











DIGEST

THE PRIDE OF OUR REFLECTION









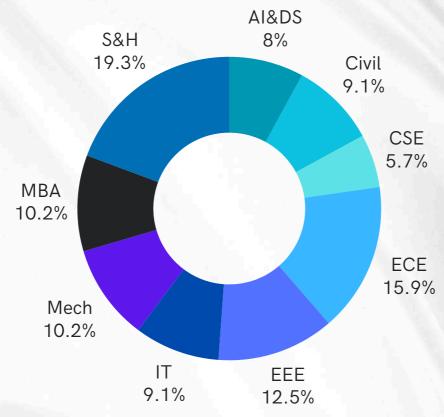






CONTENTS





Departments	Number of Contents
Artificial Intelligence & Data Science - AI&DS	7
Civil Engineering - Civil	8
Computer Science Engineering - CSE	5
Electronics and Communication Engineering - ECE	14
Electrical and Electronics Engineering - EEE	11
Information Technology - IT	8
Mechanical Engineering - Mech	9
School of Management - MBA	9
Science and Humanities - S&H	17

















ACHIEVEMENT





SKCT DIGEST

Sri Krishna College of Technology has won the KRISHNA TROPHY 2024, the State Level Inter Engineering College Staff Cricket Tournament.

Congratulations to the team for their outstanding performance and well-deserved victory!



















ACHIEVEMENT



Sri Krishna College of Technology has achieved an

AA Rating and secured the 69th position in the NPTEL ratings for Jan - May 2024.

A big congratulations and heartfelt thanks to all the students, faculty members, mentors, NPTEL-SPOC, HoDs, and Deans for their dedication and hard work in making this possible.























SKCT ACHIEVEMENT





AY 2023-24 - NPTEL Accomplishment

Certification Level	2023-24 ODD		2023-24 EVEN	
	Student	Faculty	Student	Faculty
Topper	7	1	17	4
Elite + Gold	0	0	5	2
Elite + Silver	52	12	104	10
Elite	248	36	814	18
Successfully Completed	438	17	821	21
Total	738	65	1744	51



1015 students and 100 faculty members completed courses through Coursera



3500+ completed the upskilling NAASCOM certifications during this academic year.





















ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



ACHIEVEMENT

Dr Praveen Kumar E/AP received "Research Award" at VIT-AP University on 24 May 2024. Dedication and his significant contributions to research are truly inspiring. Wishing continued success and many more achievements!



FACULTY ACHIEVEMENT





















ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



CERTIFICATIONS

Ms Sugitha A, AP/CYS, Ms Soundarya S, AP/AIML and Mr Praveen Kumar E, AP/IoT participated in an IP Awareness/Training Programme under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION on 23 April 2024 organised by Intellectual Property Office, India.



























ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



Dr Praveen Kumar E/AP defended his Ph.D. Viva-voce on "Analysis of Hardware - Assisted Security Techniques for Malware Detection and Device Authentication" at VIT-AP University on 23 May 2024.





FACULTY PARTICIPATION

Dr Praveen Kumar E from the Department of **CSE (IOT)** served as one of the reviewers in a Journal Entertainment Computing -**ELSEIVER** (SCIE and Scopus Indexed).























ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



CERTIFICATION

Ms Soundarya S, AP/AIML completed 21-day Master Class on "Natural Language Processing" through online mode offered by Pantech e-Learning Pvt. Ltd., Chennai.

Portock a Learning CERTIFICATE NO PROJECT COMPANY CERTIFICATE OF PARTICIPATION SOUNDANYAS COLLEGE - NO RESIDENA COLLEGE OF TECHNOLOGY han Successfully Completed at Days Masterilass on Natural Language Processing at Funioch e Learning Pet Ltd, Chemon From MALMIL to MACHINE

FACULTY PARTICIPATION

ASP/AI&DS Sira Jacob, published an article on "Machine **Learning Assisted Autonomous Vehicle** in an IoT Environment" in the Journal **Proceedings of the Bulgarian Academy** of Sciences, an SCI Journal.

Co-authored by Dr Lijo Jacob Varghese, Prof./EEE and **Dr Jaisiva** Selvaraj, ASP/EEE.

Доклади на Българската академия на науките Comptes rendus de l'Académie bulgare des Sciences

Tome 77, No 3, 2024

ENGINEERING SCIENCES

MACHINE LEARNING ASSISTED AUTONOMOUS VEHICLE IN AN IoT ENVIRONMENT

Suma Sira Jacob¹⁵⁶, Lijo Jacob Varghese², Jaisiva Selvaraj², Sathish Kumar Shanmugam³

Received on November 2, 2023

Presented by Ch. Roumenin, Member of BAS, on January 30, 2024

Abstract

Abstract

The article presents the design of a controlled autonomous vehicle intended to perform specific job functions for impaired people by integrating Machine learning technique in an IoT environment along with hand-controlled gostures. In this paper, a merel multi-control autonomous vehicle is specially designed to cater the nexts of disabled patients and senior citizens. The operation of this vehicle is fully motorized and gesture-controlled which involves physical implementation of hardware device with software for integrating, coding, interfacing and testing. This Machine learning based autonomous whicle is completely designed with seniors and interactive cameras controlled by a smart processor unit that can control the various tasks which are designed to perform for the physically impaired people.

Key words: gesture control, machine learning, autonomous whicle

















ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



CERTIFICATIONS

Ms Varshni Nandakumar, Student of II B.E CSE (IoT), completed an online course on 'Cloud Computing and Distributed Systems" with SILVER - Elite

through NPTEL.



Ms Apoorva J, Student of II B.E CSE (IoT, completed an online course on **"Data Science for Engineers" with Elite** through NPTEL.



Ms Sree Aishwarya G, Student of II B.E CSE (IoT), completed an online course on "Data Base Management System" with Elite through NPTEL.



STUDENTS PARTICIPATION



















CERTIFICATION S

Mr C Yokeshwaran, Student of III B.E. Civil Engineering, completed an online course on "Advanced Contracts, Tendering and Public Procurement" with

Elite through NPTEL.



STUDENT ONLINE CERTIFICATION

Ms Shruthi Manoharan, Student of III B.E. Civil Engineering, completed an online course on "Advanced Contracts, Tendering and Public Procurement" with Elite

through NPTEL.



STUDENT ONLINE CERTIFICATION



















PUBLICATION

Dr P Subashree/ASP published a paper on "Unleashing the Potential of Ceramic Discards as a Green Marvel in Self-compacting Concrete" in a Journal of Ceramic Processing Research (Q3 Journal), SCIE & Scopus indexed journal, with an impact factor of on 30 April 2024.

> Journal of Caramic Processing Research. Vol. 25, No. 2, pp. 220-227 (2024) ed in restored form: 24 February 2024, Accepted 26 February 2024) https://doi.org/10.364103/cpm2024.25.2.220

W R N A L O F Ceramic **Processing Research**

Unleashing the potential of ceramic discards as a green marvel in self-compacting

P. Subathree**, V. Sampathkumar*, S. Gowtham*, Abeer A. AlObaid* and Itmail Warad*

"Department of Croll Engineering, Sri Krishna College of Technology, Combanne, Tamilhadu, India-641042 "Department of Croll Engineering, Kongu Engineering College, Perundurat, Erode, Tamilhadu, India-638060 "Department of Croll Engineering, Kongunadu College of Engineering and Technology, Trichy, Tamilhadu, India-621215

*Department of Chemistry, College of Science, King Said University, P.O. Box 2455, Rysadh 11451, Saidt Arabia *Department of Chemistry, AN-Najah National University, P.O. Box 7, Nablas, Palestine

A nation's ability to advance depends heavily on its infrastructure, which it frequently built using concrete. Self-compacting concrete (SCC) is well-liked for its mechanical, durability and workability. But there is a problem: annual aggregate is scarce. In light of the depletion of natural resources, investigating substitute materials is estential to maintaining building quality. The ceramic file bottienes has developed into a highly industrialized sector within the last 20 years, producing a large amount of truth. This truth present environmental richt and pollutes the sir, water, and land times it is made up of ceramic combinations. The environment and public health are advertedly affected by around 30% of the truth produced every day in the ceramic industry. Although some research points to the possible use of ceramic waste in building materials, its acceptance is humpered by a lack of clear regulations, which put the sector in the face of growing waste management difficulties. This research looks at using leftover ceramic all as a fine aggregate in SCC. Sci SCC mixes were made, which earmount of leftover ceramic tile ranging from 0% to 50%. Based on frels, mechanical, and durability qualities, the mix's deutity and homogeneity are enhanced by the use of discarded ceramic tile. The SCC combinations provide positive results in terms of improved mechanical structured and optimum durability qualities, especially when natural Machanic substitutes in terms of improved mechanical structured and optimum durability qualities, especially when natural Machanic substitute in terms of improved mechanical structured and optimum durability qualities, especially when natural Machanic substitute in terms of improved mechanical structured and optimum durability qualities, especially when natural Machanics and its substitutes. SCC combination: provide positive results in terms of im-ecially when natural M-rand is substituted by 40%.

