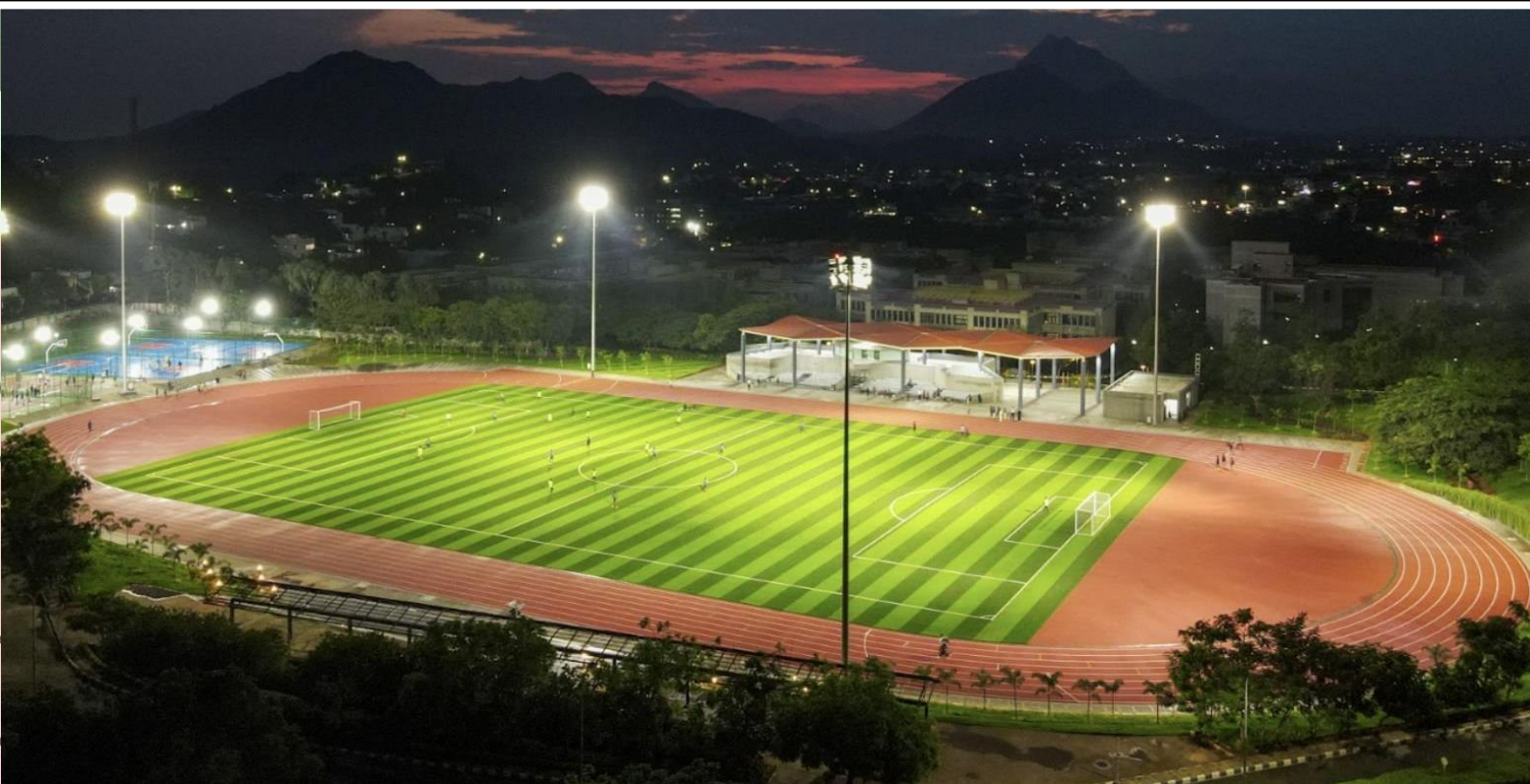


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10th February - 16th February 2024



Editor-in-Chief

Dr.J.Janet
Principal

Co-Editor

Dr.S.Venkata Lakshmi - AI & DS

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Mr.J.Dhiyaneswaran - MECH,
Mr.M.Diwakaran - IT,
Mr.G.S.Pugalendhi - AI & DS,
Mrs.S.Mary Fabiola - S&H

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SKCET | UIPATH INDIA ACADEMIC ALLIANCE AWARDS | CITIZEN DEVELOPMENT EFFORTS



We are happy to share that **SKCET** is a proud recipient of the 2024 UiPath India Academic Alliance Awards - Citizen Development Effort's category which is a testament of dedication to building a skilled, next-generation workforce on 15.02.2024 at Shangri-La, Bengaluru.

This award recognizes the hard work and commitment towards building a competent and skilled workforce for the future.

Principal Madam Dr.J.Janet received the Citizen Development Efforts- Partner Award from Mr.Munil Shah, CTO, Automation Cloud, UiPath, Mr.Arun Balasubramanian

Vice President & Managing Director - India & South Asia, UiPath, Mr.Colin Png, Vice President Marketing, Asia Pacific and Japan, UiPath, Mr.Rajesh Nambiar, Director, Academic Alliance, APJ, UiPath for our Prestigious institution.

SKCET | AMAZON - AWS INDIA TECH ALLIANCE - UNIVERSITY ACADEMIA LAUNCH PROGRAM AT BANGALORE



SKCET: Amazon-AWS India Tech Alliance - University academia launch program at Bangalore

We are happy to share that Amazon-AWS (Amazon Web Service) has invited our **Principal** madam **Dr.J.Janet** for launching University academia program in Cloud services at Bangalore on 15.02.2024. Our Principal mam had a productive interaction with AWS leadership team on Feb 14th about potential collaboration in latest niche technologies. “Amazon-AWS India Tech Alliance” is a one-of-a-kind initiative by tech behemoth Amazon for select colleges in India for collaboration in latest niche technologies in cloud and devops. SKCET was selected by Amazon- AWS as a high-performance institute in Cloud services. The India Tech Alliance will focus on programs that prepare learners for the following roles - Cloud Engineer, Cloud administration and DevOps Engineer.

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SKCET | WELLNESS AWARENESS CAMP



Department of **Science and Humanities** hosted a **Wellness Awareness Camp** featuring **Bone Marrow Density Checkup, Body Composition Analysis, Skin and Hair Care sessions** for both teaching and non-teaching faculty members with an aim to raise awareness about overall health status and provide preventive and curative treatments for personal health issues. Mrs. Gayathri Karthik, Mrs. Swathi, and Mrs. Helen, Nutrition Consultants, shared valuable health tips for maintaining vitality and strength, making it a day dedicated to self-care.

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STUDENTS CERTIFICATION



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EEE | CERTIFICATE OF INTERNSHIP

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Coimbatore – 108,
Phone:- Cell: 9842230088, 9443150458

Ref : 240/HS/24 Date : 09.02.2024

TO WHOM IT MAY CONCERN

This is to certify that Mr. DHANUSH S (727722EUEE502), a Student of 3rd year, B.E Electrical and Electronic Engineering, from SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, Kuniyamuthur has successfully completed Internship Programme from 30th January, 2024 to 09th February, 2024 (2 Weeks) at this HEATRAN SERVICES, Coimbatore. During the Period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.

For,HEATRAN SERVICES

For HEATRAN SERVICES
Jm
Proprietor

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(GSTIN NO. : 33ACRPJ6391C2ZH)

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Coimbatore – 108,
Phone:- Cell: 9842230088, 9443150458

Ref : 241/HS/24 Date : 09.02.2024

TO WHOM IT MAY CONCERN

This is to certify that Mr. GOKUL K (727722EUEE504), a Student of 3rd year, B.E Electrical and Electronic Engineering, from SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, Kuniyamuthur has successfully completed Internship Programme from 30th January, 2024 to 09th February, 2024 (2 Weeks) at this HEATRAN SERVICES, Coimbatore. During the Period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.

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Coimbatore – 108,
Phone:- Cell: 9842230088, 9443150458

Ref : 242/HS/24 Date : 09.02.2024

TO WHOM IT MAY CONCERN

This is to certify that Mr. JAYANTH R (727722EUEE508), a Student of 3rd year, B.E Electrical and Electronic Engineering, from SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, Kuniyamuthur has successfully completed Internship Programme from 30th January, 2024 to 09th February, 2024 (2 Weeks) at this HEATRAN SERVICES, Coimbatore. During the Period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.

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Coimbatore – 108,
Phone:- Cell: 9842230088, 9443150458

Ref : 243/HS/24 Date : 09.02.2024

TO WHOM IT MAY CONCERN

This is to certify that Mr. MATHAN S (727721EUEE047), a Student of 3rd year, B.E Electrical and Electronic Engineering, from SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, Kuniyamuthur has successfully completed Internship Programme from 30th January, 2024 to 09th February, 2024 (2 Weeks) at this HEATRAN SERVICES, Coimbatore. During the Period of his internship programme with us he was found punctual, hardworking and inquisitive.

