

SRI KRISHNA COLLEGE OF TECHNOLOGY



A
YEAR
JOURNEY
MILESTONES
ACHIEVEMENTS



NEW



happy
Pongal

SKCT DIGEST
JAN EDITION
VOL '23 - ISSUE 01



CONTENTS

ACHIEVEMENTS

PLACEMENTS

ADS & CSE

CIVIL

ECE

EEE

ICE

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MBA

S&H

FACULTY MDP

PONGAL CELEBRATIONS

REPUBLIC DAY



A C H I E V E M E N T S



*STUDENT
ACHIEVEMENTS*

Selected
for the
final round

Congratulations!

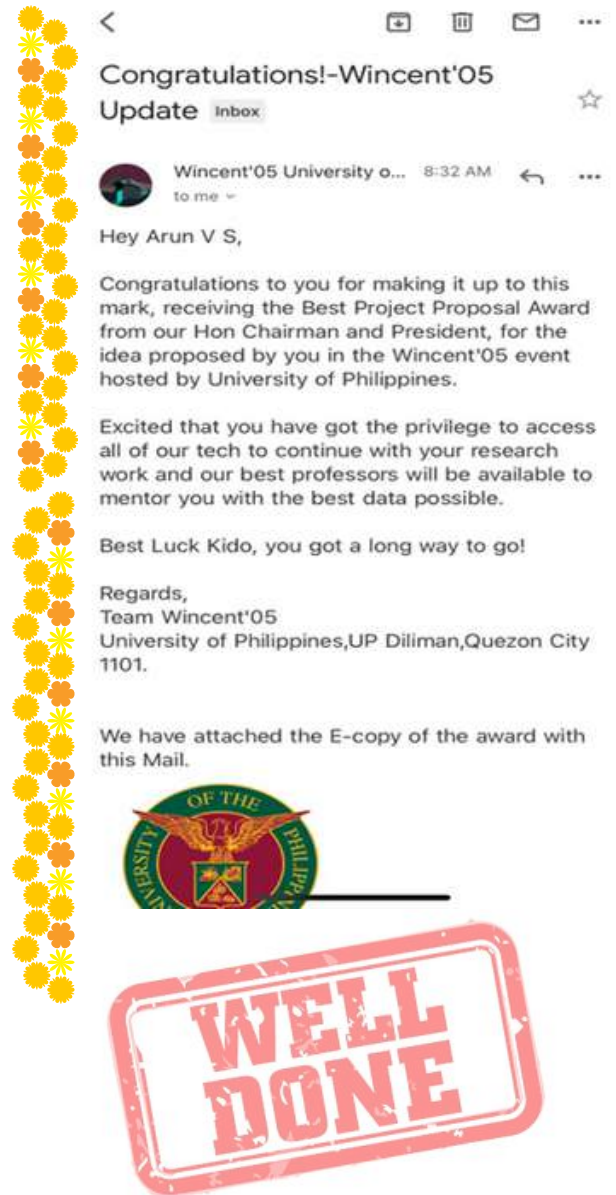


CYBER HACKATHON ON CCTV FOOTAGE
ANALYTICS

MOHAMED HAARIS M A
MOHAN GIRESH
II CSE B



STUDENT ACHIEVEMENTS



BEST PROJECT PROPOSAL AWARD UNIVERSITY OF PHILLIPPINES

ARUN V S
II CSE A



STUDENT
ACHIEVEMENTS

3RD PLACE IN
START UP TN
HACKATHON-
2023



Mr Shri Vignesh S
Mr Vimal Shankar A R
Mr Sachin Vipu M D
Mr Sukhesh Kumar
Mr Vishal
Ist Year IT



FACULTY
ACHIEVEMENTS



FACULTY ACHIEVEMENTS



NOVEL RESEARCH ACADEMY

NATIONAL FACULTY AWARD 2022-2023

NOVEL RESEARCH ACADEMY

Poducherry, India

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Certificate of Merit



This is to certify that
Dr. K. SRINIVASAN
Associate professor, Department of ECE
Sri Krishna College of Technology, Coimbatore
has been honoured with

DISTINGUISHED PROFESSOR AWARD

From the Academy for his academic contribution in Science and Technology under the category of "Electronics and Communication Engineering" specialization having been adjudicated during the academic year 2022-2023 by Novel Research Academy, Poducherry, India. The academy congratulates him for the outstanding academic achievements and wishes that he gets many more laurels in the years to come and contribute towards promotion of higher education in India.