Keywords: Ceramic waste, Durability and properties, Self-compacting concrete, SCC mixes, Workshility properties.

Introduction

Alkali-activated mortars (AAMs) were evaluated for their efficacy by substituting wasts ceramic powder (WCP) in different weight percentiges for binding material (50, 60, and 70%). A flow test was part of the assessment to ascertain workshillry, and the results showed a significant relationship between WCP concentration and flow values [1]. There was a steady rise in flow values as the fraction of WCP increased from 50% to 70%. This finding implies that adding larger amounts of WCP has a beneficial effect on how workable the alkali-activated mortars are. According to the study, it is possible to strategically add waste ceramic

the study, it is possible to strategically add maste ceramic powdered material to improve the flow properties of AAMs, which might have advantages for construction applications where better workshiltry is essential [2]. Slag and cement in SCC are partially replaced by WCP. Between groups one (9%, 28%, 57%) and two (9%, 20%, 40, 60%) by weight of cement, different amounts of waste material were added [3]. The recentcher

has looked at the different characteristics of both freshlypoured and dried concrete. Based on the investigation, it was concluded that using WCP to replace 40% of the cement weight in fresh and cured concrete produced. good results that met international standards [4]. The way WCP affects SCC. Different percentages of WCP, including 0%, 5%, 10%, 15%, 20%, 25%, 30%, and fly ash 25%, were used in place of cement. Two varieties of concrete grades, such as M-30 and M-35, were examined concrete graces, such as No-30 and No-37, were extensioned by the rescencher. According to the study, adding WCP in increments of 0 to 10% and 23% fly ash was found to be advantageous for SCC. The SCC's splitting messile stwargth, modulus of rupture, and axial strength all declined as the amount of WCP increased [5].

Investigating the many characteristics of SCC mixes, such as density, axial strength, split tensile strength, UPV, and bond performance, WCP is used in SCC as OPV, and come performance, WCP it make in SCC is a partial replacement of cament in amounts ranging from five percentage and twenty percentage, five percentage of interval by weight. As the WCP ratio increased, to did the new concrete's flowability [6]. Up to 13% cement substitution with unuse ceramic powder yields favorable results; however, any increases in WCP content result. in lower compressive and split tensile strengths [7]. Utilizing WC tile powder as a substitute for up to 80%





^{*}Commonding either: Tel: +91-8870393349

















PUBLICATION

Ms K Vedhasakthi/AP published a paper on "A Proposed Model and Performance Study on Prefabricated Cage Reinforced Self-Compacting Concrete Deep beams" in a Iranian Journal of Science and Technology - Transactions in Civil Engineering (Springer), SCIE/WoS and Scopus indexed journal with an Impact factor of 1.7 on 05 May 2024.

Iranian Journal of Science and Technology, Transactions of Civil Engineering https://doi.org/10.1007/s40996-024-01440-7

RESEARCH PAPER



A Proposed Model and Performance Study on Prefabricated Cage-Reinforced Self-compacting Concrete Deep Beams

K. Vedhasakthi1 - R. Chithra2

Received: 23 January 2024 / Accepted: 8 April 2024 © The Author(s), under exclusive licence to Shiraz University 2024

Abstract

High-rise buildings, bridges, pile foundations, and offshore structures comprise deep beams as an important structural component for transferring heavy loads. The modern era of construction demands speedy construction which led to the need for a change in reinforcement system known as a prefabricated cage system (PFCS). This study focuses on the application of PCS in deep beam construction using self-compacting concrete (SCC). The experimental investigation has been carried out by testing twelve deep beams, out of which two deep beams have been constructed with conventional reinforcement and ten deep beams have been constructed with prefabricated cages. The experimental behaviour of deep beams has been examined with different web reinforcement configurations and shear-span to depth ratios of 0.5, 0.75, and 1. The findings showed that as the a/D ratio rises, the failure mode shifts to flexural shear. Prefabricated cage-reinforced deep beams, incorporating both vertical and horizontal web reinforcement, have demonstrated higher ultimate strength ranging from 7.1% to 10.6% compared to conventional deep beams. A reserve strength factor of 0.45 indicates good reserve strength efficiency. Moreover, an increasing trend in displacement ductility and a decreasing trend in energy absorption capacity have been observed with the increase in the a/D ratio. The energy absorption capacity of PCS-reinforced deep beams has been observed to be in the range of 20.11% to 33.38% higher than conventional ones. The proposed equation for predicting the ultimate strength of prefabricated cage-reinforced deep beams is conservative, while the ACI 318–2019 equation slightly overestimate the ultimate strength. Thus, PCS represents an efficient construction method for deep beams, offering both commendable ultimate strength and ductility.

Keywords Prefabricated cage system - Self-compacting concrete - Deep beams - Displacement ductility - Energy ductility - Strut and tie model

List of Symbols

A_{nt} Area of longitudinal steel reinforcement
A_p Area of CFS plate
Yield strength of steel reinforcement
Yield strength of CFS plate
A_{rea} Area of vertical web reinforcement
VH Vertical and Horizontal web reinforcement
V Vertical-only web reinforcement

 K. Vodhasakthi shakthicivil@gmail.com

R. Chithra

chithrajothin@gmail.com

Published online: 05 May 2024

Department of Civil Engineering, Sri Krishna College of Technology, Coimbatore, Tamilnadu 641042, India

Department of Civil Engineering, Government College of Technology, Coimbatore, Tamilnadu 641013, India Horizontal-only web reinforcement

Overall depth Effective depth

Cube compressive strength of concrete Cylinder compressive strength of concrete

Displacement ductility factor

Energy ductility index

Ultimate strength Shear contribution of concrete

V_s Shear contribution of steel

V_u^{exp} Experimental ultimate strength V_{pred} Predicted ultimate strength based on the pro-

posed equation

V_u^{ACI} Predicted ultimate strength based on ACI 318-2019 STM

Abbreviations

CFS Cold Formed Steel
ACI American Concrete Institute

Springer 🚇















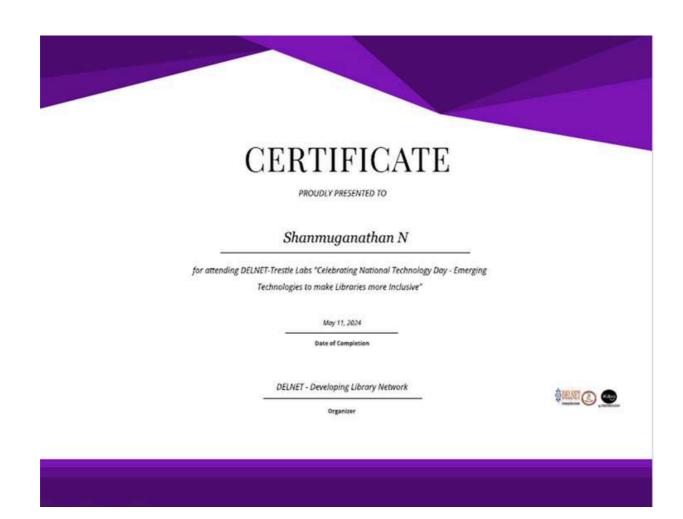






CERTIFICATION

Dr N Shanmuganathan/AP attended a webinar on "Celebrating National Technology Day – Emerging Technologies to make Libraries more Inclusive" organised by DELNET- Developing Library Network on 11 May 2024.



















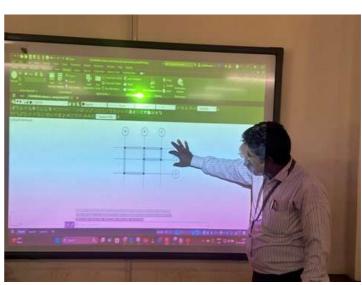




EVENT

The Department of Civil Engineering in association with Institutions Innovation Council and Structekz Club organised a Workshop on "Innovative Practices for Efficient Detailing Workflows using AutoCAD" for the Students of First and Second B.E. Civil Engineering on 27 April 2024. Dr V Sathish Kumar, ASP/Civil, served as the Resource Person.









EVENT ORGANISED





















CERTIFICATION



Geographic Information Systems



Elite

Mr Muhammed Saiful Islam – III B.E. Civil Engineering

Completed

Mr Mohan Raj K – III B.E. Civil Engineering Mr Mathavan P – III B.E. Civil Engineering

STUDENTS CERTIFICATION





















CERTIFICATION



Education for Sustainable Development



Elite TOPPER

Mr Srinivas K - I M.E. Structural Engineering

Completed

Mr Nishanth - I M.E. Structural Engineering Mr D R Sarankumar - I M.E. Structural Engineering

STUDENTS CERTIFICATION

























Advanced Contracts, Tendering and Public Procurement



(Funded by the MoE, Govt. of India)



This certificate is awarded to

GURUBARATHVAJ

for successfully completing the course

Advanced Contracts, Tendering and Public Procurement

with a consolidated score of

Online Assignments | 15.63/25 | Proctored Exam | 30/75

Total number of candidates certified in this course: 227

Deventes Jelihal

Prof. Devendra Jalihal

Jan-Apr 2024

(12 week course)



Indian Institute of Technology Madras

Roll No: NPTEL24LW01S1053805555

To verify the certificate



No. of credits recommended: 3 or 4

STUDENT CERTIFICATION











Ms N Jothi Lakshmi/AP completed an online course on "Municipal Solid Waste Management in Developing Countries" authorized by École Polytechnique Fédérale de Lausanne and offered through Coursera on 16 May 2024.