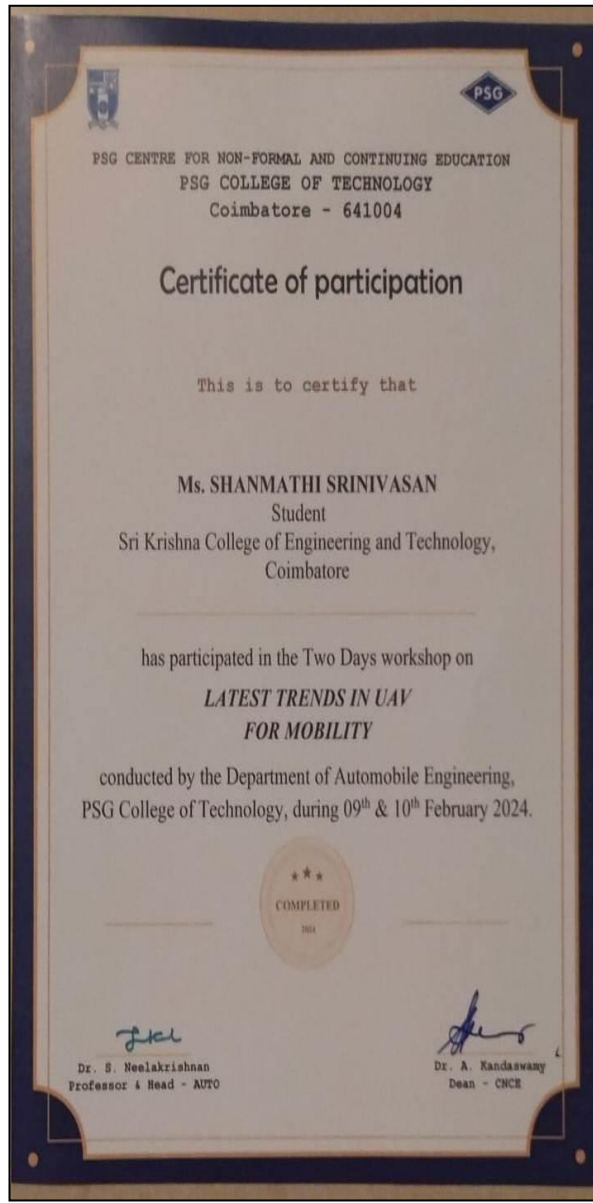
We wish him every success in life.

For,HEATRAN SERVICES

For HEATRAN SERVICES
Jm
Proprietor

Dhanush.S, Jayanth.R, Gokul.K, MathanMuthuKumar.S, students of Third year EEE A section have successfully completed their internship with Heatran Services Coimbatore from 30-01-2024 to 09-02-2024.

AI&DS | WORKSHOP ON LATEST TRENDS IN UAV FOR MOBILITY



S.M.Ashika and **Shanmathi Srinivasan**, students of second year **Artificial Intelligence and Data Science** have participated in the Two days' Workshop on "**Latest Trends in UAV for Mobility**" organized by PSG College of Technology on 9th and 10th February 2024.

EEE | CERTIFICATE OF INTERNSHIP

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Ref: MSPL/HRA - 08/2024
Feb 09, 2024


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.J.LEO JOSEPH**(R.No: 727722EUEE511) student of III year BE. Electrical & Electronics Engineering from Sri Krishna college of Engineering & Technology, Coimbatore has successfully completed the Internship Training in our Organization from 30th Jan 2024 to 09th Feb 2024.

During this training period, his conduct was good.

For MAG Solvics Private Limited,


HR & Administration



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Ref: MSPL/HRA - 06/2024
Feb 09, 2024


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.C.DHANAGOPAL** (R.No: 727722EUEE501) student of III year BE. Electrical & Electronics Engineering from Sri Krishna college of Engineering & Technology, Coimbatore has successfully completed the Internship Training in our Organization from 30th Jan 2024 to 09th Feb 2024.

During this training period, his conduct was good.

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Feb 09, 2024


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.C.K.SENTHIL KUMAR** (R.No: 727722EUEE519) student of III year BE. Electrical & Electronics Engineering from Sri Krishna college of Engineering & Technology, Coimbatore has successfully completed the Internship Training in our Organization from 30th Jan 2024 to 09th Feb 2024.

During this training period, his conduct was good.

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Feb 09, 2024


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.R.HARIKRISHNA** (R.No: 727722EUEE505) student of III year BE. Electrical & Electronics Engineering from Sri Krishna college of Engineering & Technology, Coimbatore has successfully completed the Internship Training in our Organization from 30th Jan 2024 to 09th Feb 2024.

During this training period, his conduct was good.

For MAG Solvics Private Limited,


HR & Administration



Leojoseph.J, Dhanagopal.C, Senthilkumar.C K, Harikrishna.R, students of Third year have successfully completed their internship with MAG Solvics Private Limited, Coimbatore from 30-01-2024 to 09-02-2024.

AI&DS | INTERNSHIP @ TWIRLTACT



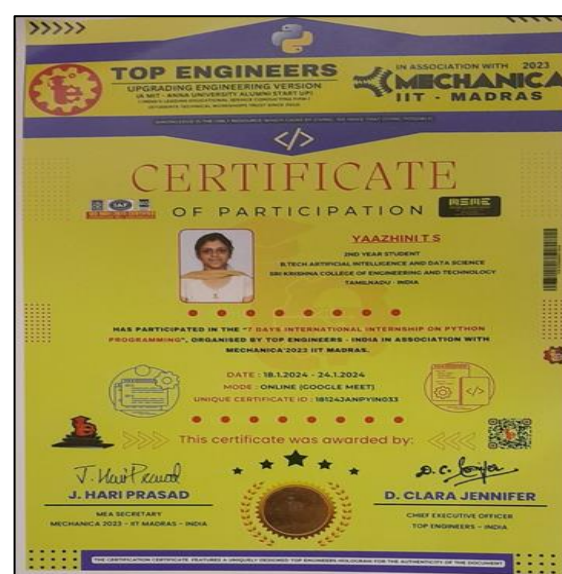
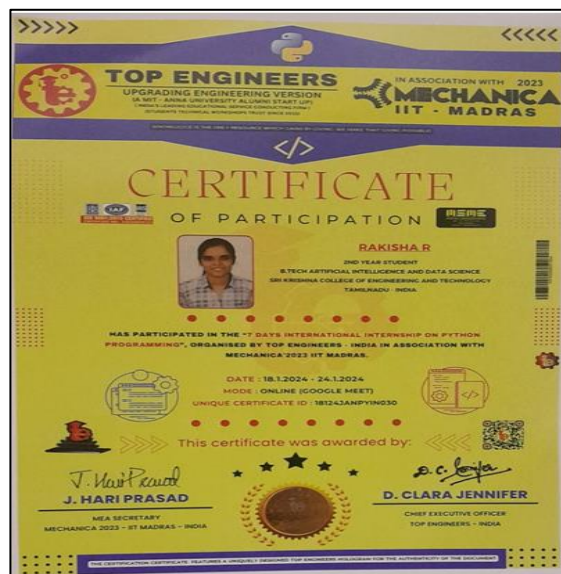
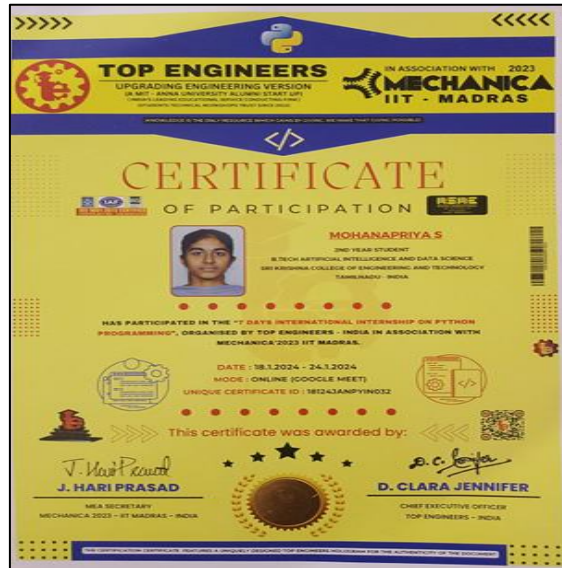
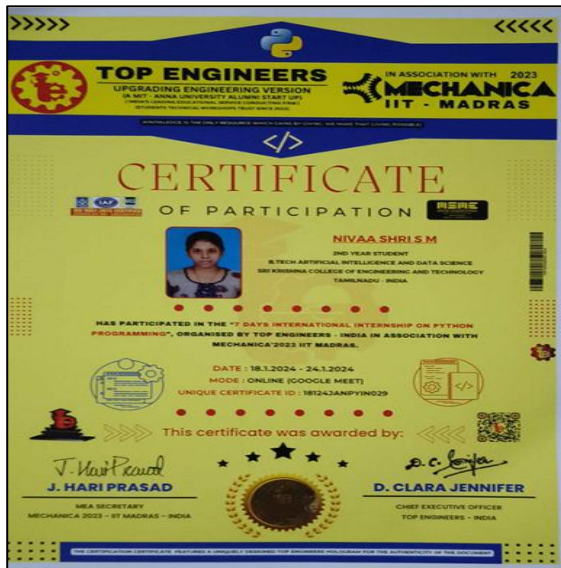
Vishnu K, Sharwan Krishnan P, Pranav Krishna S and Vijay Ananth M students of third year **Artificial Intelligence and Data Science** have completed Internship Program on “**Internet of Things**” from 20/12/2023 to 29/12/2023 at TwirlTact Technology Solution Private Limited, Coimbatore.

AI&DS | INTERNSHIP @ TWIRLTACT



Brinda PV, Logesh S and Amrith Menon S, students of second year **Artificial Intelligence and Data Science** have completed Internship Program on “**Internet of Things**” from 20/12/2023 to 29/12/2023 at TwirlTact Technology Solution Private Limited, Coimbatore.

AI&DS | INTERNSHIP ON PYTHON PROGRAMMING



Nivaa Shri S.M, Mohana Priya S, Rakisha R and Yaazhini TS, students of second year Artificial Intelligence and Data Science have completed the 7 days International Internship on "Python Programming" organised by Top Engineers India in association with mechanica'2023 IIT Madras from 18.1.2024 - 24.1.2024.

