muthuvel S - III Mech
Saba Nadesan - III Mech
Nishanth AC - III Mech
Koussigan R- III Mech
Swetha A - III Mech
Ishwarya SV - III Mech
Sowmitha P - III Mech
Santhipkumar S - III EEE
Vivin SR - III EEE
Ranjith Kumar V - III EEE

CSBS | PEGA CERTIFICATION

Karthik Sivanesan.M, student of **Final** year, **Computer Science and Business System**, has been recognized as **"Certified Pega System Architect"** by PEGA on 11.08.2023.

CSE | SKILL INDIA CERTIFICATION

Radhakrishnan B, student of **Third** year **CSE** has successfully completed an online skilling course on "**AI For India 2.0"** a course offered by GUVI through Skill India Digital on August 16th 2023.



CSE | INFOSYS CERTIFICATION


Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

RAKSHAPRIYAN V P

for successfully completing the course

Introduction to Natural Language Processing

on August 13, 2023

Infosys | Springboard

Congratulations! You make us proud!

Thirumala Arohi
Senior Vice President and Head
Education, Training and Assessment (ETA)
Infosys Limited

Issued on: Sunday, August 13, 2023
To verify, scan the QR code at https://verify.onwingspan.com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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

RAKSHAPRIYAN V P

for successfully completing the course

Computer Vision 101

on August 12, 2023

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Senior Vice President and Head
Education, Training and Assessment (ETA)
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Issued on: Wednesday, August 16, 2023
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COURSE COMPLETION CERTIFICATE

The certificate is awarded to

RAKSHAPRIYAN V P

for successfully completing the course

Introduction to Deep Learning

on August 14, 2023

Infosys | Springboard

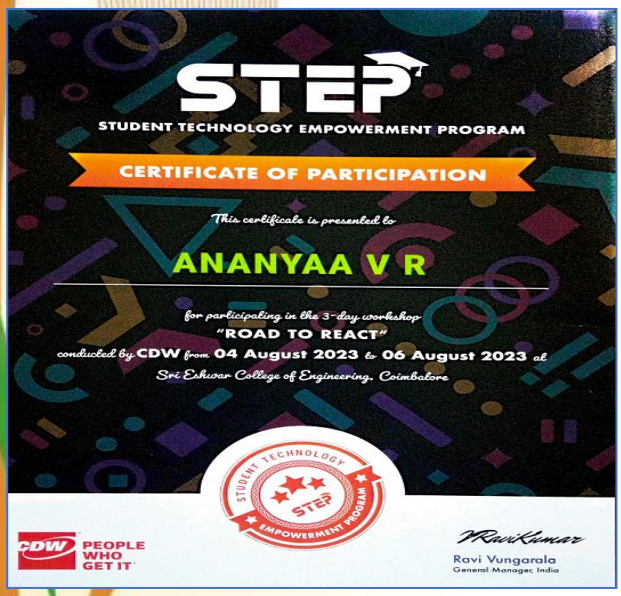
Congratulations! You make us proud!

Thirumala Arohi
Senior Vice President and Head
Education, Training and Assessment (ETA)
Infosys Limited

Issued on: Wednesday, August 16, 2023
To verify, scan the QR code at https://verify.onwingspan.com

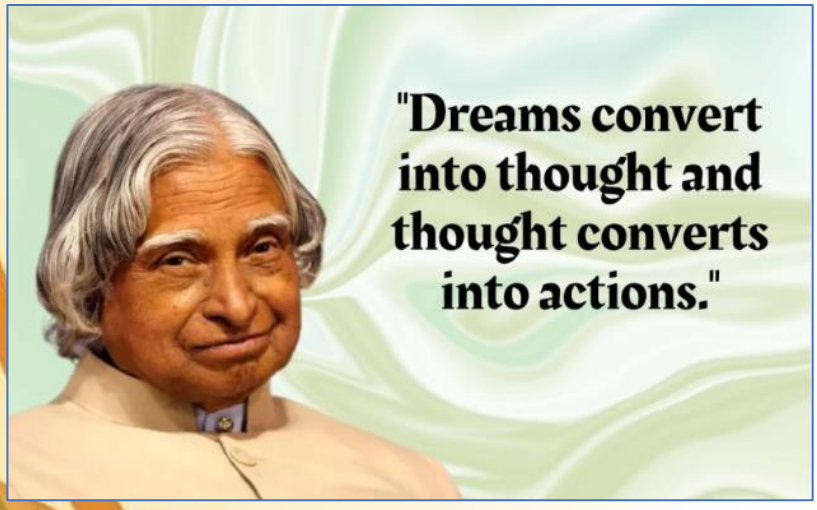
Rakshapriyan V P, student of **Third** year **CSE B** has completed Infosys Spring Board Certifications courses on **Introduction to Natural Language Processing, Computer Vision 101 and Introduction to Deep Learning.**

AI&DS | WORKSHOP ON ROAD TO REACT



Ananyaa V R and **Karnam Mukesh**, students of **Third** year **AI & DS**, participated in the Three-day Workshop on **"Road To React"** conducted by CDW from 4th August 2023 to 6th August 2023 at Sri Eshwar College of Engineering, Coimbatore.

LEGENDARY INSIGHTS



ECE | IN-PLANT TRAINING

07.07.2023

CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Ms. SASIREKHA R** student at **SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY** has undergone In-Plant Training in Manufacturing Operations for the period from **12.06.2023** to **30.06.2023**.

She has displayed professional acumen during the period of In-plant Training and we appreciate her interest in learning.

We wish her all success in her future endeavours.

For Lenovo (India) Pvt. Ltd.

Authorized Signatory

07.07.2023

CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Ms. VISHNU PRIYA R** student at **SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY** has undergone In-Plant Training in Manufacturing Operations for the period from **12.06.2023** to **30.06.2023**.

She has displayed professional acumen during the period of In-plant Training and we appreciate her interest in learning.

We wish her all success in her future endeavours.

For Lenovo (India) Pvt. Ltd.

Authorized Signatory

07.07.2023

CERTIFICATE OF IN-PLANT TRAINING

This is to certify that **Ms. G K SUSMITHA** student at **SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY** has undergone In-Plant Training in Manufacturing Operations for the period from **12.06.2023** to **30.06.2023**.

She has displayed professional acumen during the period of In-plant Training and we appreciate her interest in learning.

We wish her all success in her future endeavours.

For Lenovo (India) Pvt. Ltd.

Authorized Signatory

Following students from the department of **ECE** have successfully completed an In-Plant Training in **Manufacturing Operations in Lenovo (India) Pvt. Ltd.** from12.06.2023 to 30.06.2023.