Date & Place: 07th January 2023, Poducherry, India



Dr. D. Mohandass
Dr. D. Mohandass, M.Sc. (A) (Awards)
Young Scientist (Awards) (Awards)
Assistant Professor (Awards)
Founder & Director
Novel Research Academy

Verify at <http://www.novelry.com/0112780/certificate/42302023>



PLACEMENTS

You did it!
Congratulations

KVB



Mr ARSH S - MBA



Ms AARTHI A -MBA



Mr KABILESH J - MBA



Ms MOWSHMI N - MBA



PLACEMENTS



Ms RUMPA BERA - MBA



Ms SHOBIKA M - MBA



Ms SONA S - MBA



You did it!
Congratulations



PLACEMENTS



Mr DHARANASH S -ECE



Ms SWETHA P -ECE

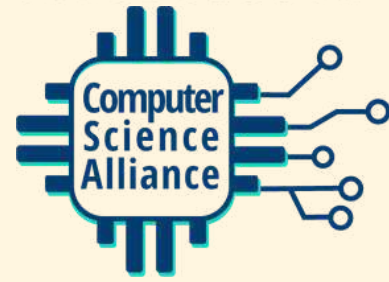
Congratulations



PLACEMENT TRAINING



ADS & CSE



Courtesy
Ms Shruthi M S



EVENTS ORGANIZED

IDEATHON FINALE



EVENTS ORGANIZED

Guest Lecture on “Awareness on Intellectual Property Rights”



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Konespudur, Coimbatore - 641042

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
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In Association with Centre for Research and Development
&
Institution Innovation Council

Organizes a Guest Lecture on
Awareness on Intellectual Property Rights

Resource Person
Shri. G.Sai Vaibhav
Examiner of Patents and Designs
Nipam Officer (Group 'A' Gazette)
Intellectual Property Office, Chennai.

Coordinator Ms. Viraga Ravi APICSE	Convener Dr. R Vidhya Head/CSE	CRD Head Dr. S Sundaramraj Professor/Mech	Dean - Academics Dr. P Manju
---	---	--	--




EVENTS ORGANIZED

Data Privacy Week - Awareness on Data Privacy through Technical Quiz, Slogan Writing and Poster Design Contest



SRINIVASA COLLEGE OF TECHNOLOGY
FOCUS INSTITUTION | ACCREDITED BY NAAC WITH 'A' GRADE

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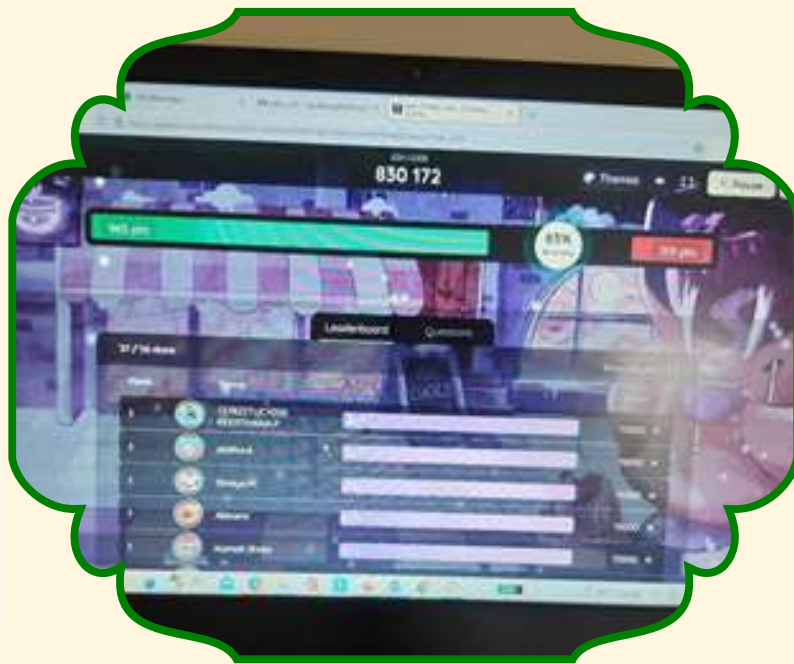
DATA PRIVACY WEEK | 