Ms N Jothi Lakshmi/AP completed an online course on "Smart Cities – Management of Smart Urban Infrastructures" authorized by École Polytechnique Fédérale de Lausanne and offered through Coursera on 17 May, 2024.













Ms N Jothi Lakshmi/AP completed an online course on "Renewable Energy: Fundamentals and Job Opportunities" authorized by University at Buffalo and offered through Coursera on 22 May 2024.



Ms N Jothi Lakshmi/AP completed an online course on "The Science of Success: What Researchers Know that You Should Know" authorized by University of Michigan and offered through Coursera on 21 May 2024.













Ms K Vedhasakthi/AP completed an online course on "Smart Cities – Management of Smart Urban Infrastructures" authorized by École Polytechnique Fédérale de Lausanne and offered through Coursera on 17 May 2024.



Ms N Jothi Lakshmi/AP completed an online course on "The Science of Success: What Researchers Know that You Should Know" authorized by University of Michigan and offered through Coursera on 21 May 2024.













Ms K Vedhasakthi/AP completed an online course on "Renewable Energy: Fundamentals and Job Opportunities" authorized by University at Buffalo and offered through Coursera on 22 May 2024.



Mr Manoj K M/AP completed an online course on "Municipal Solid Waste Management in Developing Countries" authorized by École Polytechnique Fédérale de Lausanne and offered through Coursera on 16 May 2024.













Ms G Selina Ruby/AP completed an online course on "Project Management: Foundations and Initiation" authorized by University of Colorado Boulder and offered through Coursera on 18 May 2024.



Mr R Ramesh/AP completed an online course on "ChatGPT for Beginners: Save time with Microsoft Excel" authorized by Coursera Project Network and offered through Coursera on 22 May 2024.













Dr V Sathish Kumar/ASP completed an online course on "Geographic **Information Systems**" organised by IIT Roorke and offered through **NPTEL** during January-April 2024.



Mr G Jaya Kumar/AP completed an online course on "Education for Sustainable Development" organised by IIT Kharagpur and offered through NPTEL during January-April 2024.













Ms G Selina Ruby/AP completed an online course on "Education for Sustainable Development" organised by IIT Kharagpur and offered through NPTEL during January-April 2024.



Ms G Selina Ruby/AP completed NPTEL-AICTE FDP on "Education for Sustainable Development" organised by IIT Kharagpur during January-April 2024.











CERTIFICATION

Ms N Jothi Lakshmi/AP completed a hybrid course on "A Hybrid Course on Water Quality – An Approach to People's Water Data" offered by IIT Madras, Tel Aviv University and KMCH Research Foundation during January-May 2024.







Centre for Outreach and Digital Education Indian Institute of Technology Madras

This is to certify that

Jothi Lakshmi N

has successfully completed the theory and practical session in

"A Hybrid Course on Water Quality – An Approach to People's Water Data"

offered jointly by IIT Madras, Tel Aviv University, and KMCH Research Foundation during the period January 2024 - May 2024.

Comme

Prof. T. Pradeep Course Coordinator Department of Chemistry IIT Madras Devend a grichal

Chairman
Centre for Outreach and Digital Education
IIT Madras

















COMPUTER SCIENCE AND ENGINEERING



PLACEMENT

Mr Prasana V, Ms Deeksha S and Mr Magesh Prabhu C, bagged an internship offer at IBM with a stipend of Rs. 30,000/-.



PLACEMENT DETAILS



Ms G Sandhya/CSE & Dr R Ganesh/S&H, Asst. Professors, conducted an Quarterly Progress Review Meeting of Quarter 3 at CSI College of Engineering, Ketti, The Nilgiris on 09 May 2024.

REVIEW MEETING



















COMPUTER SCIENCE AND ENGINEERING



CERTIFICATION

Dr M Dhurgadevi/ASP
presented a paper in the
National conference on "Low
Carbon Materials for
Environmental Sustainability
2024" organised by
Sathyabama Institute of
Science and Technology,
Chennai.



FACULTY PRESENTATION



Dr R Vidhya/ASP presented a paper in the 14th International conference on "Science & Innovation Engineering 2024" organised by Prince Shri Vekateswara Padmavathy Engineering College, Chennai in association with Manipal University College, Malaysia.

FACULTY PRESENTATION























COMPUTER SCIENCE AND ENGINEERING



PUBLICATION

Ms G Sandhya/AP published two papers on "Prediction of Diabetics Using Hybrid Feature Selection with KNN and ANN" in the Proceedings of World Conference on Information Systems for Business Management (Indexed in Scopus) and "Efficient Fire Detection and Automation Using Haar Cascade" in the Proceedings of International Conference on Information and Communication Technology for Competitive Strategies (Indexed in Scopus).

Prediction of Diabetics Using Hybrid Feature Selection with KNN and ANN	Contract Con		
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FACULTY PUBLICATION

























EVENT

Ms G Sandhya/CSE and Dr R Ganesh/S&H, Asst. Professors, served as Resource Persons in a Workshop on "Intellectual Property Rights (IPRs) and IP Management" for Startup at CSI College of Engineering, Ketti, The Nilgiris on 09 May 2024.





EVENT ORGANISED























PARTICIPATION

Dr C Senthilkumar/AP participated in "Tektronix Semicon Skill India Programme" organised by the Tektronix India Pvt. Ltd., Bangalore on 03 May 2024.



























PARTICIPATION

Dr M Thillai Rani, Dr M Priyatharishini and Dr M Thirrunavukkarasu completed 12-week NPTEL course on "Digital Design with Verilog" and secured the Topper Position.



Ms S Jaipriya/AP completed 12-week NPTEL course on "Computer Networks and Internet Protocol" and secured "Elite."

























Dr M G Sumithra, Principal, published a research article on "Improved Spectrum Prediction Model for Cognitive Radio Networks Using Hybrid Deep Learning Technique" in an International Journal of Intelligent Networks in May 2024.

5/13/24, 6:58 PM



ScienceDirect

International Journal of Intelligent Networks

Available online 10 May 2024
In Press, Journal Pre-proof
What's this?

Improved Spectrum Prediction Model for Cognitive Radio Networks Using Hybrid Deep Learning Technique

Sumithra M.G. 1 St. Suriya M. 2 Q SS

- Sri Krishna College of Technology, Caimbatore 641 042, Tamil Nadu, India
- ² Sri Eshwar College of Engineering, Caimbatore 641 202, Tamil Nadu, India

Received 19 December 2023, Revised 2 April 2024, Accepted 4 May 2024, Available online 10 May 2024.

(1) What do these dates mean?

Show less ^

i≡ Outline of Share 55 Cite

https://doi.org/10.1016/j.ijin.2024.05.001 76

Under a Creative Commons license 25

Highlights

- · To explore the spectrum shortage in 5G and Beyond networks using Cognitive Radio (CR) Technology for dynamic and intelligent spectrum access.
- · We propose a novel hybrid channel state prediction model using deep learning called Hybrid LSTM-MLP (Long Short-Term Memory-Multilayer Perceptron) to enhance the spectrum prediction task in 5G networks using CR.
- . The performance of the proposed model is evaluated using a real-world GSM 900 Spectrum Dataset.

ABSTRACT

Cognitive Radio (CR) technology has been highlighted as one of the most likely answers to the issue of spectrum shortage with the rise of fifth generation and beyond communication. Secondary users (SUs) in cognitive radio networks (CRN) must continuously monitor the spectrum to forecast channel occupancy by primary users (PUs) based on fundamental factors, such as location, time, and RF band. A hybrid deep learning model called LSTM-MLP (Long

w.scienoedirect.com/science/article/pii/S26666030240002287via%3Dihub#abs0010

FACULTY PUBLICATION























Dr M Thillai Rani/ASP published a research article on "IOT-based Smart and **Economic Greenhouse Monitoring and Auto-tuned Control System for Rural** Farming" in the Journal of Theoretical and Applied Information Technology (JATIT), an Open Access International Journal - Scopus Indexed in April 2024.