- Sasirekha R
- Vishnu Priya R
- Susmitha G K

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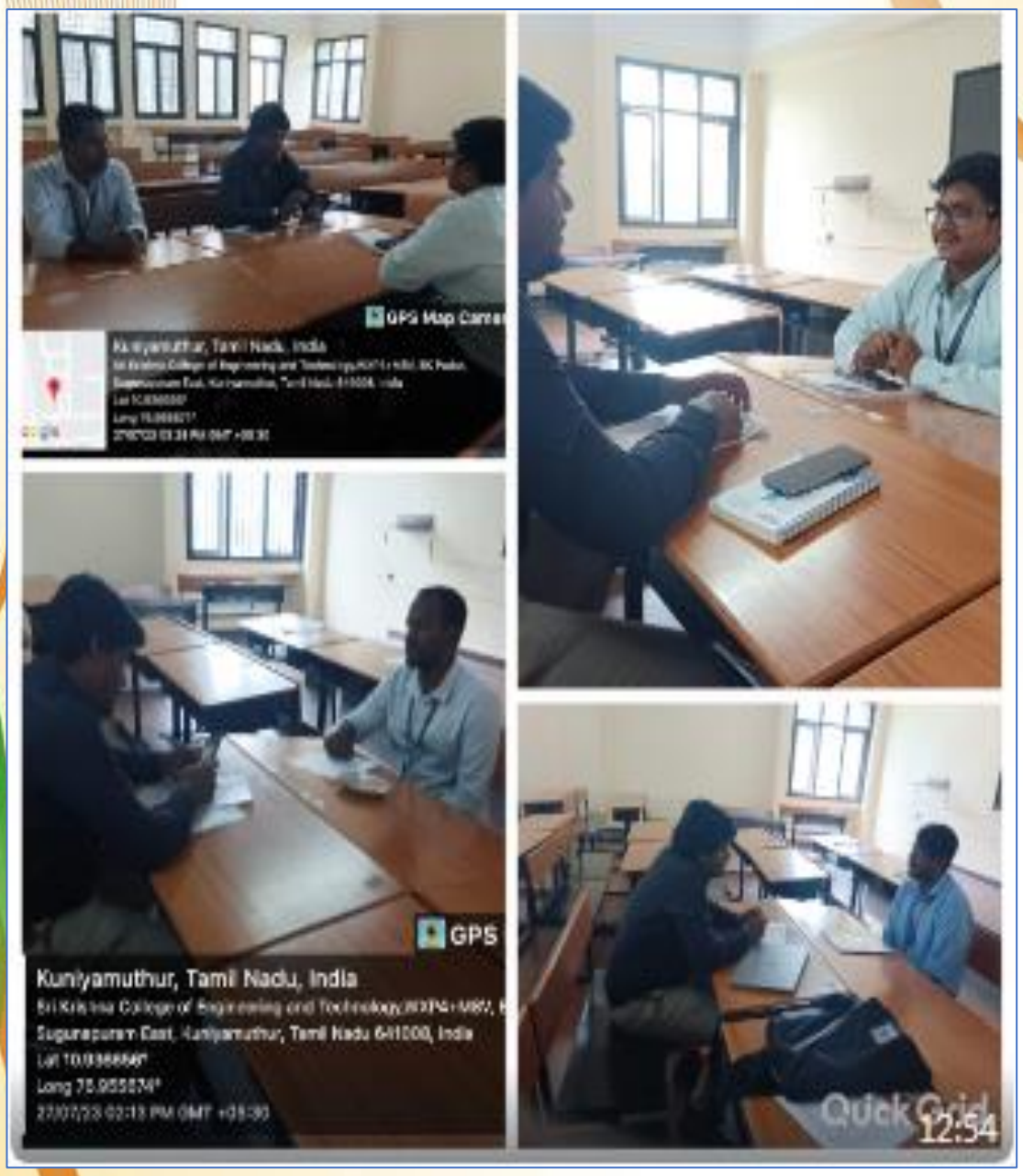
CIVIL | SEMINAR ON STEEL DETAILING USING TEKLA STRUCTURES

Civil Engineering Department organised a seminar on **"Steel Detailing using Tekla Structures"** for the **Final** year **Civil Engineering** students on 3rd August 2023. The resource person was **Ms. K. R. Sowmya**, Desing Analyst, Institute of Industrial Design, Chennai.

Session Takeaways:

- Overview of Pre-Engineered Buildings and Pipe Rack Structures
- Steel connections and Steel sections available in market
- Detailing of steel structures and connections in Tekla Softwares
- Scope for Civil Engineering students in Tekla Softwares.

MCT | FLICKERHIVE INTERNSHIP DRIVE



Mr.Anand Bala Ganapathy, Founder and CEO, Flickerhive Coimbatore, prominent alumnus of 2017-21 batch MCT conducted internship drive interview for the Final year students.

MCT | CAREER GUIDANCE PROGRAM

Mr.Swadesh, our Distinguished Alumni, (2017-2021 batch), pursuing MS in Systems Control and Mechatronics at Chalmers University, Sweden, addressed the Final year students.

Session Highlights:

- Various career options in higher studies after UG.
- Competitive exams like CAT, GMAT, GRE, IELTS and eligibility.
- Procedure & Eligibility parameters to apply German universities.
- Job opportunities after higher studies.
- Selection of courses and Internship offers in Sweden.

MECH | ONE DAY STUDENT STUDY MISSION

Bavithran R S and **Akash V M**, Third year students from the department of **Mechanical Engineering** along with **Dr. M. Vigneshkumar**, Assistant Professor, Mechanical Engineering participated in an '**Exclusive One Day Student Study Mission to Chennai'** organized by the Education Panel of CII Coimbatore Zone. The visit included two prominent industries - Global Automotive Research Centre (GARC) and Danfoss Industries. The visit to these two industries went beyond broadening the students' understanding of practical applications in their field of study. It also facilitated networking opportunities and provided inspiration through exposure to successful industrial practices.

MECH | NBA EXTERNAL AUDIT

NBA external audit was organized for Department of **Mechanical Engineering**. **Dr. V Prabhu Raja**, Professor, Mechanical Engineering, PSG College of Technology was the external auditor. He audited the files and visited the laboratories.

M.Tech CSE | SERVICE NOW FDP VALEDICTORY

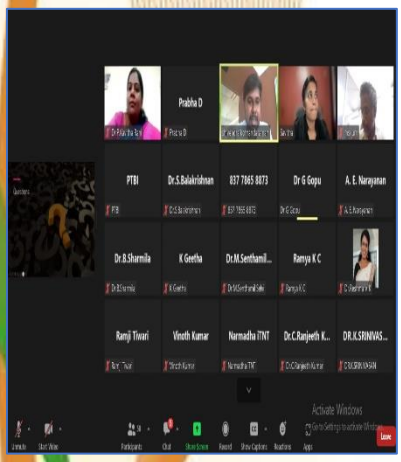
Valedictory Session for the 9 days FDP on **SeviceNow Application Developer** was conducted by **M.Tech CSE** on August 12th, 2023. Participations from both Puducherry and Coimbatore received an industry-recognized certificate worth $300 upon successfully completing the assessment. This certificate could potentially hold value for their career prospects and showcase their proficiency in ServiceNow application development.

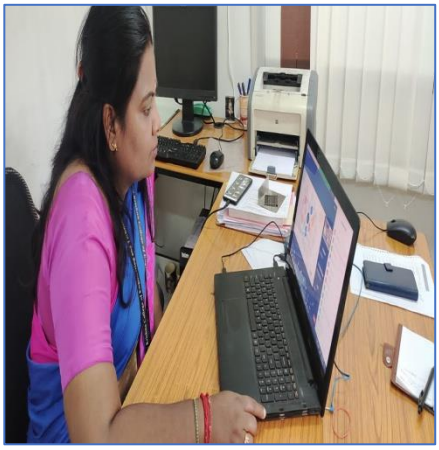
Resource Person: Mr.M.Senthil, Senior Technical Trainer, ICT Academy.

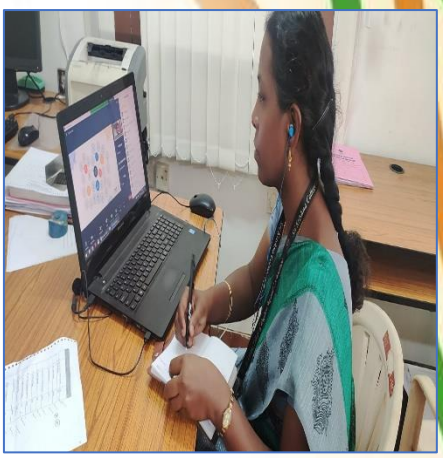
Session Takeaways:

- Overview on Application Developer
- Micro Certification
- UI Form Design in System Administration.
- Scripting implementation in service catalog.
- Application Development through employee center.
- Visual Task Board.
- Dot-walking Icon.
- GlideForm and GlideUser.

M.Tech CSE | iTNT CAPACITY BUILDING PROGRAM







iTNT Hub and SKCET initiated the First phase of **Capacity-Building Program** as a part of the **Innovation Network** was conducted through online mode on **12.08.2023** to initiate the industry engagements. iTNT invited 18 Professors from our Institution to foster deeper engagement, aiming to establish a world-class R&D&I ecosystem that bridges the Industry, Government and Academia along with **Dr. Savitha Ramasamy,** Principal Scientist, Singapore's Premier R&D&I center, Singapore and **Mr.Shivendra Kothandaraman**, Manager, Innovation Network Tamil Nadu Technology (iTNT), Chennai.

Session Highlights:

- Project Management and Collaborative research for Industry problems.
- Research Contribution by the Institution and Industry.
- Dataset, Problem statement and multi-disciplinary approach for solution.
- Bridging the gap - Cultural Differences: Academia and industry expectations.