24 to 28 JANUARY 2023

Event	Date	Coordinator
EVENTICA Technical Quiz Poster Design Slogan Writing	24.01.2023	Ms. G. Sandhya, AP/CSE Ms. M.J. Sruthi, AP/CSE
Cyber Meet Data Privacy Management in Social Media	25.01.2023	Mr. T. Raghunathan Asst. Professor CSE, SKCT
Handson Session Bug Bounty Recon	27.01.2023	Mr. A. Ajay Balaji, Senior Security Researcher, LTI Mindtree
Session on Cyber Crime Preventions	28.01.2023	Mr. S. P.T. Dharma Manohar Co-Founder & Chief Operating Officer, Sovereign Cyber Security Services.

FACULTY COORDINATOR
Ms. G. Sandhya, AP/CSE
Ms. M.J. Sruthi, AP/CSE

STUDENT COORDINATORS
Maadesh kumar G
Rahul P
Kirthika Subbiah P



EVENTS ORGANIZED

A session on Cyber Meet
on Data Privacy
Management in Social
Media

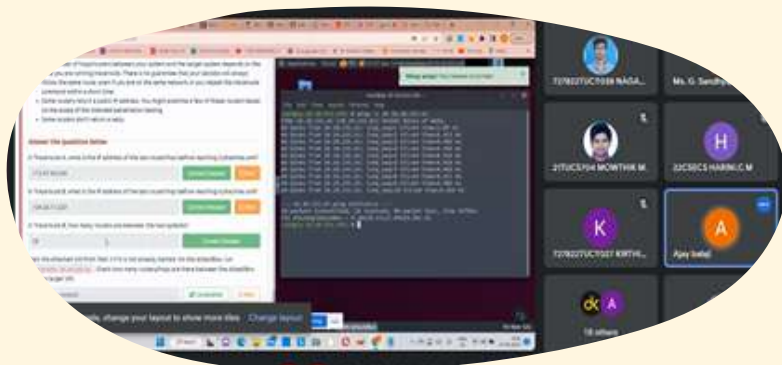


Data
Privacy
Week

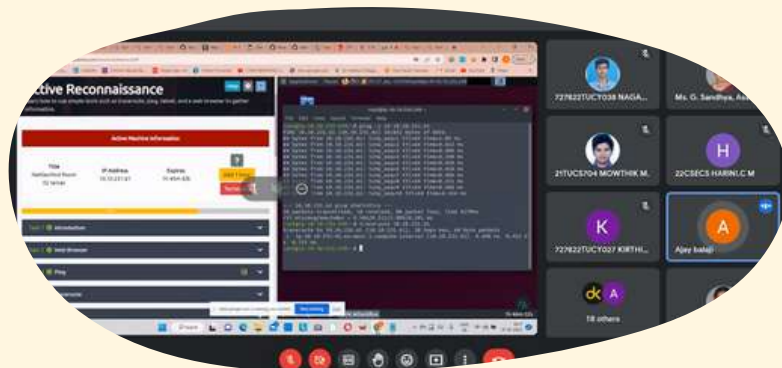


EVENTS ORGANIZED

A Lecture on Cyber Crime Preventions was handled by Mr. S. P. T. Ghana Manoharan, Co-Founder & COO, BoredMonk Cyber Security Services.