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MCT | PROGRAMME ADVISORY COMMITTEE MEETING



Department of **Mechatronics Engineering** conducted **Programme Advisory Committee Meeting** on 09.02.2024. **Dr.Vinod.B**, Professor & Head, Department of Robotics and Automation Engineering, PSG College of Technology, Coimbatore was the Academic Expert member, **Mr. Bharat Balaji**, Founder and Proprietor, DJ Power Solutions, Coimbatore was the Industrial Expert member, **Mr. R. S. Vignesh Ram Kumar**, Director, V.R. K Power Controls, Coimbatore was the Alumni member. The experts shared their valuable suggestions for the development of the department.

CIVIL | WORKSHOP ON ADVANCED COMPUTATION FOR ARCHITECTURE AND STRUCTURAL DESIGN



Department of **Civil Engineering** in association with **Pumo Technovation**, organised a Workshop on “**Advanced Computation for Architecture and Structural Design**” on 09.02.2024. **Er. A. Balamurali**, Technical Head, Pumo Technovation and **Ar. J. KaviDhanjan**, Mohan and Monz Architects.

Workshop Highlights:

- Scope of Building Information Model
- Hands on training Building modeling and design using STADD pro.
- Model Generation
- Static Analysis and Dynamic/Seismic Analysis
- Concrete design and steel design

CSE | WORKSHOP ON DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN – DAY 1



Department of **CSE** in association with **IIC** organized a Workshop on “**Design Thinking, Critical Thinking and Innovation Design**” from 12.2.2024 to 13.2.2024.

Resource Person: Mr.NaveenManickam, CEO & Founder,NM Academia & WSN India, Coimbatore.

Session Takeaways:

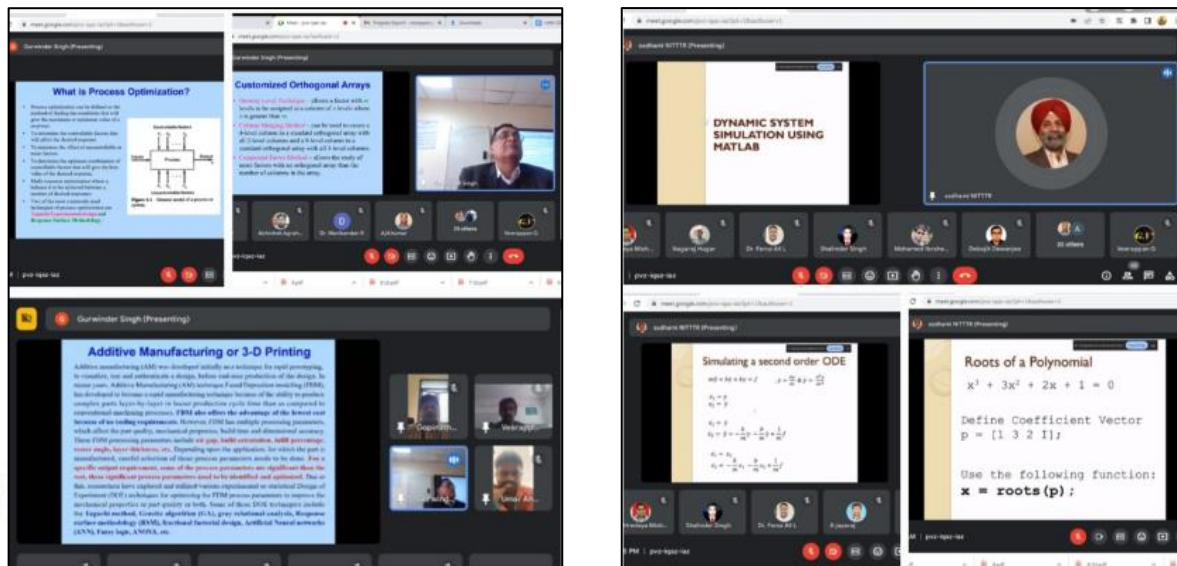
- Value of critical thinking and innovative design
- How to protect innovative ideas
- How to Register & Filing of Design Application
- The psychological principles of problem solving and creativity
- How to generate and identify creative ideas in different perspectives
- Identifying Customer Needs and product Specifications

AI&DS | HOD INTERACTION



Dr.S.Venkata Lakshmi, HoD, **AI&DS** interacted with the **Second year AI&DS** students on 14.02.2024. Students were asked to involve in various activities such as professional grooming, maintenance of discipline inside the campus, dress code, punctuality, hackathon participation, co-curricular and extra-curricular activity.

MCT | STP ON DIGITAL TWINNING OF MATERIAL PROCESSING TECHNOLOGIES – DAY 3



MCT as Remote center, NITTTR Chandigarh organizes a Short Term Course on “Digital Twinning of Material Processing Technologies” from 05.02.2024 to 09.02.2024. The STC drew enthusiastic participation from the faculty members.

Session 1:

Resource Person: Dr. Sanjeev Kumar, PEC Chandigarh.

Topic: Design of Experiments for Manufacturing

Session take-aways:

- Process Optimization
- Customized Orthogonal array.
- Taguchi method
- Validation of Modeling.

Session 2:

Resource Person: Dr. S.S. Dhami, NITTTR, Chandigarh

Topic: MATLAB for Material Processing – II

Session take-aways:

- Modeling of second order system.
- Dynamic system simulation using MATLAB, Aspect ratio.

ECE | DEMO SESSION ON ADVANCED IOT DEVELOPMENT KIT



Department of **ECE** organized a Demo session on **Advanced IoT Development Kit** on 08.02.2024. Mr K U Kshitij, Embedded Systems Engineer, Globatronics was the Resource person. The key features of Advanced IoT Development Kit, Interfacing of various sensors with IoT controller, accessing data from sensors through MQTT in IoT development kit, interfacing of dual controller in single development board, AI based face recognition system using IoT board were the pointers of discussion.

EEE | HOD INTERACTION



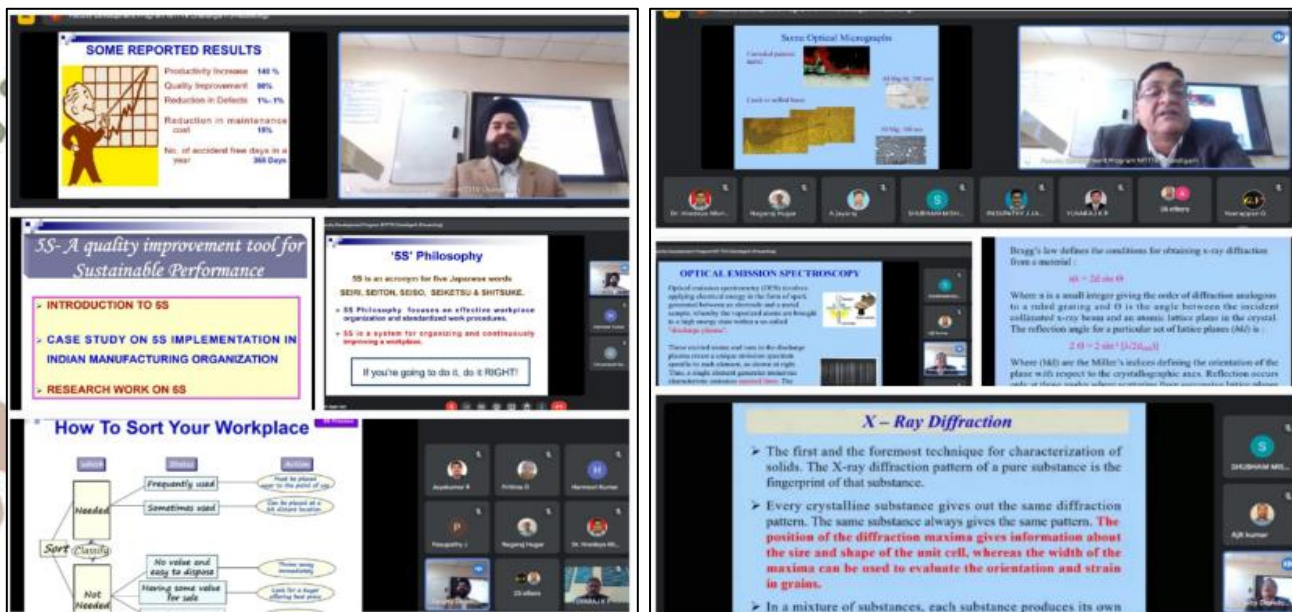
Dr.K.C.Ramya, Professor and Head of the Department of **EEE**, welcomed the Second-year students on February 12, 2024 for the 2023–2024 Even Semester and provided a concise overview of both academic and extracurricular events scheduled for the upcoming semester.

Pointers of Discussion:

- Review of III Semester End semester exam Performance
- IV Semester Subjects and their impact on Career accomplishment
- Industry Course Details
- Performance in Placement coding tests
- Association events

She also motivated the students to participate in various Co and Extracurricular events.

MCT | STP ON DIGITAL TWINNING OF MATERIAL PROCESSING TECHNOLOGIES – DAY 4



Session 1 & 2:

Resource Person: Dr. IPS Ahuja, Punjab University

Topic: TPM in Manufacturing

Session take-aways:

- Evaluation of Process parameters
- Challenge in implementing 5S
- Hurdles in Continuous improvement
- Achieving excellence through maintenance function

Session 3:

Resource Person: Dr. Sanjeev Kumar, PEC Chandigarh.