MCT | YOUTH FUSION FIESTA

On the occasion of **International Youth Day**, Department of **Mechatronics Engineering** organized a **"Youth Fusion Fiesta"** on 12th August 2023 with an aim to help the students to sharpen their extra-curricular and creative minds. The students enthusiastically participated in the following events

- Pictowar
- Mute Masquerade
- Ink & Imagination

The Winners and participants were appreciated with certificates.

CSE | UNLEASH THE POWER OF REACT NATIVE TO BUILD MOBILE APPS

The Department of Computer Science and Engineering organized a workshop on "**Unleash the Power of React Native to Build Mobile Apps**" on 11.08.2023, providing participants with practical insights into cross-platform app development. Third year students gained expertise in React Native's architecture, UI components, and integration with APIs.

Resource Person :
Ms.SumaChandrasehar
Senior Software Engineer
HCL Technologies,
Chennai

Session Takes away:

- Overview on React Native
- How Demographic Filtering done
- How Content Based Filtering done
- Evaluation of Weighted Rating & Cosine Similarity
- Build Flask Mockup API
- React Native App Prototype model
- Scope & Future of React Native.

AI&DS | GUEST LECTURE ON FUTURE CAREER PROSPECTS

Department of **AI&DS** organized a Guest Lecture on **"Future Career Prospects in Higher Education Abroad"** on 08.08.2023

Chief Guest:

Mr.K.Pranav
Business Development Manager
Educational Testing Service
Coimbatore.

Session Takeaways:

- Eligibility Criteria to Study Abroad for Indian Students
- Scholarship available for higher education in abroad
- Career opportunities in various countries
- Internships and job offers in abroad.

AI&DS | GUEST LECTURE

Department of **Artificial Intelligence and Data Science** organized a Guest lecture on **"Unleashing Entrepreneurial Excellence: Navigating the path to Success"** in MCA Seminar Hall on 14.08.2023 by 9.00A.M.

Resource Person:

Mr.Karthik Rengarajan, Entrepreneur and Speaker, Freelancer, Coimbatore.

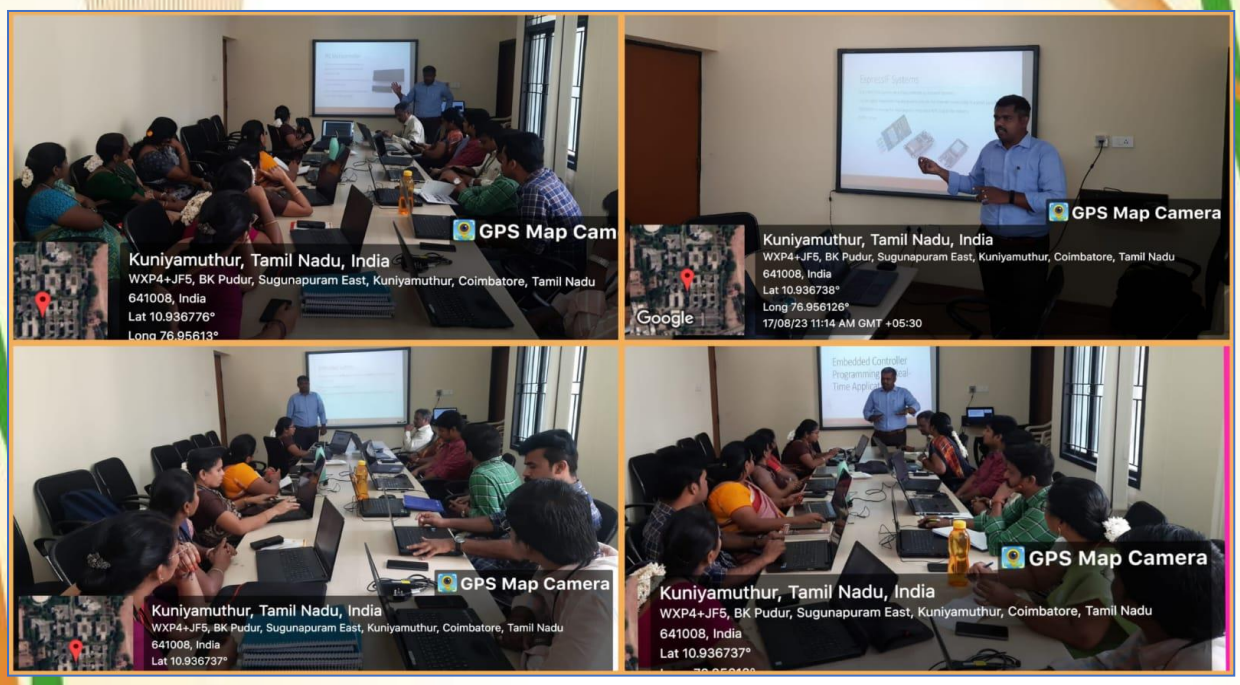
Session Takeaway:

- Definition of Entrepreneur
- Entrepreneurial Motivation and Barriers
- Development of Entrepreneurship
- Stages in Entrepreneurial process
- Management Skills
- Collaborative activity

AI&DS | HOD INTERACTION

Dr.S.Venkata Lakshmi, HoD, **AI&DS** interacted with the **Third** year **AI&DS** students. The pointers of discussion were: maintaining discipline inside the campus, punctuality, hackathon participation, co-curricular and extra-curricular activity.

EEE | FDP ON EMBEDDED CONTROLLER PROGRAMMING FOR REAL TIME APPLICATIONS



Department of **Electrical Electronics and Engineering** organized a **Two days FDP** on **'Embedded Controller Programming for Real Time Applications**' from 17.08.2023 to 18.08.2023. Faculty Members and Research Scholars from various disciplines participated.

Resource Person: Dr. Gowri Shankar Thangavelu, Senior Project Manager, Robert Bosch, Coimbatore

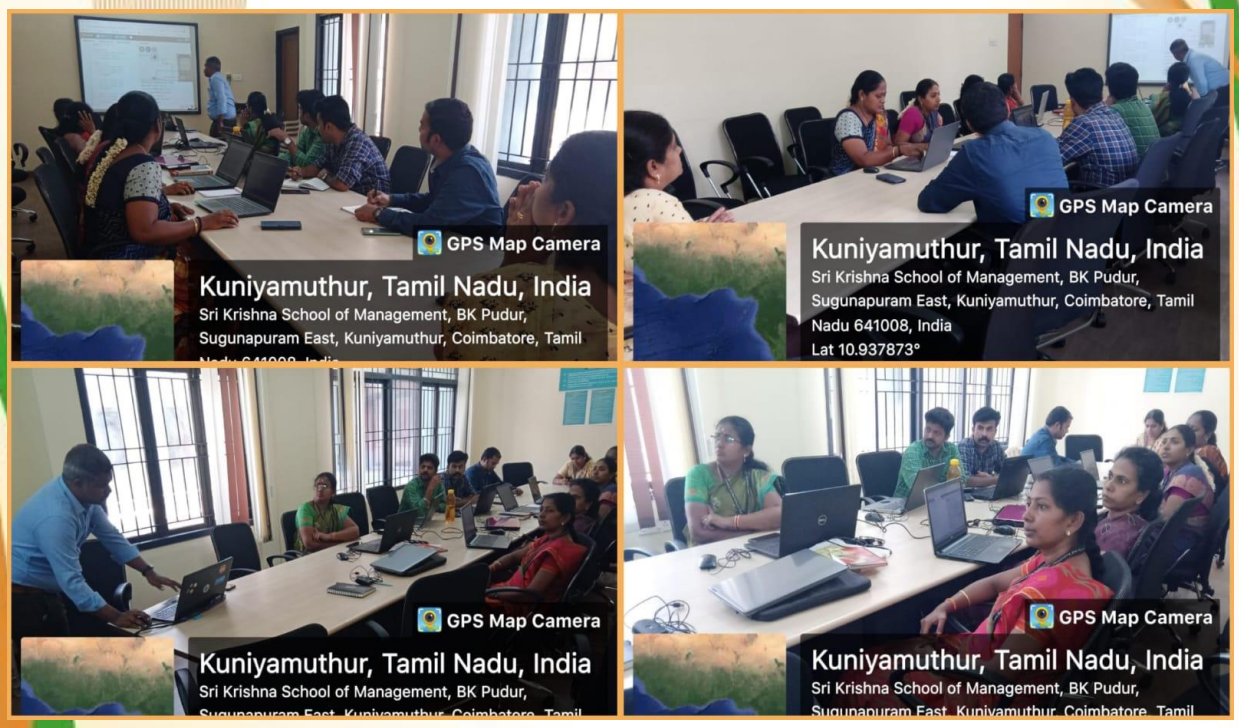
Day 1: Session 1

Embedded Realtime Controller for Industrial Drives

Session Takeaways:

- Embedded controllers and their Industrial applications
- Microcontroller versus SOC
- Express IF System
- Programming Language for Embedded Controller
- Python Language in Embedded Controller and its merits
- Specific features of RUST in Industrial Control
- Python Program Hands-on in Embedded Controller

EEE | FDP ON EMBEDDED CONTROLLER PROGRAMMING FOR REAL TIME APPLICATIONS



Resource Person: Dr. Gowri Shankar Thattngavelu, Senior Project Manager, Robert Bosch, Coimbatore

Day 1: Session 2

Coding on Realtime Applications and Comparison of Development Platforms

Session Takeaways:

- Real Time people tracking system using Jetson Nano
- Design of Embedded- based Irrigation System,
- Design of Embedded-based Abnormal Health Alert System using Raspberry pi
- Remote Measurement and Control System for Greenhouse
- UPS Battery Management for Industries using GSM
- Application Development Platforms - A comparison

IT | HIGHER EDUCATION CELL

Mr.Lakshmi Narayanan, Secretary, Global Education and Career Forum (GECF) and **Mr.Nirmal**, Manager, Institutional Counseling Services, Education Matters had interaction with our final year students on 16th August 2023 at BS 03 Seminar Hall. Students who are willing to pursue higher studies in abroad attended the session. In the session, they elaborated about the English Language Qualification (ELQ) Scholarships for the academic year 2023 - 2024. The main benefits are processing fee waiver, free IELST coaching, refund of IELTS, TOEFL, PTE exam fees, SOP editing fee waiver. They also had one to one interaction with the students for clarifying their doubts and requirements.

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RESEARCH & DEVELOPMENT

R&D

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R&D | JOURNAL PUBLICATION | CIVIL

Green Iron Integrated Electrokinetics for the Remediation of Textile Wastewater Contaminated Soil

Document Type : Research Article

Authors

Chandra Devi Raman ✉; Hemavathi R

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

10.30492/IJCCE.2023.1986921.5809

Abstract

The environmental pollution due to textile industries in developing countries emphasizes the need for environmental protection and restoration. It is mandatory to identify an economic and sustainable remediation technique for the textile wastewater-contaminated soil. Several integrated protocols of electrokinetics with bare and green iron were investigated in this study. Out of all, green iron injection into the cathode reservoir after electrokinetics experiment was found efficient. This green iron integrated electrokinetics removed 83% of total organic carbon (TOC) and 80% of electrical conductivity (EC) from the soil and further treated collected residual textile dyes using green iron in the cathode reservoir. The potential of this green iron integrated electrokinetics was found efficient in the separation of organic contaminants from the soil through electrokinetics and the reduction of organic contaminants using green iron. The chemical oxygen demand (COD) of the catholyte was reduced to 212 mg/L which is within the acceptable limits (250 mg/L) for discharge as per Indian standards. The major reactions and mechanisms involved in the remediation of textile wastewater contaminated soil using iron integrated electrokinetics were discussed. The cost estimated for the proposed integrated electrokinetics is 28 $/m3 however the existing electrokinetics remediation technology requires 90-275$ to treat 1 m3 of soil. Thus, the proposed remediation technique is found efficient, economical, and eco-friendly compared to the existing technologies.

Keywords

Soil remediation; integrated electrokinetics; green iron; textile wastewater contamination

IJCCE

Articles in Press, Accepted Manuscript Available Online from 11 July 2023

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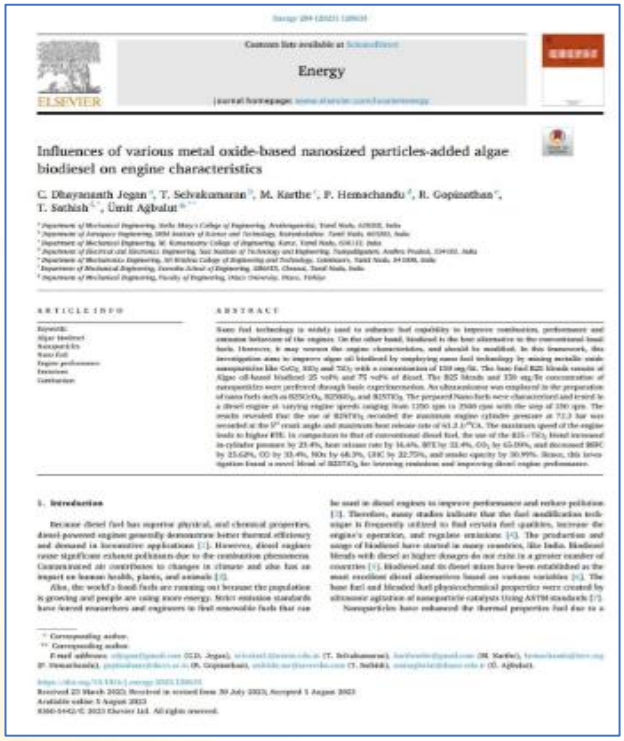
Statistics

Article View: 44

Dr.R.Chandra Devi, Associate Professor and **Ms. R. Hemavathi**, Assistant Professor, Department of **Civil Engineering**, have published a research article titled "**Green iron integrated electrokinetics for the remediation of textile wastewater contaminated soil"** in the Iranian Journal of Chemistry and Chemical Engineering (IJCCE). It is indexed in Scopus and WoS.

R&D | PAPER PUBLICATION | MCT

Dr.R.Gopinathan, Associate Professor, **MCT** has published a paper entitled **"Influences of various metal oxide – based nanosized particles – added algae biodiesel on engine characteristics"** in Energy (Elsevier) journal. It is an SCI and Scopus Indexed publication with an impact factor of 9.00.



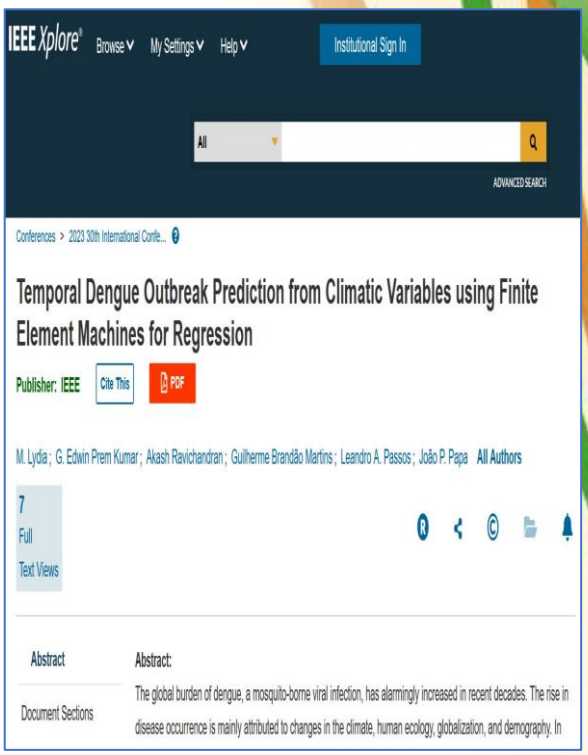
Energy

Influences of various metal oxide-based nanosized particles-added algae biodiesel on engine characteristics

C. Dhayananth Jegan, T. Selvakumaran, M. Karthe, P. Hemachandu, R. Gopinathan, T. Sathish, Ümit Ağbulut

R&D | PAPER PUBLICATION | MCT / IT

Dr.M.Lydia, HoD, **MCT** and **Dr. G. Edwin Prem Kumar,** Professor, **IT,** have published a paper entitled **"Temporal Dengue Outbreak Prediction from Climatic Variables using Finite Element Machines for Regression"** which was presented in the 30th International Conference on Systems, Signals and Image Processing held during 27 - 29 June 2023, Ohrid, North Macedonia and published in IEEE Xplore. It is a scopus indexed publication.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Temporal Dengue Outbreak Prediction from Climatic Variables using Finite Element Machines for Regression