A Virtual Handson session on Bug Bounty Recon



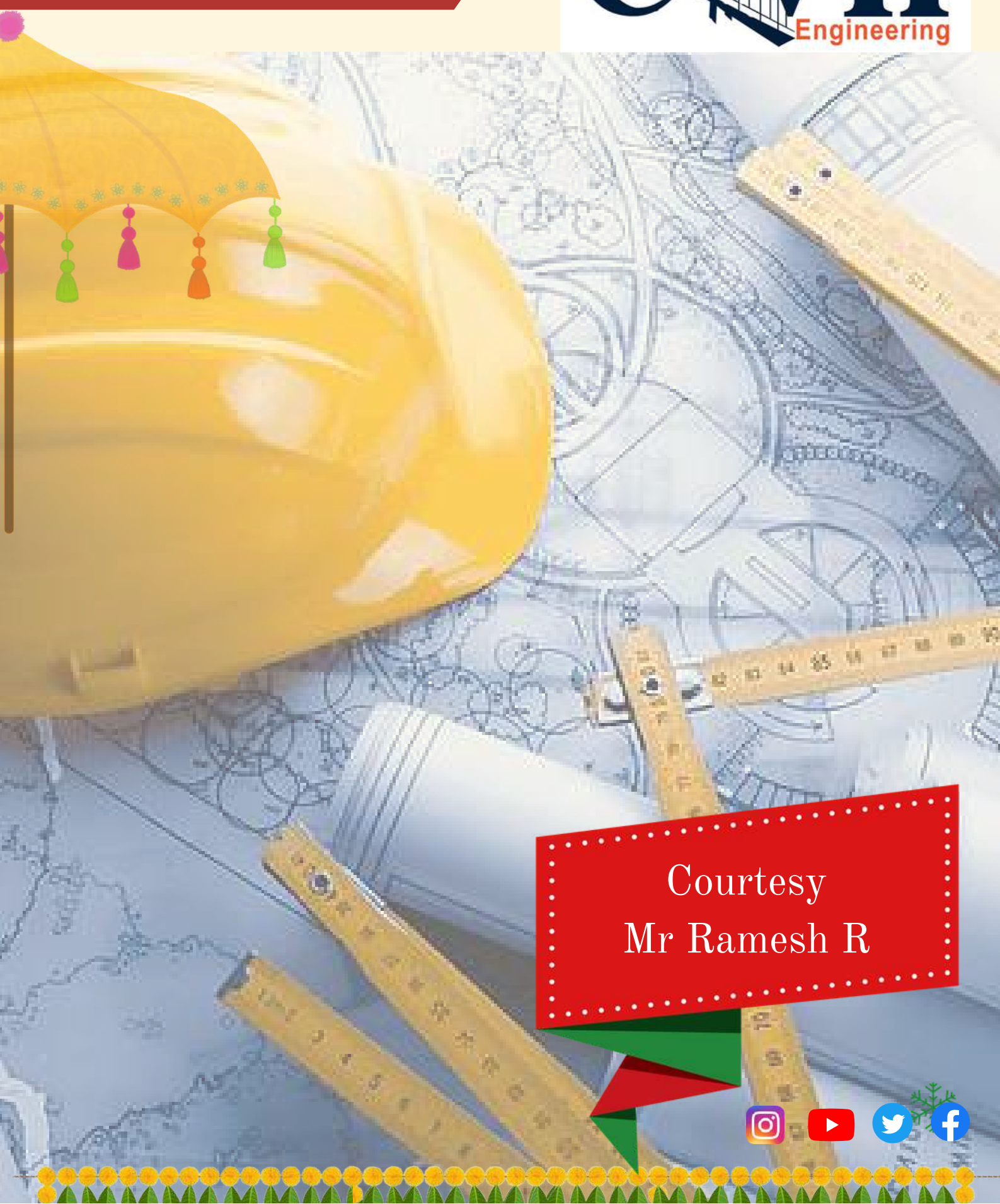
JANUARY 24 - 28 IS
**DATA
PRIVACY
WEEK**