Journal of Theoretical and Applied Information Technology



ISSN: 1992-8645

IOT BASED SMART AND ECONOMIC GREENHOUSE MONITORING AND AUTO-TUNED CONTROL SYSTEM FOR RURAL FARMING

M. THILLAI RANL, RAHUL S G, S. D. GOVARDHAN, DR. S.VELMURUGAN, J. REJINA PARVIN, P. ROHINI, RAJKUMAR.R

¹Department of ECE, Sri Krishna College of Technology, Coimbatore ² Department of Electronics and Communication Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, India

Department of ECE, Dhanalakshmi Srinivasan College of Engineering & Technology, Chennai, India.
Department of Biomedical Engineering, Dr. N.G.P. Institute of Technology, Coimbatore, India.
Department of ECE, Sri Krishna College of Engineering and Technology, Coimbatore, India. Department of CSE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, India

Department of ECE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, India

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ABSTRACT

ABSTRACT

Greenhouse cultivation plays a significant role in the agricultural sector, particularly in Asia, where it supports a substantial population. However, the challenges of water scarcity, food shortages, and the need for precise environmental parameter control necessitate innovative solutions. In this study, an IoT-based Smart Greenhouse Monitoring System is proposed to optimize greenhouse conditions and improve agricultural practices. This system utilizes sensors to monitor key environmental parameters within the greenhouse such as temperature, light intensity, and soil moisture. These sensors continuously collect data, which is then transmitted to a microcontroller board. The board performs data analysis and sends the which is then transmitted to a microcontroller board. The board performs data analysis and sends the information to an online web server through a Wi-Fi connection, allowing real-time monitoring and control. By leveraging the Internet of Things (IoT) technology with an auto tuned PID Control algorithm. The developed system also enables efficient water usage during crop irrigation by providing accurate information on soil moisture levels. Also, the IoT-based Smart Greenhouse Monitoring System leads to labour savings and enhanced time management. Through automated monitoring and control, farmers can optimize their workflow and reduce manual interventions, resulting in increased efficiency and productivity. Overall, this study aims to integrate IoT technology into greenhouse operations, contributing to the sustainability, productivity, and economic viability of greenhouse agriculture. A comparative analysis is also carried out between ATmega-based microcontroller Vs PID algorithm implemented Arduino microcontroller. By providing real-time monitoring capabilities, the IoT-based Smart Greenhouse Monitoring System offers a promising solution to optimize resource usage, enhance crop yield, and foster economic growth in the agricultural sector

Keywords: Soil moisture, PID controller, IoT Technology, Agriculture, Greenhouse

INTRODUCTION

Greenhouse cultivation has become an integral part of the agricultural sector, playing a crucial role in ensuring food security and promoting sustainable farming practices, particularly in densely populated regions like Asia. However, the

agricultural industry faces numerous challenges such as water scarcity, food shortages, and the need for precise environmental control within greenhouses. To address these challenges, the integration of Internet of Things (IoT) technology offers a promising solution Hikma et al., [1]. By

FACULTY PAPER PUBLICATION























Dr K Muthulakshmi, Professor, published a research article on "Face Recognition Smart Attendance System using Convolutional Neural Networks" in the journal of Przegląd Elektrotechniczny, indexed in ESCI in May

1. M.A.P.Manimekalai¹, 2. Esther Daniel¹, 3.T.Mary Neebha¹,4. K.Muthulakshmi²,5. Ryan Paul Jess.C¹, 6.Raguram.S¹

doi:10.15199:48.2024.05.46

Face Recognition Smart Attendance System using Convolutional Neural Networks

FACULTY PUBLICATION

















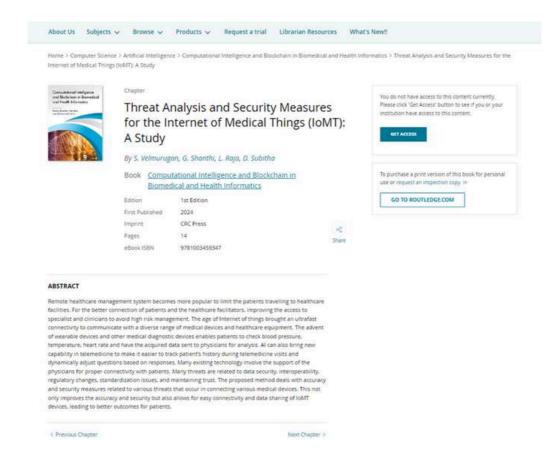






Dr G Shanthi, Professor, published an article on "Threat Analysis and Security Measures for the Internet of Medical Things (IoMT): A Study" in a scopus indexed book on Computational Intelligence and Blockchain in Biomedical and Health Informatics in May 2024.

(Edition: First Edition, First Published: 2024, Imprint: CRC Press, Pages: 229-242).



FACULTY PUBLICATION





















CERTIFICATION

Dr S Ramya/AP attended a two-day FDP on "Resource Management, Security & Architecting with Cloud" Kongu Engineering organised by College, Erode during 03-04 May 2024.



FACULTY PARTICIPATION



Mr Senthilnathan N, Mr Vishnu Rohit B, Mr Tamilselvan N and Mr Vimal C, Students of Second B.E> ECE, participated in "HackFest Regional 2024 Hackathon" in the domain "Climate change" at KPR Institute of Engineering and Technology, Coimbatore.

STUDENTS PARTICIPATION





















CERTIFICATION

Shanthi/ASP received Appreciation Certificate of translating the files of the course on "Electrical Machines - II" offered by IIT KGP in Tamil language.



FACULTY CERTIFICATION



Education for Sustainable Development



Elite & Gold:

Dr S Nithya Devi, Assistant Professor.























CERTIFICATIONS



Education for Sustainable Development



Elite & Silver:

Dr P Divya, Assistant Professor.

Introduction to Internet of Things

Elite & Gold:

Mr Cilambarasan V, Student of Final B.E. ECE.

Elite & Silver:

Ms Abinaya Gunasekaran V, Student of Final B.E. ECE.

Mr Adithya S S, Student of Final B.E. ECE. Ms Amirtha Varshini S, Student of Final B.E. ECE. Mr ArunKrishna E S, Student of Final B.E. ECE.























CERTIFICATIONS



Computer Networks and Internaet Protocol

Elite & Silver:

Ms Afrin Banu K, Final Year ECE Ms Janani RS, Flnal Year ECE Ms Janani S, Final Year ECE

Design Thinking - A Premier

























CERTIFICATION

Ms Subhadharani M completed courses on "Getting Started with Cloud Acquisition," "AWS Billing and Cost Management" and "AWS Foundation: Getting Started with the AWS Cloud Essentials" offered by aws training and certification on 10 May 2024.







STUDENT CERTIFICATIONS























CERTIFICATIONS

Dr M Thillai Rani/ASP completed online courses on "Foundations of Cybersecurity" & "Programming for Everybody" offered through Coursera.





FACULTY CERTIFICATION





















CERTIFICATIONS

Dr N Manikanda Prabu/AP completed online courses on "Python Data Structures" & "Programming for Everybody" offered through Coursera.





FACULTY CERTIFICATION























CERTIFICATION

Dr S Ramya/AP completed various courses through Coursera during the month of May 2024.



FACULTY CERTIFICATIONS





















PLACEMENT

Ms R Roopa Thangam and Ms A Sandhya, Students of Final B.E. ECE bagged Internship offers from "Kone" with a stipend of Rs. 15,000/- and CTC of 4.5 LPA.



Ms R Roopa Thangam



Ms A Sandhya

Mr Ajay S, Students of Final B.E. ECE, bagged Internship offers from "Multicoreware" with Internship stipend of Rs. 15,000/- and CTC of 7.2 LPA.



PLACEMENT DETAILS















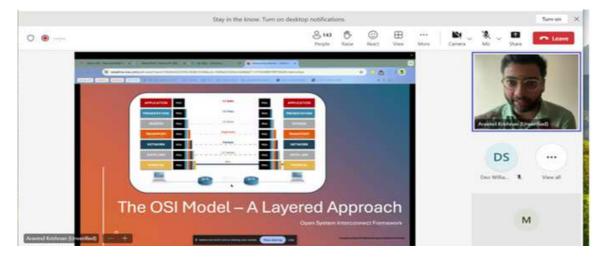






EVENT

The Department of Electronics and Communication Engineering collaboration with IETE organised an Industry Expert Talk on "Unlocking the Mysteries of Transport and Application Layers" on 10 May 2024. Mr Aravind Krishnan, Physical Multi-Cloud Engineer, Carelon Global Health Solutions, Country Limerick, Ireland served as a Resource Person.





EVENT ORGANISED

















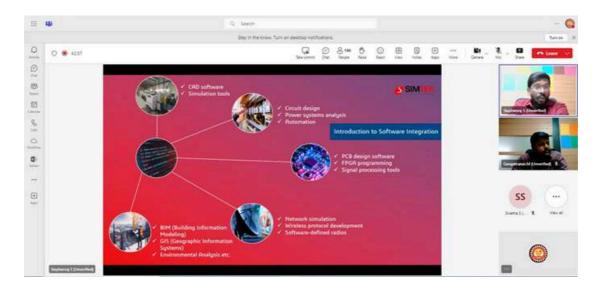




EVENT

The Department of Electronics and Communication Engineering organised an Industry Expert Talk on "Software Advancement: Transitioning from Industry Applications to Modern Era Customization and Support" on 10 May 2024 through online mode. Mr S Stephen Raj, Technical Manager, Sim Technologies Pvt. Ltd., Coimbatore acted as Resource Person.





EVENT ORGANISED

























Mr Vashishsdh T R, student II Year EEE department, has received a three-month internship from Geak Minds, Chennai



STUDENT ACHIEVEMENT



Mr Vashishsdh T R, student II Year EEE department, has secured sixth rank in Round 2: Online Deck Submission of the InnovatED:The EdTech Case Competition organized by Master's Union School of Business.