Publisher: IEEE Cite This PDF

M. Lydia; G. Edwin Prem Kumar; Akash Ravichandran; Guilherme Brandão Martins; Leandro A. Passos; João P. Papa All Authors

7 Full Text Views

Abstract

Document Sections

Abstract:

The global burden of dengue, a mosquito-borne viral infection, has alarmingly increased in recent decades. The rise in disease occurrence is mainly attributed to changes in the climate, human ecology, globalization, and demography. In

R&D | PAPER PUBLICATION | MECH


M. Vinoth Kumar, C. Rajendran, V. Balasubramanian

Microstructure and Pitting Corrosion Characteristics of Tig Welded Joints of Super 304HCu Austenitic Stainless Steel

Gefügeeigenschaften und Lochkorrosionsverhalten von WIG-Schweißverbindungen aus rostfreiem austenitischem Edelstahl Super 304HCu

Received: 08.11.2022
Accepted: 07.06.2023

Eingegangen: 08.11.2022
Angenommen: 07.06.2023
Übersetzung: Edda Engert

Abstract

Super 304HCu is an advanced ultra-super critical (A-USC) boiler grade austenitic stainless steel with the distinct addition of 3 wt.-% of Copper. A-USC power plants intended to operate in chloride rich environments (sea shore, feed water residues, etc.) are susceptible to chloride assisted corrosion failures. In this study, the pitting corrosion behaviour of the Super 304HCu parent material and tungsten inert gas weld joints

Kurzfassung

Super 304HCu ist ein für Kraftwerke mit fortgeschrittener ultra-superkritischer Technologie (Advanced Ultra Supercritical, A-USC) geeigneter rostfreier austenitischer Kesselstahl, dem 3 Gew.-% Kupfer zugegeben wurden. Für einen Betrieb in einer chloridhaltigen Umgebung (Küste, Speisewasserrückstände etc.) vorgesehene A-USC-Kraftwerke, sind anfällig für unter Einwirkung von Chlorid entstehende Korrosionsschäden. In vorliegender Untersu-

Author:

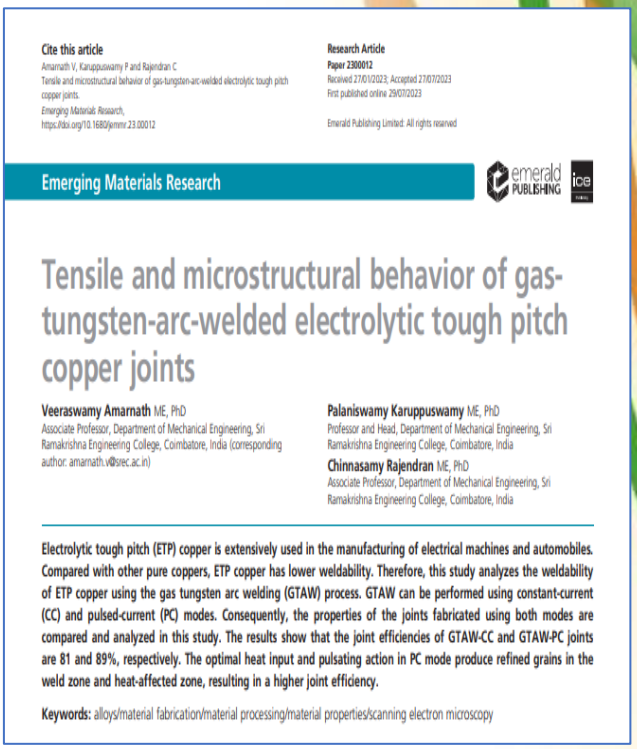
Mari Vinoth Kumar Department of Mechanical Engineering, Hindustan Institute of Technology and Science, Chennai, India; Email: vinothmecho@gmail.com
Chinnasamy Rajendran Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore-641008
Visvalingam Balasubramanian Director Research and Development, Annamalai University, Annamalai Nagar, India

DE GRUYTER Pract. Metallogr. 60 (2023) 8 519

Dr.C.Rajendran, Associate Professor, **MECH** has published a scientific article entitled **'Microstructure and pitting corrosion characteristics of Tig welded joints of super 304HCu Austenitic stainless steel'** in Practical Metallography – A De Gruyter Publications. It is a SCI, WoS and Scopus Indexed Journal. The journal is also listed in Anna University Annexure 1 list.

R&D | PAPER PUBLICATION | MECH

Dr.C.Rajendran, Associate Professor, **MECH** has published a scientific article entitled **'Tensile and microstructural behavior of gas tungsten arc welded electrolytic tough pitch copper joints'** in Emerging Materials Research – An Emerald Publications. It is a SCI, WoS and SCOPUS Indexed Journal with Impact Factor – 2.2. The journal is also listed in Anna University Annexure 1 list.



Cite this article
Amarnath V, Karuppuswamy P and Rajendran C
Tensile and microstructural behavior of gas-tungsten-arc-welded electrolytic tough pitch copper joints.
Emerging Materials Research,
https://doi.org/10.1680/jemmr.23.00012

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Paper 2300012
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First published online 29/07/2023

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Emerging Materials Research

Tensile and microstructural behavior of gas-tungsten-arc-welded electrolytic tough pitch copper joints

Veeraswamy Amarnath ME, PhD
Associate Professor, Department of Mechanical Engineering, Sri Ramakrishna Engineering College, Coimbatore, India (corresponding author: amarnath.v@srec.ac.in)

Palaniswamy Karuppuswamy ME, PhD
Professor and Head, Department of Mechanical Engineering, Sri Ramakrishna Engineering College, Coimbatore, India

Chinnasamy Rajendran ME, PhD
Associate Professor, Department of Mechanical Engineering, Sri Ramakrishna Engineering College, Coimbatore, India

Electrolytic tough pitch (ETP) copper is extensively used in the manufacturing of electrical machines and automobiles. Compared with other pure coppers, ETP copper has lower weldability. Therefore, this study analyzes the weldability of ETP copper using the gas tungsten arc welding (GTAW) process. GTAW can be performed using constant-current (CC) and pulsed-current (PC) modes. Consequently, the properties of the joints fabricated using both modes are compared and analyzed in this study. The results show that the joint efficiencies of GTAW-CC and GTAW-PC joints are 81 and 89%, respectively. The optimal heat input and pulsating action in PC mode produce refined grains in the weld zone and heat-affected zone, resulting in a higher joint efficiency.

Keywords: alloys/material fabrication/material processing/material properties/scanning electron microscopy

R&D | PAPER PUBLICATION | ECE

ieeexplore.ieee.org/document/10199788
Conferences > 2023 International Conference...

Implementation of Discrete Wavelet Transform for Image Compression

Publisher: IEEE | Cite This | PDF

R. Sarath Kumar ; R.S. Sreyaniketha ; K.S. Tamilnilavan All Authors

Abstract
Document Sections
I. Introduction
II. Background
>> III Wavelet Transform Based Image Compression
IV. Image Compression Using Dwt
V. Experimental Result
Show Full Outline
Authors
Figures
References

Abstract:
It presents discrete wavelet transform (DWT) for image compression. The image compression system was built or not or more or more or now, the special image will be reconstructed and the image is assembled. Redundancy that can be used to compress is pixel redundancy and reflection. The simulation penalty is for a strong contract in discrete wavelet transform (DWT) with a Scroll of corruption. This effect is also notorious and the degree of corruption will explode seen a close picture, but the level of agreement can also be high. An experimental shows the problem the Wavelet transform has been successfully used in the field of embedded, embedded and pure computing for the applied domain. Most of the research done on Wavelet transform has supported the static image and the computed summation. Modern multiplication has become a built-in alphabetic system of numerical abbreviations. Software performance decisions of clean software programs are repetitive, but, turned out to be as important as the usual global reduction in overall performance. real time series. overall performance improvement provided against the limitations of software program implementation. An example is given for building a software of Discrete Wavelet transform. The address is designed as an extension of the custom platform and can be used to speed up media such as JPEG2000.

Published in: 2023 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI)

Date of Conference: 25-26 May 2023
DOI: 10.1109/ACCAI58221.2023.10199788
Date Added to IEEE Xplore: 04 August 2023
Publisher: IEEE

Mr.R.Sarath Kumar, Assistant Professor, **ECE** presented and published his conference paper titled **"Implementation of Discrete Wavelet Transform for Image Compression"** at the 2023 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI). It is a Scopus Indexed IEEE Conference.