FACULTY PARTICIPATION & CERTIFICATIONS



CIVIL



Courtesy
Mr Ramesh R



STUDENTS' PARTICIPATION

Students Hands on experiential learning to staff quarters site



FACULTY PARTICIPATION & CERTIFICATIONS



CERTIFICATE

OF APPRECIATION

is awarded to

V SATHISH KUMAR

SRI KRISHNA COLLEGE OF TECHNOLOGY

COIMBATORE, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

STRENGTH OF MATERIALS

JUL - DEC 2022

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
			<40	40-59	60-74	75-89	>=90
5	1	1	0	0	0	0	0



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Green Homes - A Way of Life



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Date of Completion

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TO

Dr. V. Sreevidya

For generously sharing valuable time, effectively contributing knowledge and professional expertise, as a guest speaker for the APJAKTU Sponsored Faculty Development Program titled

"Sustainable Materials in Civil Engineering"

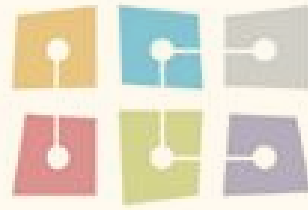
on
24 January, 2023

Organized by Department of Civil Engineering, Ahalia School of Engineering & Technology, Palakkad



FACULTY INDUSTRY CONNECT

Dr V Sathish Kumar Assistant Professor attended Industrial training at
M/s Britto Associates Coimbatore

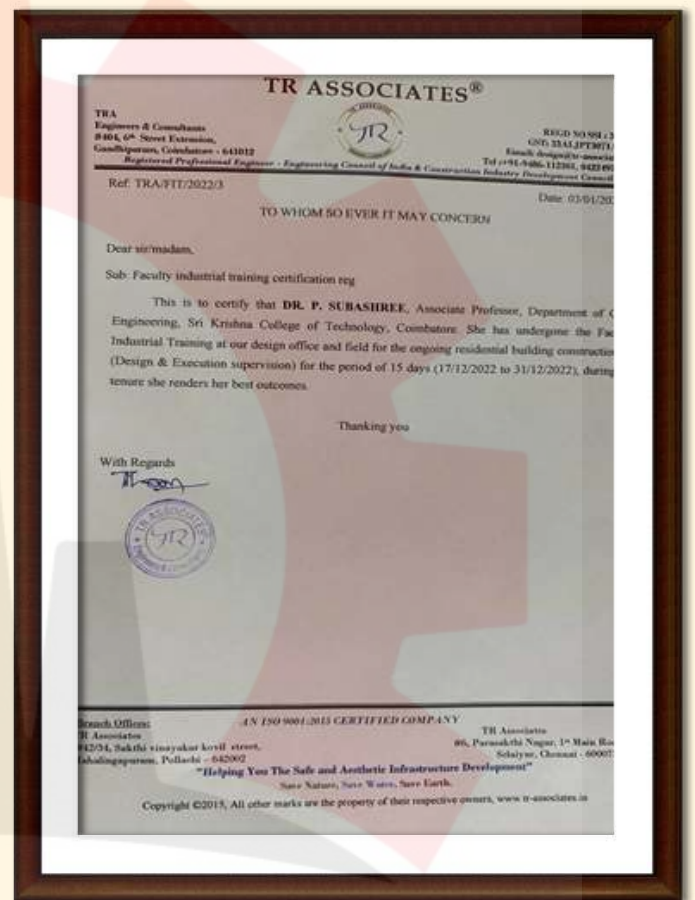


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CONNECT**
Connect to your Future