Topic: Material Characterization

Session take-aways:

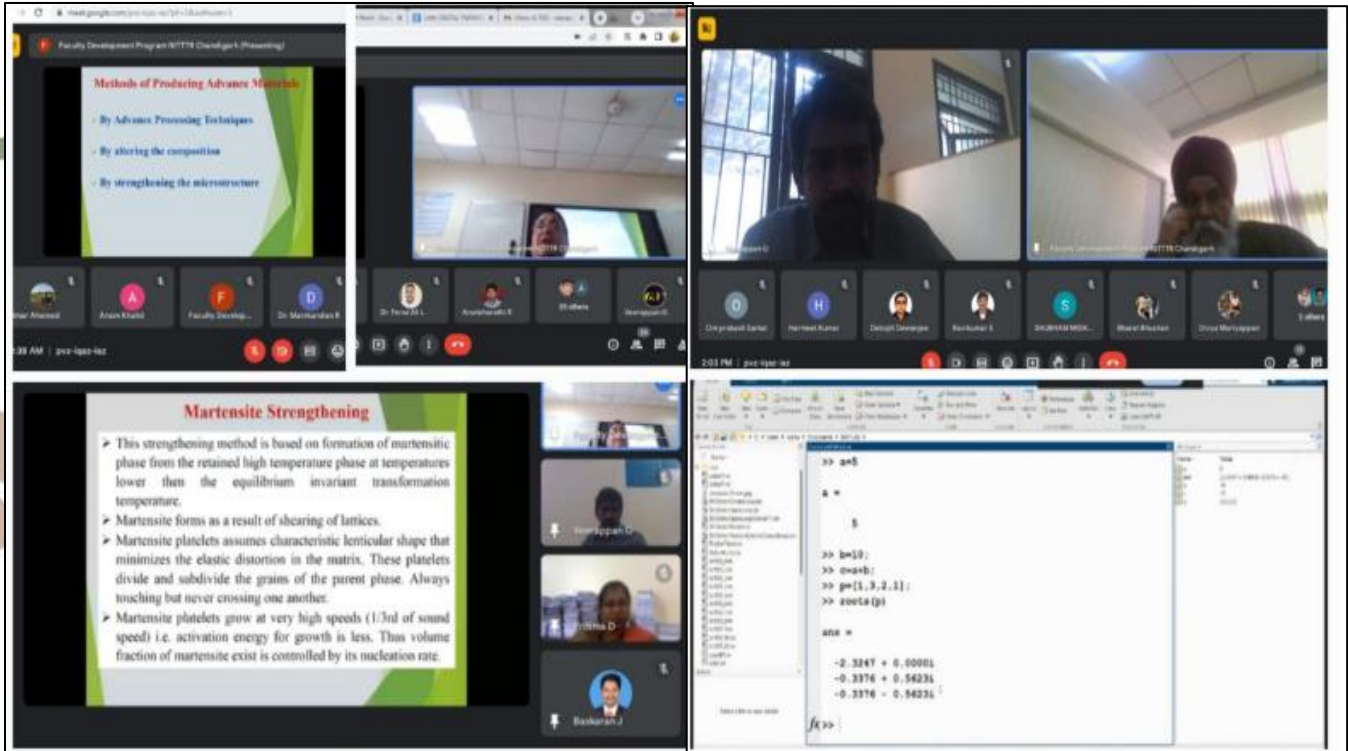
- Material characteristic techniques.
- Specimen preparation for Microstructure Analysis.
- Analysis of Powder Morphology.

ECE | GUEST LECTURE ON CYBER THREATS WITH MACHINE LEARNING AND DEEP LEARNING MODELS



Department of **Electronics and Communication Engineering** organized a Guest Lecture on "**Unraveling Cyber Threats with Machine Learning and Deep Learning Models**" to deepen the understanding of the students in this pivotal field. The resource person for the session was **Dr. Kannimuthu Subramanian**, Professor, Department of IT, Karpagam College of Engineering. The session highlights were: Understanding the Basics of Cyber Security, Architecture in Machine Learning and Deep Learning in Cyber Security, Innovations and Evolution of AI, ML and DL, Python Libraries and Performance Metrics of various models, Working and Types in the Cyber Threats with Machine Learning and Deep Learning Models.

MCT | STP ON DIGITAL TWINNING OF MATERIAL PROCESSING TECHNOLOGIES – DAY 5



Session 1:

Resource Person: Dr. Sanjeev Kumar, PEC Chandigarh.

Topic: Advanced Materials

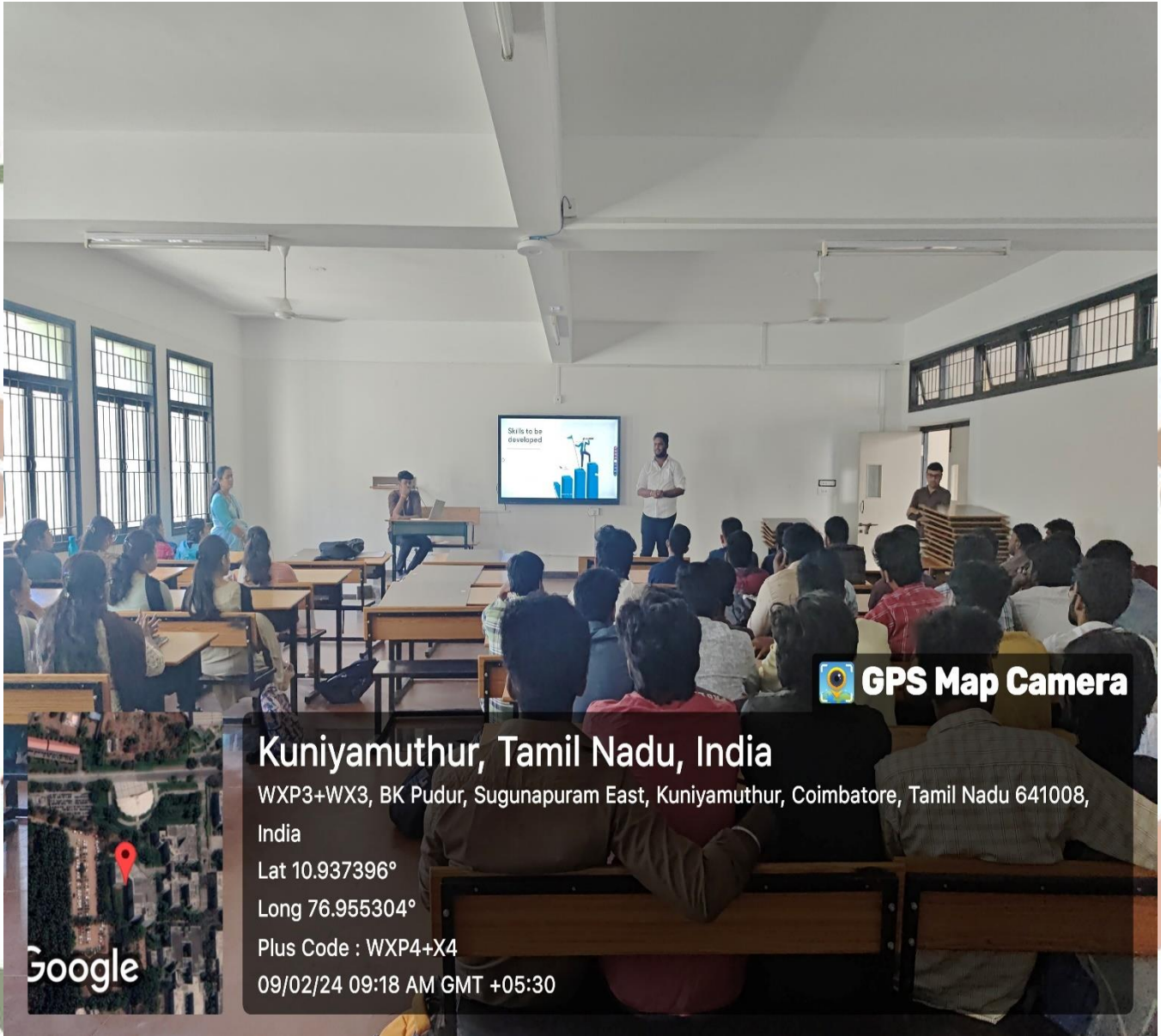
Session take-aways:

- Heat treatment process
- Super alloys
- Metal Lamination
- Strengthening mechanisms

Lab session and Valedictory:

- MATLAB demonstration
- Effective sessions with academic experts

ECE | PLACEMENT PREPARATION AWARENESS



Kuniyamuthur, Tamil Nadu, India

WXP3+WX3, BK Pudur, Sugunapuram East, Kuniyamuthur, Coimbatore, Tamil Nadu 641008, India

Lat 10.937396°

Long 76.955304°

Plus Code : WXP4+X4

09/02/24 09:18 AM GMT +05:30

Mr.Kavin Prasad, Final year student who has secured placement, addressed the present Third year students on the importance of preparation for placements and imparted insights from his own experiences during placement drives.

M.TECH CSE | GUEST LECTURE ON CRITICAL THINKING



Department of **M.Tech CSE** organized a Guest Lecture on "**Critical Thinking**" for the Third and Final year M. Tech. CSE students on 8.2.2024.

Resource Person:

- Mr. Ashokkumar Subramaniam, Director, Quin Bay Technologies, Coimbatore.
- Nayan Jajeda, CEO & Co-founder, U Mold IT Solutions Pvt. Ltd, Chennai.

Session Takeaways:

- Importance of Questioning
- Analytical Skills Development
- Problem-Solving Strategies
- Evidence-Based Decision Making

CSE | WORKSHOP ON DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN – DAY 2



Resource Person: Mr.Naveen Manickam, CEO & Founder, NM Academia & WSN India, Coimbatore.