STUDENTS ACHIEVEMENT























Mr. Dyanesh S, final year, Electrical and Electronics Engineering has been offered the esteemed position of Product Solution Engineer at E3 Innovations, Bangalore.



STUDENT ACHIEVEMENT

Mr Leninpugalhanthi P, Assistant professor, department of Electrical and Electronics Engineering, has received a patent grant in the title "Designing Helmet by attaching gadgets for enhancing the safety of rider and pillion rider" from Indian Patent Office.



FACULTY PUBLICATIONS

























Mr.J.Dhanaselvam AP/EEE department has successfully defended his PhD VivaVoce on 30 April 2024.



FACULTY PARTICIPATION

Dr Lijo Jacob Varghese and Dr Jaisiva S, have published an article in the title "Machine Learning Assisted Autonomous Vehicle in an IoT Environment" in Proceedings of the Bulgarian Academy of Sciences, Volume 77, Issue 3, DOI: https://doi.org/10.7546/CRABS.2024.03.10, Scopus indexed.

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FACULTY PUBLICATIONS

























CERTIFICATION

Dr Jaisiva S, Dr Dilipkumar S and Dr Lijo Jacob Varghese, Faculty, department of Electrical and Electronics Engineering, has passed NPTEL certification in the course **NBA Accreditation and Teaching Learning in Engineering.**







FACULTY ONLINE CERTIFICATION

























CERTIFICATION

Mr Harish R, Faculty, department of Electrical and Electronics Engineering, has passed NPTEL certification in the course Deep Learning.



FACULTY ONLINE CERTIFICATION

























The Department of Electrical and Electronics in association with IIC organised a Guest Lecture on "Intellectual property framework in the Constitution of India:Innovating governance" to the Students of II EEE and ECE, facilitated by Mr A Nirmal Kumar, Advocate, Civil & Criminal Practitioner, Pollachi on 02 May 2024.







EVENT ORGANIZED

























1.The Department of Electrical and Electronics in association with IIC organised a Guest Lecture on "Process Design and Development in Electric Vehicles" facilitated by Mr A Saravanan, Lead Power System Engineer, ABB, Bangalore on 03 May 2024.







EVENT ORGANIZED

























ACHIEVEMENTS

The Students of II B.Tech. IT secured the **Topper Position** in a course on **"Programming in Java"** offered through NPTEL in April 2024.



Mr JAISURYAH K P



Mr DHAYANANTH K M



Mr MAHUDESH M



Mr KESAV KUMAR J



Mr RAM SUNDAR R

STUDENTS ACHIEVEMENT

























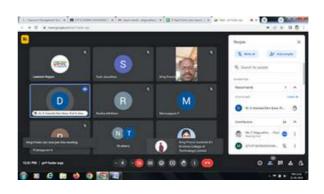
REVIEW MEETING

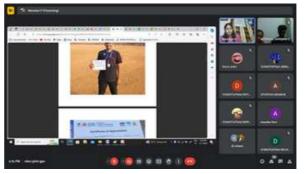
The Academic Review Meeting for the Students of II & III B.Tech. IT was conducted on 11 May 2024 through online mode. More than 130 parents participated in the meeting. The following points were discussed in the meeting:

- 1. Overview of Academic Performance
- 2. Discussion of Challenges and Opportunities
- 3. Strategies for Improvement
- 4. Attendance
- 5. Placement activities
- 6. Outside Participation
- 7. Internship courses
- 8. AICTE activity points
- 9. Discipline
- 10. Dress code









ACADEMIC REVIEW MEETING























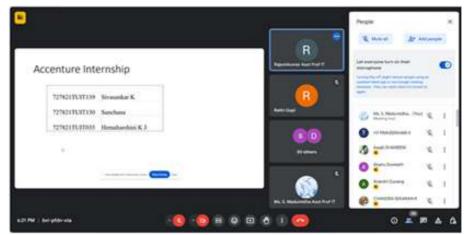


REVIEW MEETING

The Academic Review Meeting for III IT students was conducted on 11.05.2024 in online mode. More than 130 parents participated in the meeting. The following points were discussed in the meeting.

- Overview of Academic Performance
- 2. Discussion of Challenges and Opportunities
- 3. Placement activities
- 4. Placement test performance
- 5. Attendance
- 6. Discipline
- 7. Dress code.





ACADEMIC REVIEW MEETING





















INFORMATION TECHNOLOGY



PUBLICATION

Mr K Suresh Kumar/AP published book chapters in the Springer Book on "Spatiotemporal Data Analytics and Modelling Techniques and Modelling."

FACULTY PUBLICATION

Mr K Suresh Kumar/AP published a research article on "Sentiment Analysis of Short Texts Using SVMs and VSMs-Based Multiclass Semantic Classification" in the Applied Artificial Intelligence, an International Journal.



FACULTY PUBLICATION

























ACHIEVEMENT

Ms P Manohari P/AP delivered a Guest Lecture in a workshop on "Intellectual Property Rights (IPRs)" organised by Sree Sakthi Engineering College, Karamadai. The workshop covered key topics including:

- Understanding the different categories of Intellectual Property (IP)
- The importance of IP protection
- Developing an IP strategy
- The patenting process
- Trademark and copyright protection
- Trade secret protection



FACULTY ACHIEVEMENT

























REVIEW MEETING

Ms P Manohari/AP conducted the Quarterly Progress Review Meeting for Quarter 3 at Sree Sakthi Engineering College, Karamadai on 25 May 2024.





REVIEW MEETING





















INFORMATION TECHNOLOGY



CERTIFICATIONS



Cloud Computing

Elite & Silver:

Ms Vishmaya, II B.Tech. IT Ms Sharon Reshma Arulprakash, II B.Tech. IT Ms Sangamithra, II B.Tech. IT

Programming in Java

Elite:

Mr Lalith Kumar, II B.Tech. IT Mr Jeeva, II B.Tech. IT

Completed

Ms Kiruthikassre, II B.Tech. IT Mr Pagalavan M, II B.Tech. IT Ms Kaviya A, II B.Tech. IT Mr Ritam Bhukta B, II B.Tech. IT Ms Jenisha J, II B.Tech. IT Ms Karunya V, II B.Tech. IT





















INFORMATION TECHNOLOGY



CERTIFICATION

Ms Nivedhitha J, Student of II B.Tech. IT, completed a course on "Python for Data Science" during January-February 2024.



























ACHIEVEMENT

A product patent filed by the Department of Mechanical Engineering with institution name as applicant on "Designing Helmet by Attaching Gadgets for Enhancing Safety for Rider and Pillion Rider" has been granted. Filed by:

Department of Mechanical Engineering

- 1. Mr K SenthilKumar/AP
- 2.Mr K Mohan/AP

Department of Electrical and Electronics Engineering

1.Mr P Leninpugalhanthi/AP



FACULTY ACHIEVEMENT

























ACHIEVEMENT

Dr R B Jeen Robert, Professor, published an article in the Journal of the Chinese Institute of Engineers (Taylor & Francis), SCIE/WoS Indexed (Q2). with an Impact Factor of 1.1.



Cutting-edge tool wear monitoring in AISI4140 steel hard turning using least square-support vector machine

Rajeev D*, AjithaPriyadarsini Sb, Jeen Robert RBs and Senthil Maharaj Kennedy

"Department of Mechanical Engineering, MarEphraem College of Engineering and Technology, Marthandam, India; "Department of Electrical and Electronics Engineering, Narayanaguru College of Engineering and Technology, Manjalumoodu, India; "Department of Mechanical Engineering, St Krishna College of Technology, Coimbatore, India; "Department of Mechanical Engineering, AAA College of Engineering and Technology, Sirakasi India

ABSTRACT

This research addresses the critical challenge of tool wear monitoring in AlSI4140 steel hard turning through the innovative application of a Least Square-Support Vector Machine (LS-SVM) prediction model. While acknowledging the growing significance of hard turning over conventional grinding techniques, the background also recognizes the challenges posed by accelerated tool wear and decreased productivity. The main goal is to create a reliable tool wear prediction model that is tailored to harsh turning circumstances. Material selection, cutting force measurement, acceleration measurement, and accurate tool wear measurement are all included in the experimental procedures. Using time and frequency domain analyses, the research methodically examines how cutting force and acceleration affect old wear. For feature selection, non-linear regression is used to determine which parameters have the greatest influence on wear. A comprehensive training and validation procedure, structural clarification, and a detailed mathematical foundation are used in the development of the LS-SVM-based tool wear prediction model. The presentation of the findings and related discussions explores the impact of acceleration and cutting force on wear. The LS-SVM model's successful application for precise tool wear prediction in AlSi4140 steel hard turning is highlighted in the conclusions, demonstrating the model's potential to improve tool lifespan and manufacturing efficiency.