R&D | JOURNAL PUBLICATION |IT

FISH THE PHISH

Section A-Research paper

ECB

FISH THE PHISH

Ms.P.Alaguvathana[1*], Dr.R.Venkatesh[2],Dr.R.Kesavamoorthy[3],Ms.R.Janani,[4], Ms.P.Ilampiray[5]
[1]Assistant Professor, Department of Information Technology ,Sri Krishna College of Technology,Coimbatore
[2]Associate Professor,Department of CSE,Ramco Institute of Technology,Rajapalayam
[3] Associate Professor,Department of CSE,CMR Institute of Technology,Bengaluru
[4]Assistant Professor, Department of Information Technology ,Sri Krishna College of Engineering&Technology,Coimbatore
[5] Assistant Professor, Department of CSE ,R.M.K Engineering College,Chennai

*Corresponding Author :alaguvathanap@gmail.com

Abstract—**Phishing is a type of identity theft when a counterfeit website poses as a legitimate one in order to get sensitive information, such as credit card numbers or account numbers.Even though there are many anti-phishing technologies and techniques for seeing potential phishing attempts in emails and spotting phishing content on websites, phishers constantly create new and hybrid strategies to get around the existing software and tactics.Social engineering is one of the biggest threats that today's organizations and individuals face. A popular computer-based social engineering technique is phishing.Attackers use spoofed email addresses as a tool to go after large organizations. Due of the high amount of daily phishing emails received, businesses cannot identify all of them.To prevent phishing, new strategies and safeguards are necessary. Using cutting-edge Python machine learning technologies, the project will guide you through the steps required to develop three distinct machine learning-based projects to detect phishing attempts.Phishing is a deception technique that use a combination of social engineering and technology to get private information, including passwords and credit card numbers, by pretending to be a reputable individual or business in an internet discussion.Phishing employs phoney emails that seem legitimate and are purportedly from reliable sources, such banking organisations, e-commerce sites, and so forth., to persuade people to click on links in the phishing email that would take them to fake websites. The phony websites are designed to closely resemble the genuine business website.**

I. Introduction

Phishing is among the tempting strategies used by phishing artists to get personal information from unsuspecting consumers. A phishing website is a false website that seems identical but leads to a different place. Users provide their information on these websites under the mistaken impression that they are from trustworthy financial institutions. Many anti-phishing strategies arise on a regular basis; however, phishers develop new tactics by circumventing all anti-phishing measures. As a result, an efficient system for predicting phishing websites is required. The system models the prediction challenge using machine learning techniques and supervised learning algorithms. The proposed system classifier predicts the phishing website more accurately than existing learning algorithms.It seems astonishing how many phishing websites there are. Despite the fact that many online users are aware of these phishing attacks, many still fall for them.Such attacks are carried out with the intention of persuading web users that they are dealing with a reliable source. It includes phishing.To deceive the uninformed public, messages from reputable websites, auction sites, and online payment processors are routinely used.

False copies of legitimate websites are called phishing sites. Only experts have the fast eyesight to see these phishing websites.Nevertheless, not all online users are computer experts, so when they divulge their personal information to the phishing artist, they become victims.As it is easy to copy a whole website using HTML source code, phishing always evolves. By making little changes to the source code, it is possible to direct the victim to the phishing website. Phishers utilise a range of techniques to seduce unwary internet users. Consumers get boilerplate letters telling them to swiftly check their accounts. Moreover, they threaten people with notifications warning them to update their accounts right away or face having their accounts terminated. An efficient method is required to differentiate between phishing websites and legitimate websites in order to save credential data.

II. Literature Survey

2.1.Architecture based reliability prediction for serviceoriented computing

In service-oriented computing, services are built by combining already-existing, independently designed services. Because of this, predicting their dependability is essential for leading the selection and assembly of services appropriately and achieving the necessary level of dependability.We outline a technique for estimating the reliability of such services that incorporates concepts from component-based and software architectural techniques. In the Service Oriented Computing (SOC) concept, an application is created as a composite of parts and services (containing both fundamental services, like computation, storage, and communication, and "advanced" services that integrate some complicated business logic). The provision of support for automatically locating and choosing the

971

Eur. Chem. Bull. 2023, 12(10), 971-975

Ms.Janani R, Assistant Professor, IT has published a paper titled **" Fish the Phish"** in the International Journal of European Chemical Bulletin. It is Scopus indexed publication.

R&D | DESIGN PATENT GRANT |EEE

Mr.R.Kavin, Assistant Professor, **EEE** Department published a patent titled as **"Solar Tree for Energy Generation"** with the design number of 6301832 has received the **Design Patent Grant** with a Certificate of Registration of Design by the Patent Office, Government of UK.

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6301832

Grant date: 14 August 2023

Registration date: 04 August 2023

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Yannawar Vyankatesh Balajirao, Dr. Kelkar Gautam Dashrath, Dr. Narwade Keshav Bapurao, Kavin Rajagopal, Ram Ishwar Vais, Narender Chinthamu

in respect of the application of such design to:

Solar Tree For Energy Generation

International Design Classification:
Version: 14-2023
Class: 13 EQUIPMENT FOR PRODUCTION, DISTRIBUTION OR TRANSFORMATION OF ELECTRICITY
Subclass: 04 SOLAR EQUIPMENT

Adam Williams

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Intellectual Property Office is an operating name of the Patent Office www.gov.uk/ipo

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PLACEMENT AND TRAINING

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PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

SKCET has always believed in helping and guiding its students. I can proudly say that I have done my undergraduate in true terms and not just studied engineering theoretically. It gave me an opportunity to learn a number of things. There are lots of practical ideas that someone can take away and immediately apply in the classroom. This true passion for Engineering by our college is inspiring more and more of our students to get to and beyond their engineering potential. I am very grateful to the SKCET management, Placement Team and faculty members. My wholehearted advice to upcoming final year students is to start preparing aptitude on a daily basis and enhance your confidence level by practicing.

AMBARISH AS
IT (2021 Batch),
FLEX

PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

My four years engineering journey at SKCET is indeed a building of dynamic personality. It has given lots of opportunities to explore in different fields. All the faculty members were very supportive of everything we wanted to pursue during our time in the college. I was highly motivated to participate in various competitions. SKCET aims at the overall development of an individual and also provides multiple opportunities and exposure to develop new skills. Students are able to showcase their talent not just though technical but also through extra-curricular activities. The competitive environment always pushed me to perform my best. I extend my gratitude to our Placement cell. I am very much grateful to my parents

NAGA VIKNESH M, CSE (2021 BATCH), COVIAM

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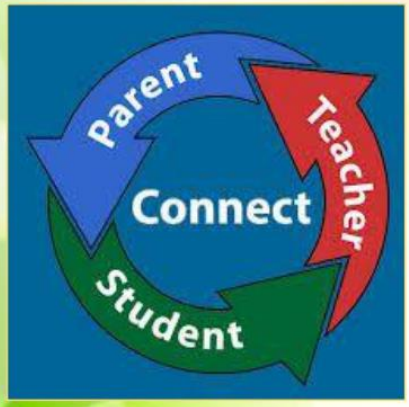
TUTOR WARD MEETING