Session Takeaways:

- Tips to Present a Perfect Innovative Pitch
- Generation of innovative new products, services, and technologies
- Ideas that generate Artistic Value
- Feasibility & Impact of the innovative Idea

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EEE | TESTIMONIAL BY PLACED STUDENT

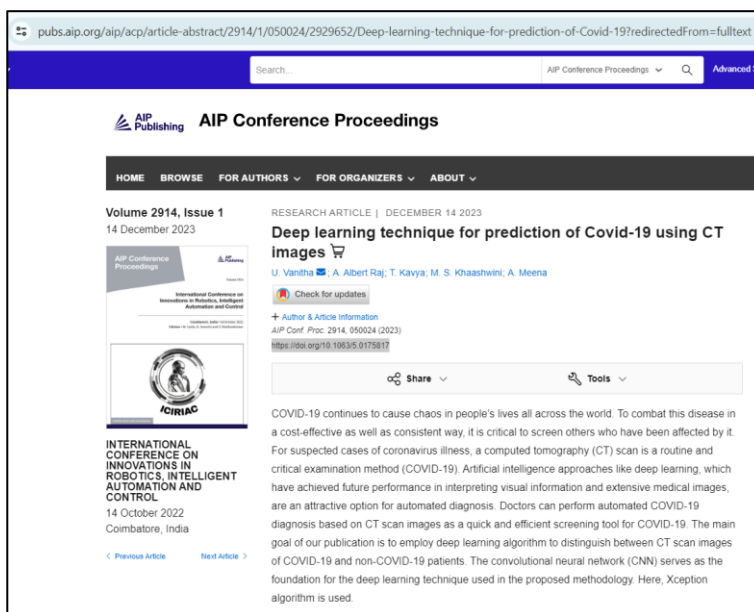
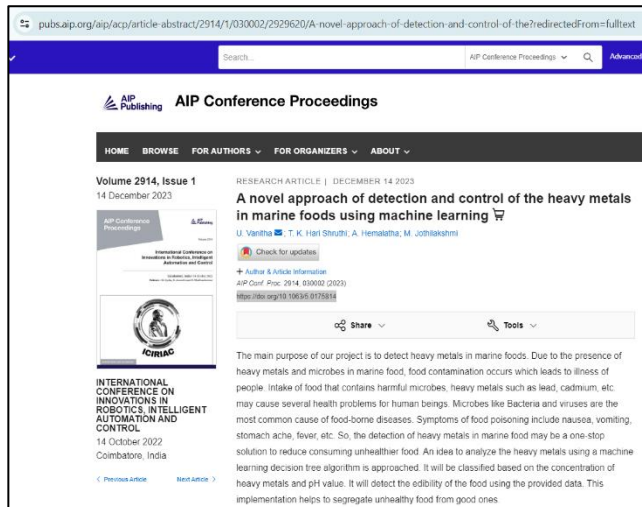
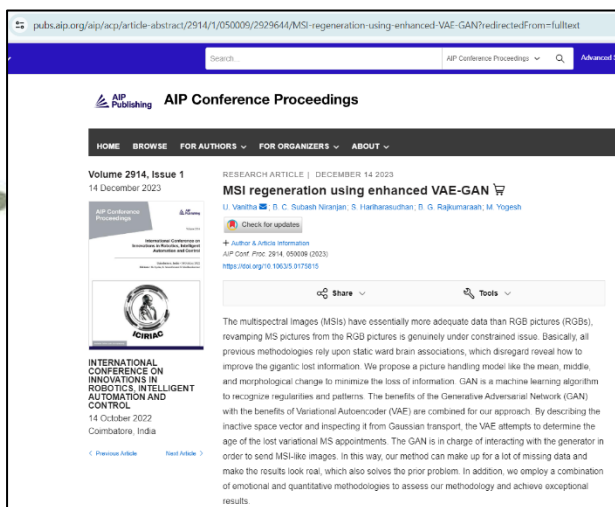
I would like to take a moment to express my heartfelt appreciation for the remarkable journey I have experienced at SKCET. It is an honor to acknowledge the unwavering dedication of the faculty, tutors, year coordinator, and Head of the Department, who have played an indispensable role in shaping my academic and professional trajectory. Their tireless support has been instrumental in helping me achieve a significant milestone – securing prestigious positions at Accenture and L&T Technology and Services.

I attribute these accomplishments to the enriching experiences and education I received during my academic tenure. As I embark on this exciting new chapter, I am filled with both enthusiasm and humility. The knowledge and skills I have acquired have equipped me to make meaningful contributions to the mission and vision of the respective companies. I extend my sincere gratitude to everyone

GUNASEELAN C
EEE (2024 Batch)
LTTS – 4 LPA
ACCENTURE - 6 LPA



R&D | PAPER PUBLICATION | ECE



Ms.U.Vanitha, Assistant Professor, Department of **ECE** has presented and published three conference papers titled **“MSI Regeneration using Enhanced VAE-GAN”**, **“A Novel Approach of Detection and Control of the Heavy Metals in Marine Foods Using Machine Learning”** and **“Deep Learning Technique for Prediction of Covid-19 Using CT Images”** in the International Conference on Innovations in Robotics, Intelligent Automation and Control. It is a Scopus Indexed Conference.

R&D | PATENT GRANT | ECE



Dr.C.ThirumaraiSelvi, Professor,
Department of **ECE** has received a
Grant for her Patent titled “**Virtual
Friend for Elderly / Differently
Abled**”. Patent Application No.:
201841023877.

R&D | PAPER PUBLICATION | EEE

Ms.C.Pavithra, Assistant
Professor, Department of **EEE** has
published a paper entitled
“**Comparison of Solar P&O and
FLC-based MPPT Controllers &
Analysis under Dynamic
Conditions**” in EAI Endorsed
Transactions on Energy Web. It is
indexed in Scopus with an impact
factor of 0.211.

EAI Endorsed Transactions on Energy Web

Research Article **EAI.EU**

Comparison of Solar P&O and FLC-based MPPT Controllers & Analysis under Dynamic Conditions

C. Pavithra^{1*}, Vidhyareni S², Vijayadharshini M³, Shree Akshaya K B⁴, Varsha N⁵

^{1,2,3,4,5}Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering of Technology Coimbatore, India

Abstract

Increase in electricity generation is caused due to population increase, which leads to the depletion of fossil fuels, and increased pollution. This leads to focusing on alternate renewable energy mainly solar photovoltaic generation, due to the abundant availability. The maximum power generated by a PV module depends on the temperature and irradiance because the P-V and V-I natures are non-linear. Various DC-DC boost converters are used along with the MPPT techniques because the conversion efficiency of the PV system is low [1][2]. In this paper, comparative analysis between Perturb and Observe (P&O) and Fuzzy Logic-based Maximum Power Point Tracking (MPPT) systems along with modified SEPIC are done using MATLAB/SIMULINK software. Simulations are done at different irradiances to observe its tracking speed towards MPP. From the obtained output (simulation), it is observed that the Fuzzy Logic Converter (FLC)-based MPPT controllers have good dynamic performance, reduced oscillation, high tracking speed, maximum power, etc. [3].

Keywords: Solar PV, MPPT, P&O, FLC, Simulink

Received on 12 November 2023, accepted on 21 January 2024, published on 31 January 2024

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doi: 10.4108/ew.4988

*Corresponding author. Email: pavithra@skcet.ac.in

1. Introduction

Energy consumption by humans is increased due to increased loads and most of the energy is generated from conventional resources like fossil fuels, which results in heavy environmental pollution. Alternative energy resources like wind, solar, biomass, hydropower generation, and geothermal are considered to meet the energy demands. Among all the alternate sources, PV power generation is popular due to the abundant availability of solar power.

Solar power generation reached 179 TWh in 2022 and made a 22% increase in power generation compared to the previous year. But it has a few limitations, low conversion efficiency and unstable output power due to weather conditions like changes in temperature and irradiance in a day and it also depends on the connected load. An MPPT is used to recognize the efficient utilization of solar cells

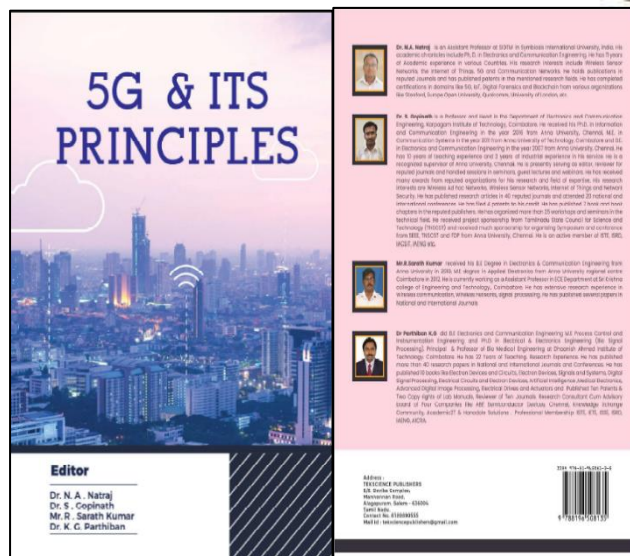
because P-V and V-I curves are nonlinear, which results in non-linear power production [4]. Many MPPT techniques have evolved from the conventional MPPT algorithms like hill climbing, Perturb& Observe, IC, etc., and other advanced soft computing-based algorithms like Artificial Neural Networks (ANN), Fuzzy Logic Controller (FLC), Particle Swarm Optimization (PSO), and hybrid algorithms are also available [5][6]. This paper focuses on the comparison of conventional P&O and soft computing based FLC algorithms based on the results.



EAI Endorsed Transactions on
Energy Web
| Volume 11 | 2024 |

R&D | BOOK PUBLICATION | ECE

Mr.R.Sarath Kumar, Assistant Professor, Department of ECE published a book titled **“5G and its Principles”**, Tek science Publishers. ISBN – 978-81-965081-3-5.