ARTICLE HISTORY Received 31 August 2023 Accepted 22 March 2024

CO EDITOR-IN-CHIEF

ASSOCIATE EDITOR

KEYWORDS Hard turning; least square-support vector machine; cutting force; acceleration, tool wear

Hard turning is carried out under fine depth of cut and small feed of hard steels having hardness more than 45HRC (Elsadek et al. 2020). It is seen as an alternative for traditional grinding in finishing operation and has emerged as a new technology in machining with time and cost efficiency (Aouici et al. 2012; Das, Dhupal, and Kumar 2015). The advantages over traditional grinding include better material removal rate, less work cycle time, absence of harmful cutting fluids, both hard and soft turning can be done in the same machine etc (Asiltürk and Akkuş 2011; Aslan 2005), Expensive Cubic Boron Nitride (CBN) and ceramic tools are used for hard turning. Many experiments were conducted to prove the effectiveness of coated carbide tool in hard turning (Bartarya and Choudhury 2012; Suresh, Basavarajappa, and Samuel 2012). However, higher wear rate associated with hard turning is seen as one among the main problems influencing its application in industries. The economic viability of hard turning is affected by the equipment down time, due to tool change and poor surface quality associated with tool wear (Duc et al. 2020; Khan et al. 2022). It is estimated that the tool failure contributes to 20% of down time and the budget for tool replacements ounts to 3-12% of total development cost (Rizal et al. 2013). Therefore, progress of cutting tool right from the sensors, as the abundance of information available is more

initial stage of cutting process is required to prevent such a failure. Recently many authors have carried out researches in tool condition monitoring (TCM) process (Chen et al. 2017; Kelmers et al. 2022; Kumar and Shelare 2019; Singh et al. 2019). TCM may include direct and indirect methods. Direct methods, even though accurate are not suited for online implementation, while the indirect methods using sensor technology are widely used. The step involved in the TCM using indirect methods are feature extraction, feature selection and model development for the wear (Dinakaran, Sampathkumar, and Sivashanmugam 2009). The sensor signals widely used for feature extraction are vibration, current, cutting force, power, torque, and acoustic emission. Cutting force sensed by dynamometer is regarded one of the vital factors for predicting tool wear (Pal et al. 2011). The tool wear causes increase in friction, which in turn increases the static and dynamic components of cutting force. Another prominent feature used in TCM is the amplitude of vibration signal. Many authors have used vibration signal for wear prediction (Dimla and Lister 2000a; Siddhpura and Paurobally 2012). It is measured by accelerometer. The information from one signal is inadequate to estimate the occurrence of tool wear, due to its complex phenomenon. It will be better to employ multiple

CONTACT Jeen Robert RB 🧔 jeenrobert.rbs/skct.edu.in 🕥 Department of Mechanical Engineering, Sri Krishna College of Technology, Colmbatore, Tamilnadu

FACULTY ACHIEVEMENT

























CERTIFICATION



Energy Resources, Economics and Sustainability



Elite Gold and Topper in 5%:

Dr F Paul Gregory/AP

Elite Silver:

Dr S Arivazhagan/AP Mr K Senthil Kumar/AP

FACULTY CERTIFICATION

























CERTIFICATION



Dr R B Jeen Robert, Professor, completed NPTEL online Certification Course on "Manufacturing Process Technology I & II" with 60% and Elite.



NPTEL Online Certification



This certificate is awarded to JEEN ROBERT R B

for successfully completing the course

Manufacturing Process Technology - I & II

with a consolidated score of

Online Assignments | 19.38/25 | Proctored Exam | 40.73/75

Total number of candidates certified in this course: 666



Prof. B. V. Ratish Kumar Chairman, Centre for Continuing Education IIT Kanpur

Jan-Apr 2024

(12 week course)



Indian Institute of Technology Kanpur

Roll No: NPTEL24ME48S1062800344

To verify the certificate



No. of credits recommended: 3 or 4

FACULTY CERTIFICATION























CERTIFICATIONS

Mr Viswa M, Student of II B.E. Mechanical Engineering, completed the NPTEL online certification course on **"Advanced Machining Processes"** with **46%.**

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
VISWA M

for successfully completing the course

Advanced Machining Processes

with a consolidated score of 46

Online Assignments 14.44/25 Proctored Exam 31.69/75

Total number of candidates certified in this course: 640

Find B. V. Ratia Kumar

Clumba Complete Course (12 week course)

Find B. V. Ratia Kumar

Clumba Complete Course (12 week course)

Find B. V. Ratia Kumar

Clumba Complete Course (12 week course)

Find B. V. Ratia Kumar

Clumba Complete Course (12 week course)

No. of credits recommended: 3 or 4

STUDENT CERTIFICATION

Mr Dhesihan A, Student of II B.E. Mechanical Engineering, completed the NPTEL online certification course on **"Advanced Machining Processes"** with **41%.**



STUDENT CERTIFICATION

























CERTIFICATIONS



Energy Resources, Economics and Sustainability

Elite Gold:

Mr Sridharan S

Elite Silver:

Mr Vishal Kumar S Mr Yuvraj B V

Elite:

Mr Saikrishna G D Mr Sanjay R

Completed:

Mr Aravind Akash A Ms Thulasi V

STUDENTS CERTIFICATION

























PARTICIPATIONS

Mr Surya Prasath V and Mr Infant Jevin S, Students of Mechanical Engineering, participated in a Technical Quiz at KGISL Institute of Technology, Coimbatore and Mr Infant Jevin S, secured the First Place in online quiz event.



STUDENTS PARTICIPATION

EVENT

The Department of Mechanical Engineering organised an Expert Talk on "Innovation and Advancement in Green Energy." Dr F Paul Gregory/AP served as the Resource Person.



EVENT ORGANISED



















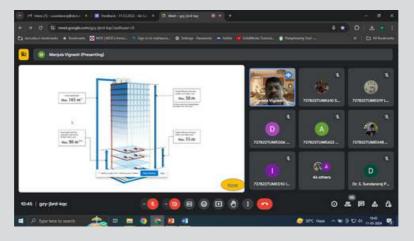


MECHANICAL



EVENTS

The SKCT ISHRAE Student Chapter organised an Expert Talk on "Basics of Air Conditioning and VRF Technology." Mr. Vignesh Senapathy, Manager, Mitsubishi Electric India Pvt. Ltd. Coimbatore, served as the Resource Person.



EVENT ORGANISED

The Department of Mechanical Engineering with IIC organised an Expert Talk on "The Role of Intellectual Property Rights in Frontiers of Research and Development." Dr S Sundararaj, IIC Ambassador, Professor, served as the Resource Person.



EVENT ORGANISED





















MECHANICAL



EVENT

Dr N Mohanraj/ASP & **Dr T Nithyanandhan/AP**, visited Heron Technology, Coimbatore.



INDUSTRY VISIT



The Research Review Meeting was organised for Ph.D pursuing Members of Faculty.

REVIEW MEETING





















MECHANICAL



EVENT

The Department of Mechanical Engineering organised a seminar on "Pioneering Progress: Innovation in Smart foundries Shaping the Future." Mr P Sureshkumar, Chief Executive Officer ANGNA Inc., Coimbatore, served as the Resource Person.



EVENT ORGANISED

Mr Surendhar A, Mr Srihari S, Mr Sai Krishna G D, Mr Naveen Muthukrishnan R, Mr Lokeesh B and Mr Deelipraj D, Students of Second B.E. Mechanical Engineering, attended a technical workshop on "MASTER CAM with CNC" at Pump Technovation India Pvt. Ltd., Coimbatore.



STUDENTS PARTICIPATION























MECHANICAL



EVENT

The Department of Mechanical Engineering organised a Guest lecture on "Applications of GD&T in Production and Additive Manufacturing" Mr R Santhosh Kumar, Head-Techno commercial, My skills Academy, Coimbatore, served as the Resource Person.























SKCT DIGEST



SCHOOL OF MANAGEMENT



PLACEMENT

The Students of the Batch 2022-2024 bagged the placement offer from **City Union Bank** for the position of **Relationship Manager II Grade** with the CTC of **504000**.



Mr Sri Harish K



Mr Aswin D



Mr Simrith Kamal



Mr Rishi Ajithesh R



Mr Rahulraja R

Mr Mohamed Areez, Student of the Batch 2022-2024, bagged the placement offer from M/s Luker Electric Technologies for the position of Sales Officer with CTC of 4LPA.

PLACEMENT DETAILS

























ACHIEVEMENT

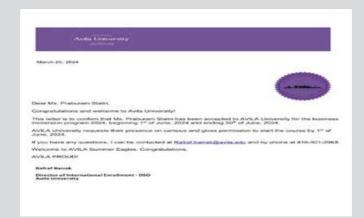
Ms Tharshini, Student of I MBA, received an award sponsored by Madurai Kamaraj University and Muvaar Thamil Sangam and Tamil Cultural Club. She received this for her excellence in participating various Tamil debate programme for the past 4 years and promoting Tamil language spirits in various districts. She received this award from the hand of Lt. Dr P Karpagavalli Udumalai in name of her excellence in police department and records, also she was invited as a Chief Guest for this award programme. Main reason for giving this award was for "Her excellence in participating Tamil debate and promoting Tamil language towards various places."



STUDENT ACHIEVEMENT

Mr Prabhu Ram, Student of I MBA, bagged the opportunity to participate in the Business Immersion Programme at Avila University, USA.