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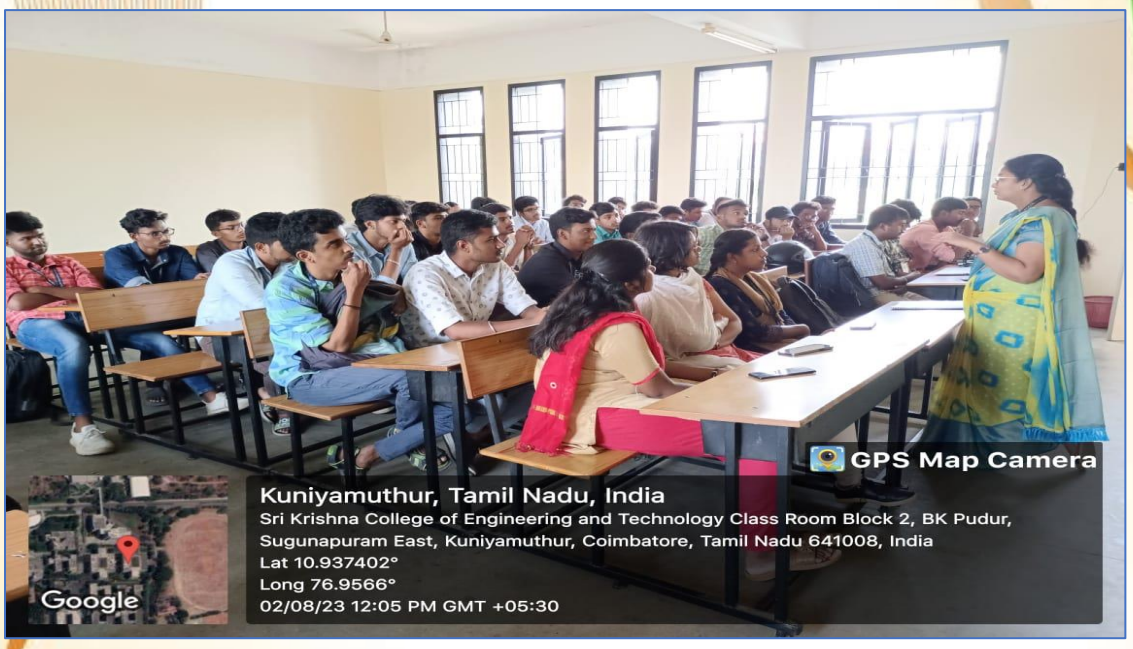
EEE | TUTOR WARD MEETING



Ms.N.Subhashini, Assistant Professor, **EEE** has conducted **Tutor Ward Meeting** for the **Final** year **EEE A** section students. The Pointers of discussion were: Effectiveness of classes, Accenture Placement drive preparation and involvement in Classes, Importance of attendance, CIA 1 result discussion, Event participation.

CSBS | TUTOR WARD MEETING

Department of **Computer Science and Business systems** has conducted **Tutor ward Meeting** for the **Third** year students of **CSBS** The following points were discussed:

- Placement Training classes
- Mini Projects
- Attendance
- Hackathon Participation
- General Discipline in the campus

AI&DS | TUTOR WARD MEETING

Ms.B.Kiruba, Assistant Professor, Department of **Artificial Intelligence and Data Science** conducted Tutor Ward Meeting for the **Final** year students on 17.08.2023. Pointers of discussion were: Placement preparation. Accenture Mock Test, academic performance.

AI&DS | CLASS COMMITTEE MEETING

Department of **AI&DS** organized first class committee meeting for III Year **students** has conducted on **16.08.2023** from 02.00 P.M to 02.30 P.M. Meeting will be facilitated by **Dr.S.Venkata Lakshmi**, Professor and Head, Department of **AI&DS** and **Dr.K.Ramesh**, Professor, Department of **CSE**.

Discussion:

1. Academic
2. Cocurricular and Extra-curricular Activities
3. Placement and Examination
4. Hackathon participation & Coding contest

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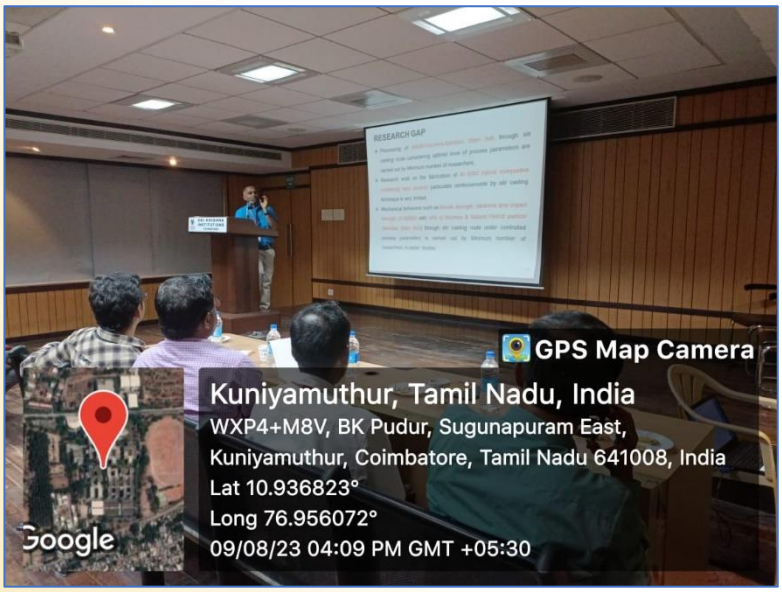
FACULTY PROGRESSION

MECH | PHD VIVA - VOCE



Mr. T. Nithyanandhan, Research Scholar of **Dr. R. Ramamoorthi**, Professor – **Mechanical Engineering** has completed his viva voce examination for his Doctoral degree on 09.08.2023. The examiners appreciated the scholar and supervisor for their extensive research work. The area of interest of the scholar was Aluminum Metal Matrix Composites.

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FACULTY CERTIFICATIONS

MOOC

MCT | STTP CERTIFICATION

G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Empowered Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)
(Accredited "A++" by NAAC in Third Cycle, NIRF Rank in the Band of 151-200 in Engineering category and 51-100 in Innovation category)
CRPF Gate No. 3, Hingna Road, Digdoh Hills, Nagpur-440016 (India)

Certificate

This is certified that Mr./Mrs. M Bhuvaneswari
of Sri Krishna College of engineering and technology, coimbatore, Tamilnadu
Participated & successfully completed Online One Week Short Term Training Programme on "Sustainable Energy Technology for Hydrogen, Solar, Wind and Biomass Energy" from 04-08 July 2023 at G H Raisoni College of Engineering, Nagpur organized by Center of Excellence in Energy, Department of Mechanical Engineering in association with Sustainability Solution, Pune and AICTE IDEA Lab.

Dr. V. W. Khond, Convener & I/C, COE-Energy, GHRCE, Nagpur
Dr. R. S. Shelke, Convener & HOD (Mech. Engg) GHRCE, Nagpur
Dr. S. B. Jaju, Dean (R&D) & Dy. Director GHRCE, Nagpur
Dr. Sachin Untawale, Director GHRCE, Nagpur

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CRPF Gate No. 3, Hingna Road, Digdoh Hills, Nagpur-440016 (India)

Certificate

This is certified that Mr./Mrs. S. Madhankumar
of Sri Krishna College of engineering and technology, coimbatore, Tamilnadu
Participated & successfully completed Online One Week Short Term Training Programme on "Sustainable Energy Technology for Hydrogen, Solar, Wind and Biomass Energy" from 04-08 July 2023 at G H Raisoni College of Engineering, Nagpur organized by Center of Excellence in Energy, Department of Mechanical Engineering in association with Sustainability Solution, Pune and AICTE IDEA Lab.

Dr. V. W. Khond, Convener & I/C, COE-Energy, GHRCE, Nagpur
Dr. R. S. Shelke, Convener & HOD (Mech. Engg) GHRCE, Nagpur
Dr. S. B. Jaju, Dean (R&D) & Dy. Director GHRCE, Nagpur
Dr. Sachin Untawale, Director GHRCE, Nagpur

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CRPF Gate No. 3, Hingna Road, Digdoh Hills, Nagpur-440016 (India)

Certificate

This is certified that Mr./Mrs. Dr. J. Justin Maria Hillary
of Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu
Participated & successfully completed Online One Week Short Term Training Programme on "Sustainable Energy Technology for Hydrogen, Solar, Wind and Biomass Energy" from 04-08 July 2023 at G H Raisoni College of Engineering, Nagpur organized by Center of Excellence in Energy, Department of Mechanical Engineering in association with Sustainability Solution, Pune and AICTE IDEA Lab.