R&D | PAPER PUBLICATION | MCT

Reference Module in Chemistry, Molecular Sciences and Chemical Engineering
2024

Environmental Challenges and Economic Assessment of Methanol Production Process

S. Madhankumar^a, Karthickeyan Viswanathan^b

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<https://doi.org/10.1016/B978-0-443-15740-0.00041-0> [Get rights and content](#)

Abstract

The importance of addressing climatic changes as well as the unsustainable nature of fossil energy sources emphasizes the need for alternative energy sources, with methanol emerging as a viable option. Methanol, being one of the easiest compounds for storing energy, finds application in various product categories. This review delves into environmental challenges and economic assessment of methanol production process. In comparison to fossil energy sources, the burning of bio-methanol results in an impressive reduction in NO_x pollutants, CO₂ pollutants, and the complete elimination of SO_x emissions. The price and production of bio-methanol are predominantly affected by raw material qualities, initial expenditures, and factory locations. Integrating bio-methanol as a complementary fuel offers advantages with regard to combustibility, energy

Mr.S.Madhan Kumar, Assistant Professor of MCT has published a paper titled **“Environmental Challenges and Economic Assessment of Methanol Production Process”** in Reference Module in Chemistry, Molecular Sciences and Chemical Engineering. This is a Scopus indexed publication.

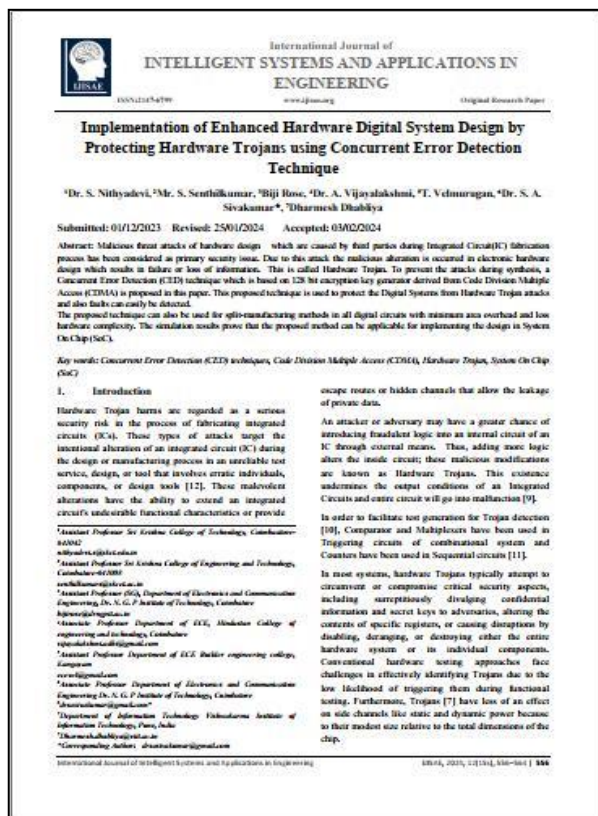
R&D | PATENT GRANT | CSBS



Dr.S.Balakrishnan, Professor and Head, Department of **Computer Science and Business Systems**, has published a patent titled **“IOT Based Fertilizer Spraying Drone”**, in the Patent Office, Government of India on 15.12.2023 with the Application No 402270-001.

R&D | JOURNAL PUBLICATION | AI & DS

Mr.S.Senthil Kumar, Assistant Professor, Department of **AI&DS**, has published SCI and Scopus indexed Journal titled **“Implementation of Enhanced Hardware Digital System Design by Protecting Hardware Trojans using Concurrent Error Detection Technique”** in the International Journal of Intelligent Systems and Applications in Engineering. Vol 12, Issue 15s, pp. 556–564.



R&D | PATENT PUBLICATION | CSBS

| | |
|---|--|
| (12) PATENT APPLICATION PUBLICATION | (21) Application No.202441001490 A |
| (19) INDIA | |
| (22) Date of filing of Application :08/01/2024 | (43) Publication Date : 09/02/2024 |
| (54) Title of the invention : REAL TIME NEURO DISORDER DETECTION USING DIGITAL HEART RATE MONITOR WITH WIFI USING IOT AND AI | |
| (51) International classification :A61B0005000000, A61P0009000000, G16H0010600000, G06Q0050220000, G06Q0010100000 | (71)Name of Applicant : 1)Lionel Roshan P Address of Applicant :UG Scholar, Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Coimbatore. |
| (86) International Application No :NA Filing Date :NA | 2)Dr. G. Ignisha Rajathi Name of Applicant : NA Address of Applicant : NA |
| (87) International Publication No :NA | (72)Name of Inventor : 1)Lionel Roshan P Address of Applicant :UG Scholar, Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Coimbatore. |
| (61) Patent of Addition to Application Number :NA Filing Date :NA | 2)Dr. G. Ignisha Rajathi Address of Applicant :Associate Professor, Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Coimbatore. |
| (62) Divisional to Application Number :NA Filing Date :NA | |
| (57) Abstract : The main objective is to give a viable and an effective solution to the Neurological disorder problems. The solutions are only available at the selective specialty health care centers with an expert doctor. Seldom available to the mass public. The abstract is an implementation of Health Care Conceptualization by integrating Real Time Digital Enabled Heart Rate, Sugar and Blood Oxygen level Monitor Introduced with WIFI using IOT with AI-ML implementation and Block-Chain to enable the status of SOCIAL ANXIETY. The claim is to reconcile technological innovation with economic and social challenges of healthcare society for tomorrow. Neurological disorders are frequently associated with ECG and structural cardiac changes with various clinical manifestations. A series of complex interactions exists between the nervous and cardiovascular systems. However, the effects of cardiovascular system on the nervous system have been wisely studied; our understanding of the effects of neurological disorders on the cardiovascular system has only expanded in past two decades. The solution is an implementation of both the concepts merged to present a comprehensive, cost effective, and a viable concept using WIFI technology in healthcare sectors to detect the disorder accurately and analyze time to time. Through the implementation of this concept various pathologies of the cardiovascular system can lead to wide range of alterations on neurological systems. The data is captured electronically. RF-Card is employed to have a richer approach to patient identification. The diagnostic and treatment details are captured and stored in a digital locker. | |
| No. of Pages : 8 No. of Claims : 8 | |

P.Lionel Roshan, student of Third year, Department of **Computer Science and Business Systems**, under the guidance of **Dr.G.Ignisha Rajathi**, Associate Professor, **CSBS** has published a patent titled **“Real Time Neuro Disorder Detection Using Digital Heart Rate Monitor with Wifi Using IoTand AI”**, in the Patent Office, Government of India on 09.02.2024 with the Application No.202441001490 A.

R&D | PAPER PUBLICATION | MECH

Dr.K.P.Yuvaraj, Associate Professor, Department of Mechanical Engineering, has published a research article titled **“Evaluating the Wear and Mechanical Properties of Cotton Fabrics for Women’s Summer Clothing”** in Engineering Proceedings. It is indexed in Scopus.

Proceeding Paper
Evaluating the Wear and Mechanical Properties of Cotton Fabrics for Women’s Summer Clothing †

Natrayan Lakshmaiyaa¹, Kunnathur Periyasamy Yuvaraj², Seeniappan Kaliappan³, Vinay Kumar Reddy⁴ and Haleem Mohammed Ali⁵*

¹ Department of Mechanical Engineering, Sreeetha School of Engineering, SIMATS, Chennai 602107, Tamil Nadu, India; natrayanph@gmail.com

² Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore-641008, Tamil Nadu, India

³ Department of Mechatronics Engineering, KCC College of Technology, Karapakkam, Chennai 600097, Tamil Nadu, India

⁴ Department of Mechanical Engineering, School of Engineering, SR University, Warrangal 506072, Telangana, India

⁵ Department of Mechanical Engineering, SEM Institute of Science and Technology-Ramapuram Campus, Chennai 600089, Tamil Nadu, India

* Correspondence: h.mohammed.2468@gmail.com

† Presented at the International Conference on Processing and Performance of Materials, Chennai, India, 2-3 March 2023.

Abstract: Recyclable yarn has become increasingly significant because of growing environmental consciousness and the necessity to acquire or enhance the qualities of woven materials in the years to come. A cotton yarn’s tensile strength, rip strength, and permeability to air were examined to obtain the intended outcomes. The experiment was carried out on specimens with almost identical structures, and the impact of the weaving and various soft materials was evaluated. This endeavor aims to find the right blend or blends of regenerated fibers to substitute 100% cotton garments. The mechanical strength and physiological characteristics of Tencel textiles mixed with other regenerate cellulose yarns were compared to those of 100% cotton to attain the same or possibly superior end qualities. Thus, cotton fibers, viscose, Tencel, modal, and hemp were used. Standard thread counts of 20 tex were used to make mixed plain woven textiles made of 100% cotton and 50:50 mixes of Tencel with other regenerating materials. The ergonomic qualities, such as air permeability, and mechanical characteristics (tear and tearing assets, pilling, abrasion resistance, and warp- and weft-wise) were assessed. It has been discovered that textiles combined with Tencel perform better than cotton ones. Consequently, it may be said that 100% cotton textiles can be replaced with a Tencel combination, using these regenerating fibers.