STUDENT ACHIEVEMENT























CERTIFICATION





Al in Marketing

ELITE

SANTHANALAKSHMI G

KEERTHI SURESH

DHARANI R

RAKSHITH K

SANJITH. D

VARSHINI S

ABHINANDANA B

ARUN KUMAR M

KAVIN KUMAR

NARAYANAN R

NARTHIKA R

RAJKANESVAR

SAIPRAKASH T

SHOBIKA

B SUBASH

SUBIKSHA L

VARUNITHA B

TAMILSELVAN R

COMPLETED

BALAJI AV

KAVYA L

KISHOR KUMAR A

RISHI AJITHESH R

SANTHIYA.S

SRI HARISH K

VARSHINI S

AJEETH KUMAR TJ

AJITH C

AKSHAYA B

ALAGAMMAI C

A ARUN

BARATH R R

BHARATHI

GIDEON JONES

HEMA RUSHMIYA K

HEMA VARDHINI S S

JAGADEESH M

JABA NIBISHA P

NAVIN M S

RADHA A

SANJAY KUMAR DN

SANTHOSH

SOUNDARIYA SELVI M

SAHIL B PARIKH

SUBIN N

MUKILAN N

PRANAV S

SAFEELA NASREEN

SANTHOSH R























CERTIFICATION

Investment Risk Management

COMPLETED

ARUN A I MBA ABHISHEK V I MBA AJAYKUMAR PIMBA

AKSHAYA B I MBA DEEPAK V I MBA

DINESH R I MBA

GOPINATH M I MBA

HARI KISHORE J I MBA

HARISH M I MBA

HEMA VARDHINI S S I MBA

NIBISHA P I MBA

JABEEN S I MBA

KAVIN KUMAR U I MBA

KEERTHANA VIMBA

KISHORE S I MBA

MAHESH P I MBA

MANI SANKAR P I MBA

MANIKANDAN M I MBA

MOHAN KUMAR D I MBA

NAVEEN KUMAR S I MBA

NAVEENRA LI MBA

BALAKRISHNAN S I MBA

SANJAY KUMAR D N I MBA

SANJAY A I MBA

SANTHOSH R I MBA

SANTHOSH S I MBA

SRI MEENAKSHI P I MBA

SUBASH B I MBA

SUBIKSHA L I MBA

SUJITHA M I MBA

VARUNITHA B I MBA

coursera

Introdunction to AI

COMPLETED

AJEETH KUMAR T I MBA LIBARAN N I MBA SHAJITH AHAMED N I MBA THARUN KUMAAR SIMBA

Buisness Analysis and Process management

COMPLETED

GOPINATH M I MBA MAHESH P I MBA NARTHIKA R I MBA NAVEERNA LIMBA SANTHOSH S I MBA SRI MEENAKSHI P I MBA SUBIKSHA L I MBA SUBIN N I MBA SANTHOSH R I MBA

Foundations of Digital Marketing and E-commerce by Google

COMPLETED

JEEVANANTHU P I MBA KISHORE S I MBA SHAJITH AHAMED I MBA SUBIN N I MBA VARUN KUMAR P I MBA

STUDENTS ONLINE CERTIFICATION























CERTIFICATIONS

coursera

Other Courses

RADHA A I MBA AJITH C I MBA **AKASH JIMBA** ALAGAMMAI C I MBA AMAL PAULY ALUKKAL I MBA ARCHANA M I MBA ARUN J I MBA **RUBINI S I MBA** JAGADEESH M I MBA JAROSH KARTHIK I MBA JAYASURIYA V I MBA KEERTHI S I MBA PRANAV S I MBA SAFEELA NASREEN I MBA SAI PRAKASH T I MBA SANJIL AHMED S I MBA SANTHANALAKSHMI G I MBA SARAN SIMBA SARANYA A I MBA SOUNDARIYA SELVI M I MBA SUJITHA M I MBA TAMILSELVAN R I MBA

THARSHINI S I MBA

TOTAL OF

102

COURSEIC

CERTIFICATIONS



















CERTIFICATIONS

Mr Harimuthiah S, Student of III MBA, completed the NPTEL course on "Investment Management."



STUDENT CERTIFICATION

Ms Nikhila, Student of II MBA completed the NPTEL course on "Advances in Strategic Human Resource Management."

















SKCT DIGEST

SCHOOL OF MANAGEMENT



CERTIFICATIONS

Ms Praveena K, Student of II MBA, completed the NPTEL course on "Advances in strategic Human Resource Management."



STUDENT CERTIFICATION

Ms Archana M, Student of I MBA, completed the NPTEL course on "Business Analytics for Management Decision."





















CERTIFICATIONS

Mr Arun Kumar, Student of I MBA, completed the NPTEL course on "Leadership and Team Effectiveness."



STUDENT CERTIFICATION

Ms Nivedha C, Student of I MBA, completed the NPTEL course on "Talent Acquisition and Management."





















CERTIFICATIONS

Mr Sanjay A, Student of I MBA, completed the NPTEL course on "Business Analytics for Management Decision."



STUDENT CERTIFICATION

Ms Naveenra, Students of I MBA, completed the NPTEL Course on "Financial Management for Managers."



















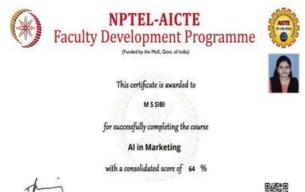






CERTIFICATIONS

Dr M S Sibi/AP completed 12-week Faculty Development Programme on "AI in Marketing."



Mr K Srinivasan/AP completed 12-week Faculty Development Programme on "Al in Marketing."



Mr S Siva/AP completed 12-week Faculty Development Programme on "Al in Marketing."



FACULTY CERTIFICATIONS

























PUBLICATION

Dr M S Sibi/AP published a research article on "Investing the Relationship between Student Motivation and Academic Performance" in "Educational Administration: Theory and Practice,30(5)." Scopushttps://doi.org/10.53555/kuey.v30i5.3327

Educational Administration: Theory and Practice

2024, 30(5), 2713-2727 ISSN: 2148-2403

https://knex.net/ Research Article



Investigating The Relationship Between Student Motivation And Academic Performance

Dr. K.A.Arokiaraji*, Dr. K. Prakash*, Dr. M.S. Sibi*, Dr. R. Tamilselvi*, Dr. R. Shanmugapriya*, Dr. M. Sadik Ali*

Citation: Dr. K.A.Arokiaruj,et al. (2024), Investigating The Relationship Between Student Motivation And Academic Performance, Educational Administration: Theory and Practice, 30(5), 2713-2727 Doi: 10.53555/kney.v3015.3327

ARTICLE INFO

ABSTRACT

FACULTY PUBLICATION





[&]quot;Assistant Professor, Department of Management Studies, St. Joseph's College of Engineering, Semmencherri, OMR, Chennai, Tamilnadu, India.

^{*}Post Doctoral Fellow (RUSA 2.0), Department of Business Administration, Annamalai University, Annamalai Nagar, Chidambaram, Tamilnada, India.

Assistant Professor, School of Management, Sri Krishna College of Technology, Coimbatore, Tamilnadu, India.

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[&]quot;Assistant Professor, Department of Business Administration, The New College, Chennai, Tamilnadu, India.



















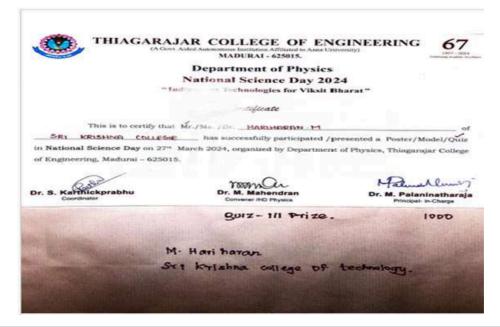


CERTIFICATION

Mr Hariharan M, Student of First B.E. ECE, secured the Second Place with a cash prize of Rs. 2000/- in an event on Video Quiz Masters organised as a part of the the "National Science Day- Viksit Bharat" - NSD-2024 by Thiagaraja College of Engineering, Madurai on 27 March 2024.







STUDENT ACHIEVEMENT



















SKCT DIGEST



SCIENCE AND HUMANITIES



CERTIFICATION

Ms Vishnu Priya G, Student of First B.Tech. IT C Section, achieved the ELITE + GOLD status in the NPTEL exam and emerged as the top 5% performer in the cohort.



STUDENT ACHIEVEMENT



Swetha, Student of First Ms B.Tech. IT C Section, attended an Linguathon'24 event on at College Kumaraguru of Technology, Coimbatore on 03 May 2024.

STUDENT NPTEL CERTIFICATION



















SKCT DIGEST



SCIENCE AND HUMANITIES





PUBLICATION

Dr N Nalini/AP published a book chapter on "Innovative Nanosensors for Detection of Dyes," in the book on "Nanotechnology-based Sensors for Detection of Environmental Pollution" by Elsevier Science on 20 May 2024.



Abstrac

This chapter will be dedicated to explain different dyes that are concerning materiansmitted pollutants as how they can be detected using mission bindings based viework. Advantageous characteristic, limitation and future prospects for this type of detection will be addressed.