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Dr. R. S. Shelke, Convener & HOD (Mech. Engg) GHRCE, Nagpur
Dr. S. B. Jaju, Dean (R&D) & Dy. Director GHRCE, Nagpur
Dr. Sachin Untawale, Director GHRCE, Nagpur

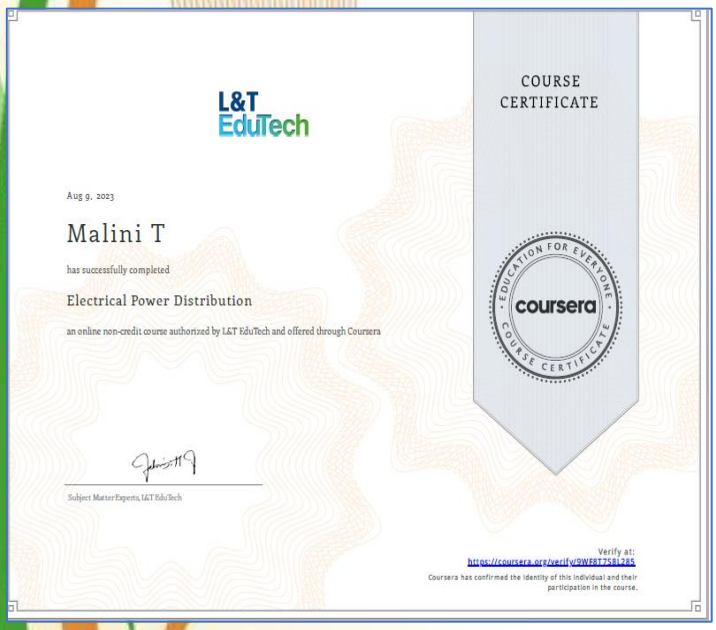
Dr.M.Bhuvaneswari, **Mr. S. Madhan Kumar and Dr.J.Justin Maria Hillary**, Assistant Professors of **MCT,** have participated in the One Week Online Short Term Training Program on **"Sustainable Energy Technology for Hydrogen, Solar, Wind and Biomass Energy"** from 4th July 2023 – 8th July 2023 at G H Raisoni College of Engineering, Nagpur organized by Center of Excellence in Energy, Department of Mechanical Engineering in association with Sustainability Solution, Pune and AICTE IDEA Lab.

MECH | FDP ON CO PO MAPPING AND CO PO ATTAINMENT

Following faculty members from the department of **Mechanical Engineering** have actively participated in five days Faculty Development Program on '**CO PO Mapping and CO PO Attainment'** organized by Greater Kolkata College of Engineering and Management from 10.07.2023 to 14.07.2023.

1. Mr. Siva Subramanian/ Assistant Professor	5. Dr. R. Ramamoorthi/ Professor
2. Mr. J. Baskaran/ Assistant Professor	6. Mr. Arun Kumar/ Assistant Professor
3. Dr. K. Balasubramanian/ Professor	7. Dr. M. Vigneshkumar/ Assistant Professor
4. Dr. K. P. Yuvaraj/ Assistant Professor	8. Dr. R. Jeyakumar/ Professor

EEE | COURSERA CERTIFICATION



Ms.T.Malini, Assistant Professor, **EEE** Department has successfully completed the course on **"Electric Power Distribution"** certified by Coursera.

M.Tech CSE | FACULTY FDP CERTIFICATION

Dr.A.Pushpalatha, Associate Professor**,** Department of **M.Tech CSE** has participated in the **Advanced Technology Program** on **Cloud Computing** Conducted by **Talent next** from 07.08.2023 to 11.08.2023.

AI&DS | LINKEDIN CERTIFICATION

Mr.S.Senthil Kumar, Assistant Professor of **AI&DS** has successfully completed the course on **"Digital Networking Strategies – Professional Networking"** Certified by Linkedin Learning on August 8, 2023.

IT | NITTTR CERTIFICATION

Dr.J.Granty Regina Elwin, Associate Professor, **IT** has participated in the AICTE recognized FDP on "**Data Science Using R**" by Computer Science and engineering Department from 17/07/2023 to 21/07/2023 at NITTTR, Chandigarh.

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CSE | ALUMNI INTERACTION

Manjunathan V, alumnus of CSE Department (2019-2023 Batch), ML Software Engineer, Mr.Cooper, Chennai interacted with current students to gain practical insights from real-world experiences, aiding in informed career decisions and skill development. Networking opportunities during alumni interactions can lead to valuable industry connections, internships, and job placements for students. The exchange of knowledge and guidance through alumni interaction nurtured a sense of belonging, motivation, and a deeper understanding of professional pathways among students.

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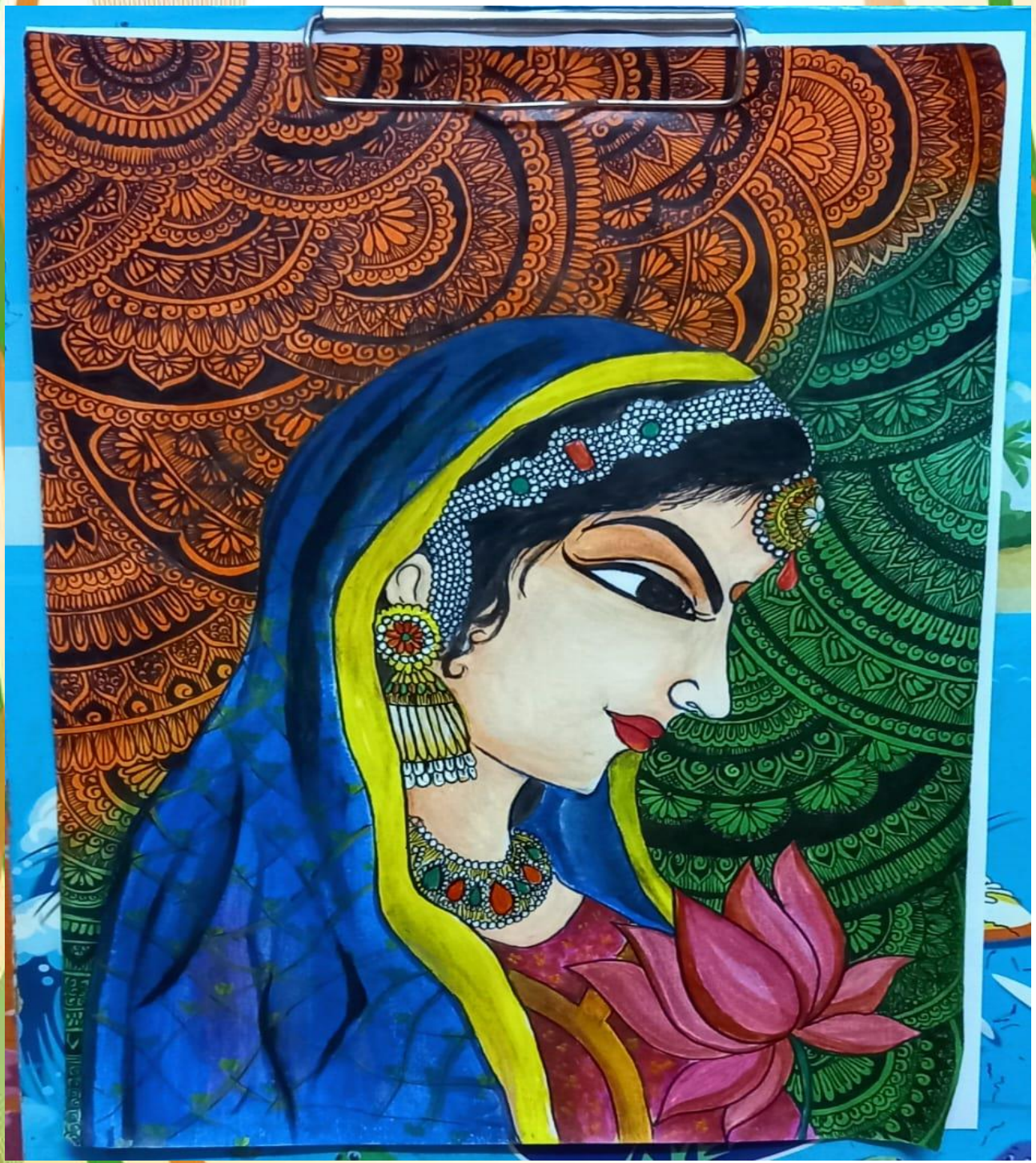
CREATIVE CORNER

MCT | CREATIVE CORNER

INEETHA P
III MCT

EEE | MANDALA ART



R.K Visrutha
III-EEE-B

CSE | NATURE CLICK

B. Radhakrishnan
III CSE - B

CSE | NATURE CLICK

B. Radhakrishnan
III CSE - B

CSE | NATURE CLICK

B. Radhakrishnan
III CSE - B

CSE | NATURE CLICK

B. Radhakrishnan
III CSE - B

EEE | NATURE CLICK

Dr. S. Sivaranjani
Professor, EEE