Keywords: tear strength; tensile properties; air permeability; cotton fiber; women summer cloth

Check for updates

Citation: Lakshmaiyaa, N.; Yuvaraj, K.P.; Kaliappan, S.; Reddy, V.K.; Ali, H.M. Evaluating the Wear and Mechanical Properties of Cotton Fabrics for Women’s Summer Clothing. *Eng. Proc.* **2024**, *42*, 15. <https://doi.org/10.3390/engproc2024081025>

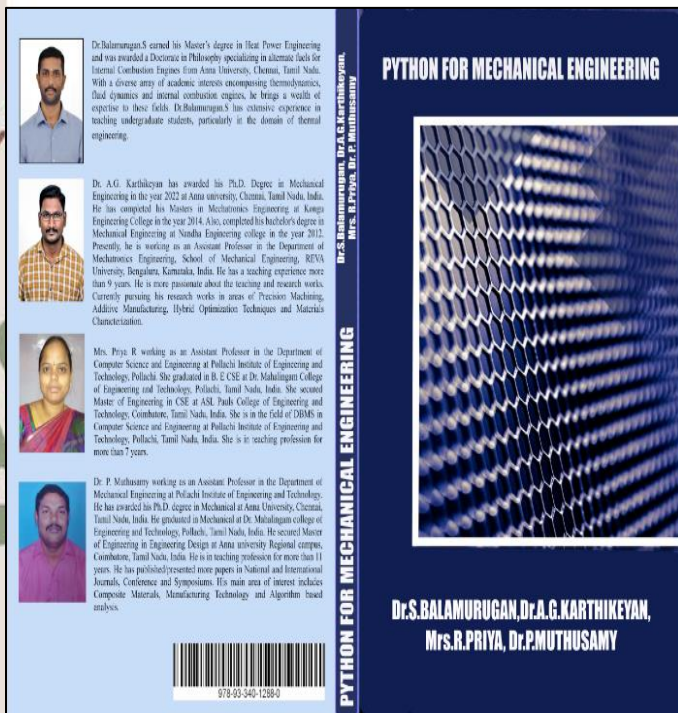
Academic Editors: K. Babu, Anandhi Venkateshan Krishnan, K. Jayakumar and M. Theerthanathan

R&D | PAPER PUBLICATION | IT

Dr.S.DeepaKanmani, Associate Professor Department of IT, has published a paper titled “**Detection of Lung and Colon Cancer using Average and Weighted Average Ensemble Models**” in the Journal of EAI Endorsed Transactions on Pervasive Health and Technology. It is a Scopus Indexed Journal. DOI: 10.4108/eetpht.10.5017

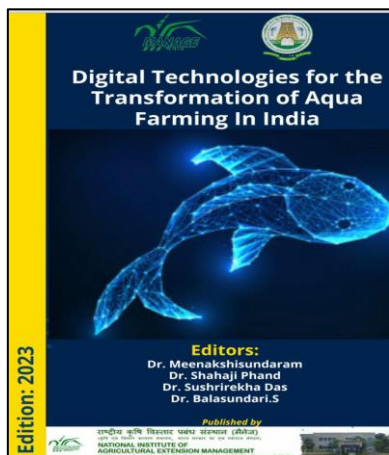


R&D | BOOK PUBLICATION | MECH



Dr.S.Balamurugan, Assistant Professor, Department of **MECH**, has published a textbook titled “**Python for Mechanical Engineering**” with ISBN 978-93-340-1288-0.

R&D | BOOK PUBLICATION | CSBS



Digital Technologies for the Transformation of Aqua Farming in India

Editors: Menaga Meenakshisundaram, Shahaji Phand, Sushirekha Das and Balasundari.S

ISBN: 978-81-19663-83-5

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Chapter-8
AQUATIC REFORMS: HOW DIGITAL TECHNOLOGIES ARE REVOLUTIONIZING FARMING IN INDIA'S WATERS

S.Balakrishnan
Professor and Head, Department of Computer Science and Business Systems,
Department of Computer Science and Engineering (Cybersecurity),
Sri Krishna College of Engineering and Technology, Tamilnada, India.
*tblkpr@gmail.com

Abstract
This chapter explores the impact of digital technologies on aquaculture farming in India's water bodies. With India being home to the world's second-largest aquaculture industry, the incorporation of digital technologies into farming practices has enabled farmers to enhance their production efficiency, improve accountability, and bolster their economic profitability. The chapter evaluates the use of digital platforms such as mobile applications, remote sensors, and artificial intelligence in facilitating the adoption of sustainable and eco-friendly farming practices. These technologies have transformed the way farmers manage their aquaculture systems, improve their stocking patterns, and assist in disease diagnosis, leading to improved fish health and optimal yields. Moreover, digital tools have revolutionized the supply chain management system by enabling efficient cooperation between farmers, suppliers, and buyers through e-commerce platforms and payment mechanisms. The chapter concludes by emphasizing the need for continued digital educational and training intervention for effective utilization and maximum benefits of these technologies.

Keywords: Aquaculture, mobile applications, sensors, artificial intelligence.

INTRODUCTION
Aquatic reforms are transforming the way farming is done in India's waters. With the help of digital technologies, farmers are now able to optimize their water usage, increase their productivity, and enhance the quality of their produce. This revolution in farming practices not only benefits the farmers but also has a positive impact on the environment, as it reduces the amount of waste and promotes sustainable farming. In this chapter, we will explore how

Dr.S.Balakrishnan, Professor and Head, Department of Computer Science and Business Systems, has published a Book Chapter entitled “Aquatic Reforms: How Digital Technologies are revolutionizing in India's Waters” in Digital Technologies for the Transformation of Aqua Farming In India[E-book] TNJFU-Dr.M.G.R.Fisheries College & Research Institute, Ponneri & National Institute of Agricultural Extension Management, Hyderabad, India.

R&D | PAPER PUBLICATION | S&H



Dr.S.Krishnaprakash, Assistant Professor, Department of Science and Humanities(Mathematics) has published a paper entitled “The Characteristics of Circular Fermatean Fuzzy Sets and Multicriteria Decision-Making Based on the Fermatean Fuzzy t-Norm and t-Conorm” in ESCI and Scopus index journal with an impact factor: 2.9.



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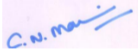
CERTIFICATE OF APPRECIATION

The Institution of Engineers (India) – Erode Local Centre wish to render the whole-hearted thanks to **Dr. D.RASI** , Professor, Dept. of Computer Science and Engineering, Sri Krishna College of Engineering and Technology , Coimbatore for delivering webinar on **“CLOUD COMPUTING AND ITS IMPLEMENTATION”** to the aspiring members and students on 06.02.2024.

The webinar impressed everyone, and it was an eye-opener on the present-day opportunities for the Practicing Engineers and the students.

Once again, we record our hearty thanks for the efforts taken to be with us and for your praiseworthy contributions towards the successful conduct of the event.


We are eagerly looking forward for more such interactions in the years to come.


Dr. C.N.MARIMUTHU
Honorary Secretary


Dr.D.Rasi, Professor, Department of Computer Science and Engineering has been appreciated by The Institution of Engineers (India) – Erode Local Centre for delivering a webinar on “Cloud Computing and its Implementation” to the aspiring members and students on 06.02.2024.

MECH | FDP RESOURCE PERSON

Dr.R.Soundararajan, Professor, Mech has been the resource person for ATAL Sponsored Faculty Development Program on **“Emerging Trends in Composite Material Additive Manufacturing”**, 08.02.2024 organized by the Department of Mechanical Engineering of Dhanalakshmi Srinivasan College of Engineering,



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CERTIFICATE


This is to certify that **Dr.R.Soundararajan**, Professor, Sri Krishna College of Engineering & Technology, Coimbatore has been the resource person on 08.02.2024 for ATAL Sponsored Faculty Development Program on **“Emerging Trends in Composite Material Additive Manufacturing”** organized by Department of Mechanical Engineering of Dhanalakshmi Srinivasan College of Engineering, Coimbatore.

This certificate is presented to him for imparting his valuable knowledge as a Guest Speaker to the participants on the topic entitled **“Research Methodology on Additive Manufacturing”** on 08.02.2024.

We sincerely acknowledge his efforts towards the Faculty Development Program.


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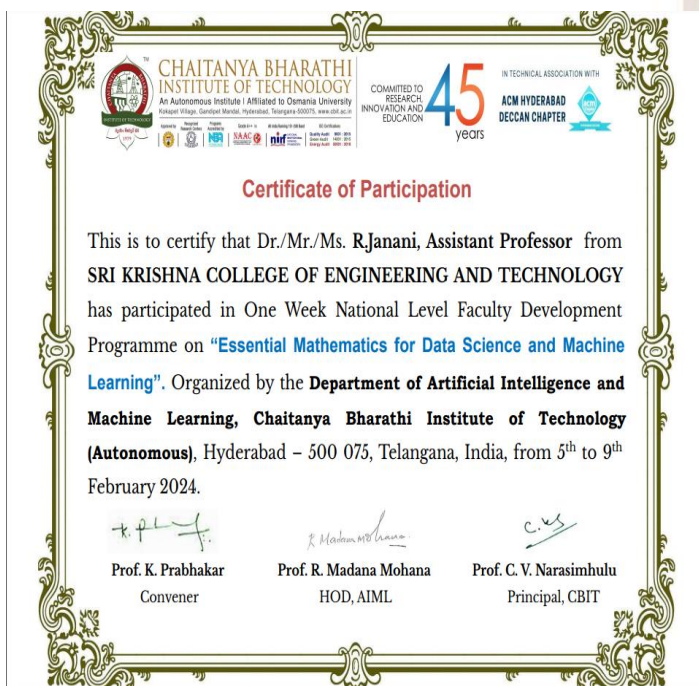
IT | FDP ON DATA SCIENCE AND ITS APPLICATIONS



Dr.S.DeepaKanmani, Associate Professor, IT Department has successfully attended an International online FDP on “**Data Science and Its Applications**” from 05-02-2024 to 07-02-2024 organized by College of Computing and Information Sciences, Ibri, sultanate of Oman.