Krywords Dye; nanotechnologi-hased sensors; environmental pollutaris; detection; ano dye; andra unisuse dres; triphens/inethase dye; nanoporticle; tunn sensors; real-time monitoring

FACULTY ACHIEVEMENT



The Department of Science and Humanities organised an **online Guest Lecture** on "Innovations in Robotics and Automation" on 17

May 2024.

























PUBLICATION

Dr R Thilagavathy/AP published an article on "Process of becoming the "SELF" in Walker Percy's the last Gentleman" in Rabindra Bharati Journal of Philosophy, an UGC approved Journal with an impact factor of 3.08.

RABINDRA BHARATI JOURNAL OF PHILOSOPHY ISSN: 0973-0087

PROCESS OF BECOMING THE 'SELF' IN WALKER PERCY'S THE LAST GENTLEMAN

Dr.Thilagavathy R, Assistant Professor, Department of English Sri Krishna College of Technology, Kovaipudhur, Coimbatore 641042 Mail-id thilagavathy.r@skct.edu.in

Abstract

Existentialism is a philosophical movement which arose during the war periods of the twentieth century that addressed the issues of human existence including anxiety, alienation, life, death, and free will. The nineteenth century Danish philosopher, Soren Kierkegaard who is considered as the father of existentialism has contributed significantly to this philosophy even before it could germinate. This paper is an attempt to analyse the protagonist of Walker Percy's second novel *The Last Gentleman* in the light of Kierkegaard's theory of three stages of existence. The current study aims to show how the protagonist Williston Barrette explores his existential quest by passing through the aesthetic, ethical and religious stages of life to construct his identity. The novel revolves around a twenty five year old Southern gentleman Williston Barrette who is on a search for meaning in life and how his association with the Vaught family helps him to find his real 'Self'.

Key Words: Existentialism- Soren Kierkegaard - Three Stages of Existence- Walker Percy- Aesthetic stage-Ethical Stage- Religious Stage- Construction of the 'Self'

Existentialism is a twentieth century philosophical movement which was born amidst the chaos of the World Wars. It gained momentum during the post war periods, when the people were caught between uncertainty and poverty, struggling to find the purpose of their birth and living. During the twentieth century, people could associate their confusions and sufferings with the ideologies of the existential movement, leading to a large following in a short span of time. It emphasized the subjective reality of individual existence, freedom and choices which were some of the dilemmas people had in mind. Followers of this movement felt that humans possessed free will in this meaningless world, and were constantly on a mission to find answers for their purpose of existence through the choices they make in life.

The history of the Existential philosophy can be traced from the times of Socrates and St.Augustine, who stressed on the importance of 'Self and Existence'. Then again during the nineteenth century, the philosophical ideas of the Danish philosopher Soren Kierkegaard strongly reflected the existential ideologies even before the movement could originate. Later during the twentieth century many philosophers became

Vol: XXIV No.: 3. 2024

127

FACULTY PUBLICATION























CERTIFICATIONS

Dr B Kogilavani/AP completed Coursera courses in May 2024.





Dr R Thilagavathy and Ms S Vishnupriya, Asst. Professors attended Seven-day Virtual FDP on "Effectiveness of Eco-literature in Education" organised during 22-30 April 2024.





FACULTY ACHIEVEMENTS























CERTIFICATION

Dr B Kogilavani Assistant Professor Department of Science and Humanities completed coursera courses in the month of May 2024.







FACULTY PARTICIPATION

























EVENT

The Department of Science and Humanities in association with SAHA organised an Alumni Talk on "Embracing Change and Impermanence of Life" at ES seminar Hall on 29 April 2024.

































EVENT

The Department of Science and Humanities in association with **SAHA** organised a Guest Lecture on "**Design your Destiny**" at ES seminar Hall on 27 April 2024.

































EVENT

The Department of Science and Humanities in association with **the Mozhi Club** organised a Guest Lecture on **"Importance of Communication"** at PG Seminar Hall on 26 April 2024.









FACULTY ACHEIVEMENT























The Department of Science and Humanities in association with SAHA organised a Guest Lecture on "Balancing a Bytes and Bliss: Integrating Tech and Nature for Teen Health" through online mode on 21 May 2024.



























The Department of Science and Humanities organised an online Technical Talk on "Recent Innovations in Energy Storage Devices" on 18 May 2024.























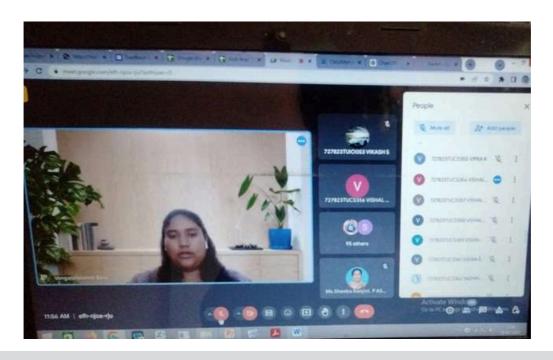






The Department of Science and Humanities in association with **SAHA** organised an Alumni Talk on **"The Power of Small Wins"** on 17 May 2024.





























EVENT

The Department of Science and Humanities in association with SAHA organised a Guest Lecture on "Converse to Connect: Enhancing Life Skills through Communication" on 08 May 2024.

Department of Science and Humanities Organises

A GUEST LECTURE

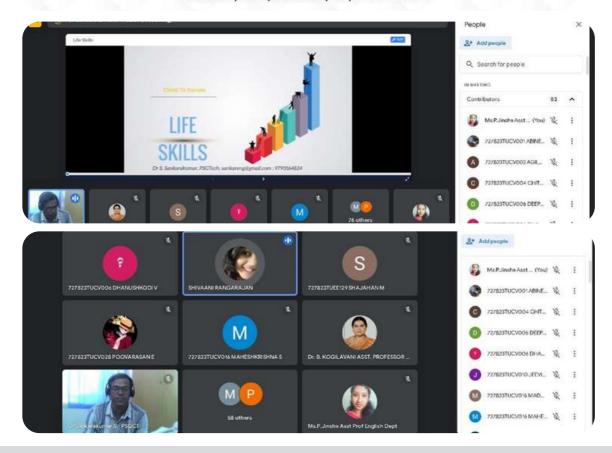
on

Converse to Connect: Enhancing Life Skills through Communication



Resource Person
Dr. S. Sankara Kumar
Assistant Professor/ English
PSG College of Technology, Coimbatore

08.05.2024 | 03.30 p.m. to 4.30 p.m. | Virtual Platform





















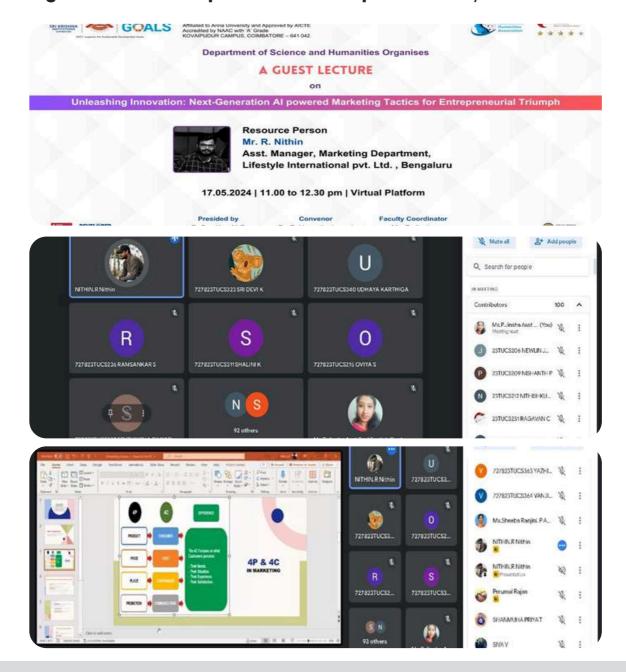






EVENT

The Department of Science and Humanities in association with IIC organised an Expert Talk on "Unleashing Innovation: Next generation AI Powered Marketing Tactics for Entrepreneurial Triumph" on 17 May 2024.



























EVENT

The Department of Science and Humanities in association with IIC organised an online webinar on "Building Bridges: Entrepreneurial Mindset for Successful Accomplishments" on 08 May 2024.

Department of Science and Humanities Organises

A GUEST LECTURE

on

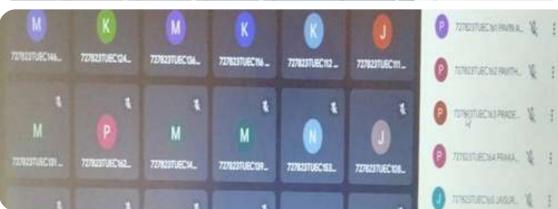
Building Bridges: Entrepreneurial Mindset for Successful Accomplishments



Resource Person
Ms. Ponmalar Vidhyasagar
HR in Ad Astra consultants Pvt Ltd, Bangalore.
Team and Branch Head of Coimbatore.

08.05.2024 | 02.15 to 03.15 p.m. | Virtual Platform























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