IT | FDP ON DATA SCIENCE AND MACHINE LEARNING

Ms.R.Janani , Assistant Professor IT has participated in the one week National Level FDP on “**Essential Mathematics for Data Science and Machine Learning**” from 05-02-2024 to 09-02-2024 organized by the Department of Artificial Intelligence and Machine Learning , Chaitanya Bharati Institute of Technology, Hyderabad.

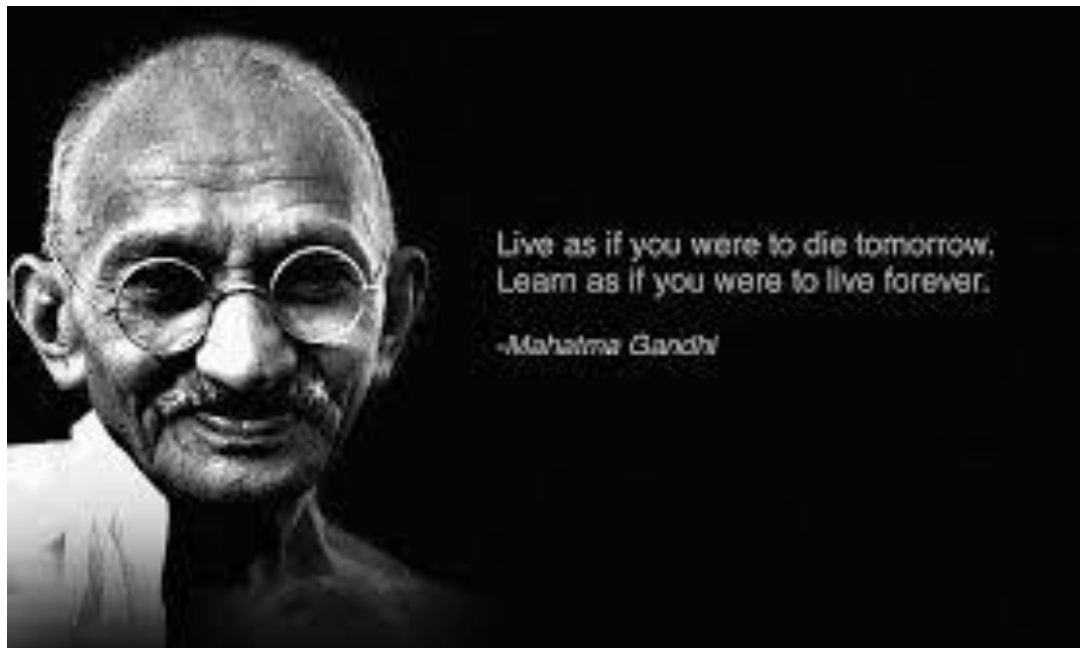


M.TECH CSE | WIPRO CERTIFICATION



Mr. Pradeep G, Assistant Professor, Department of M.Tech Computer Science and Engineering has successfully completed Wipro certified faculty training program course on "Java Full Stack" from 22.1.2024 to 9.2.2024.

LEGENDARY INSIGHTS



MECH | FDP ON ADVANCES IN MATERIALS TECHNOLOGY FOR NEXT GENERATION MANUFACTURING



Dr.A.Sathiskumar, Mr.K.N.Gunasekaran and Dr.S.Balamurugan, Assistant Professors of **Mechanical Department** have successfully completed one week (Online Mode) Faculty Development Program on “**Advances in Materials Technology for Next Generation Manufacturing**” organized by the Department of Mechanical Engineering, Ballari Institute of Technology & Management, Ballari from 01.05.2024 to 05.05.2024.

IT | WIPRO CERTIFICATION



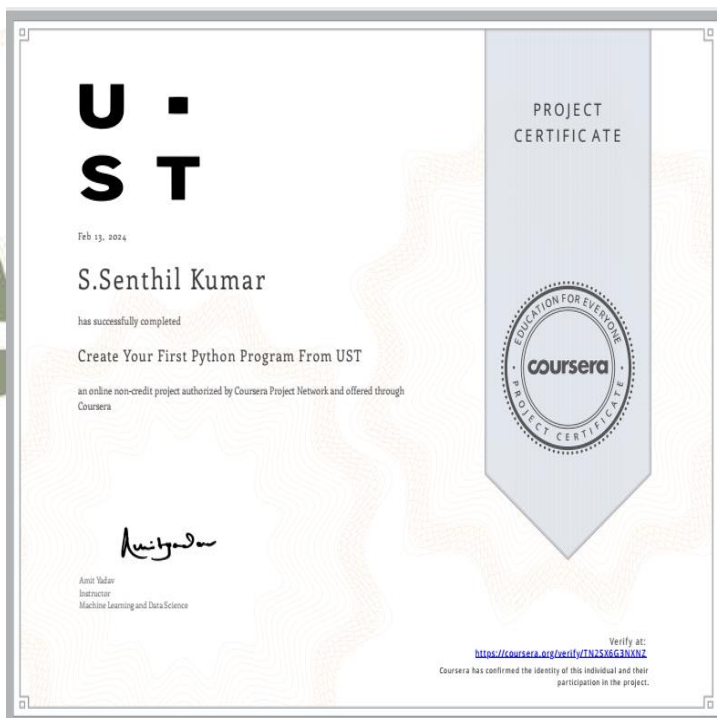
Dr.J.Granty Regina Elwin, Associate Professor, **IT Department** has successfully participated a training program on **Java Full Stack** conducted by Wipro-TalentNext from 22-01-2024 to 09-02-2024.

AI&DS | MICROSOFT CERTIFICATION



Mr.G.S.Pugalendhi Assistant Professor, **AI&DS** has successfully completed **“Build a Conversational Language understanding Model”** and **“Create a Custom Text Classification Solution ”** by Microsoft on February 8,2024.

AI&DS | COURSERA CERTIFICATION



Mr.S.Senthil Kumar Assistant Professor of **AI&DS** has successfully completed **“Create our First Python Program From UST”** by Coursera Project Network and offered through Coursera on 13.02.2024.

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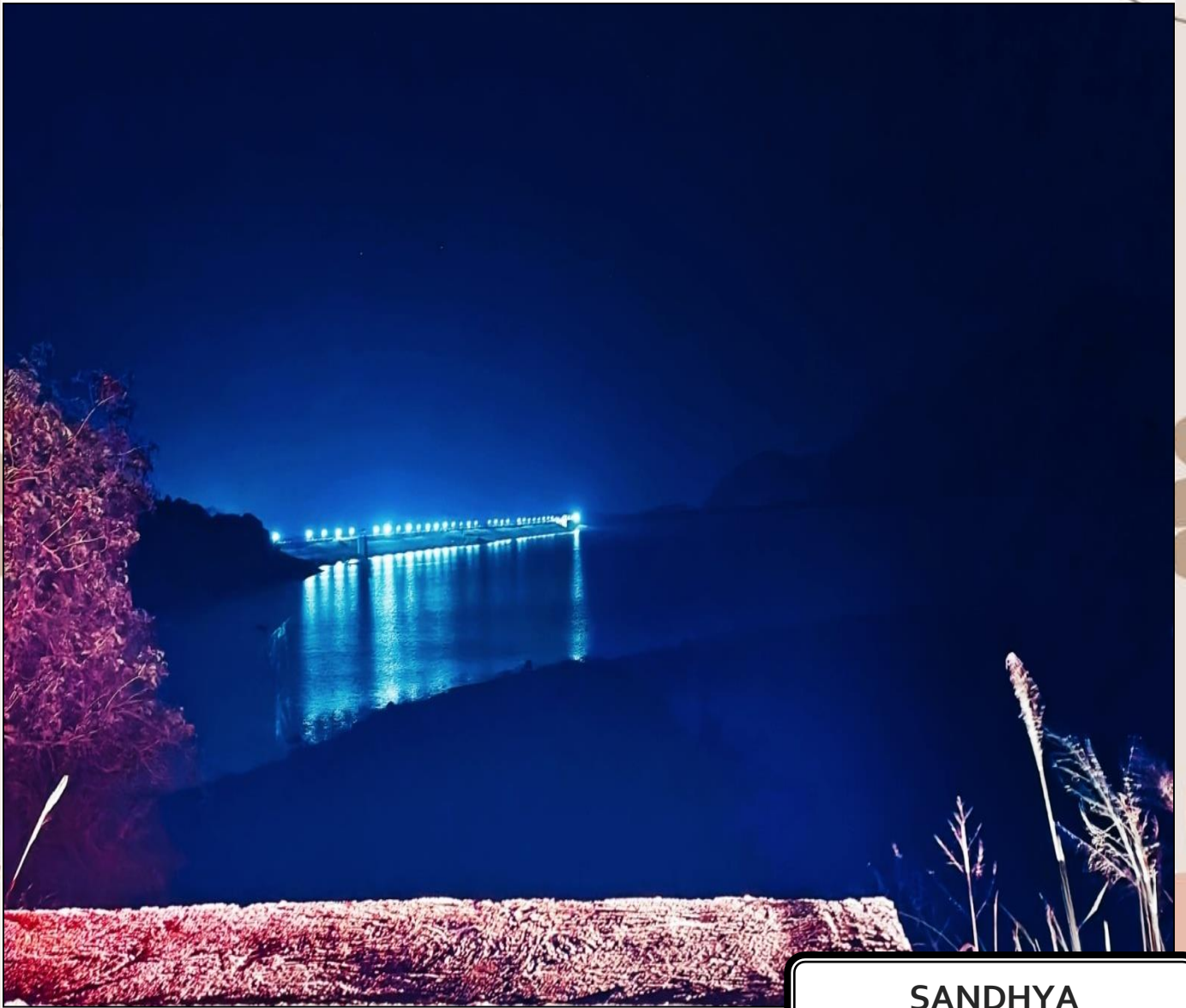
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