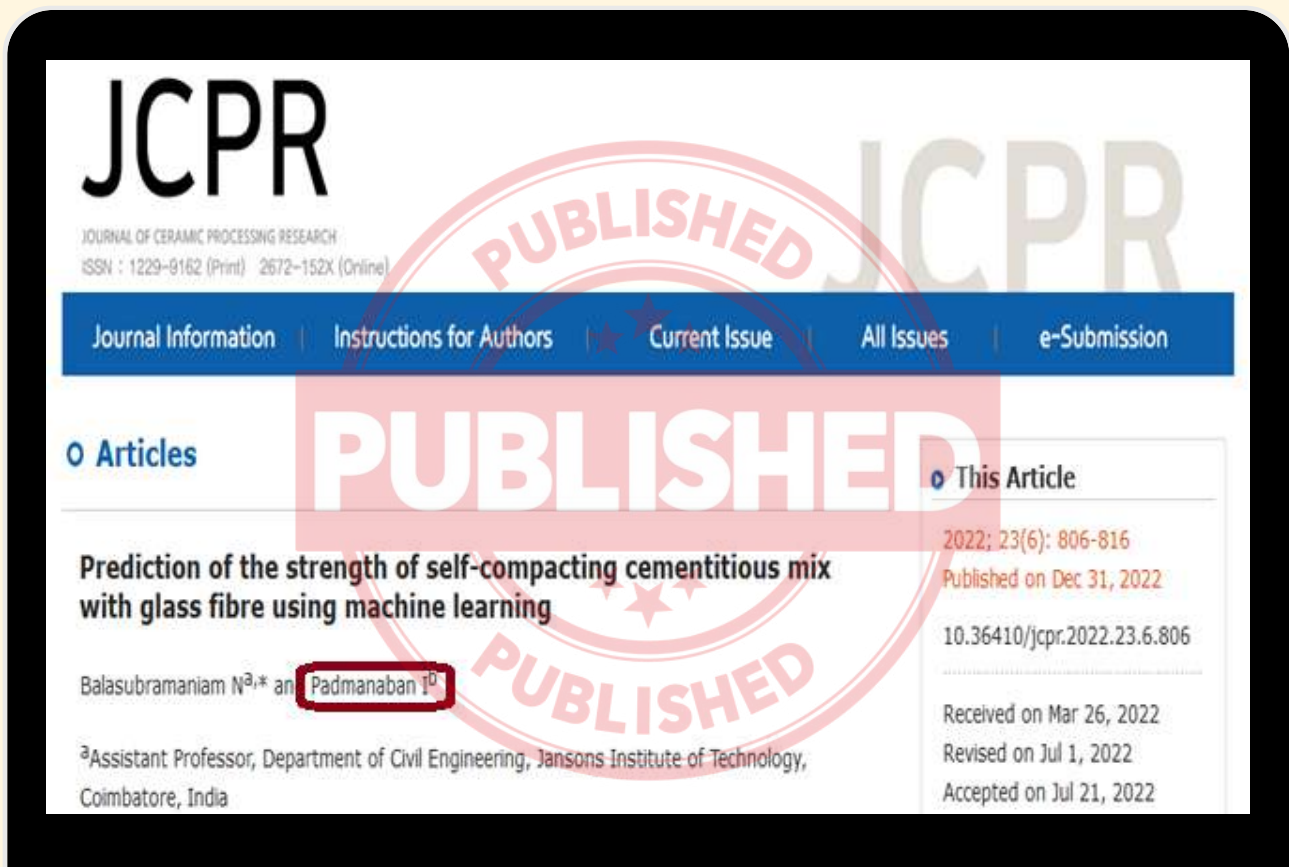
FACULTY INDUSTRY CONNECT

Dr P Subashree Associate Professor attended Industrial training at M/s TR Associates Coimbatore



PUBLICATIONS

Dr I Padmanaban Professor and Head, had published a paper in JCPR a Scopus Indexed Journal.



Publications



EVENT ORGANIZED

DEPARTMENT OF CIVIL ENGINEERING
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in association with
INSTITUTION'S INNOVATION COUNCIL
University of JSS Institute

Cordially invites you to join a webinar on
AUTOMATED MACHINE LEARNING IN CIVIL ENGINEERING

RESOURCE PERSON
Mr. A.M. GOVIND KUMAR
Director
SeaportAI

DATE: 27-01-2023
TIME: 11 AM
Venue: CIVIL CAD LAB

APPLICATIONS OF ARTIFICIAL INTELLIGENCE

AI computers thinking at a level of human beings reasoning and thinking that there yet so called as Artificial General Intelligence (AGI) and Artificial Super Intelligence (ASI).

AI solve problems by detecting useful patterns in the dominant mode of AI today.

Govind Kumar is presenting

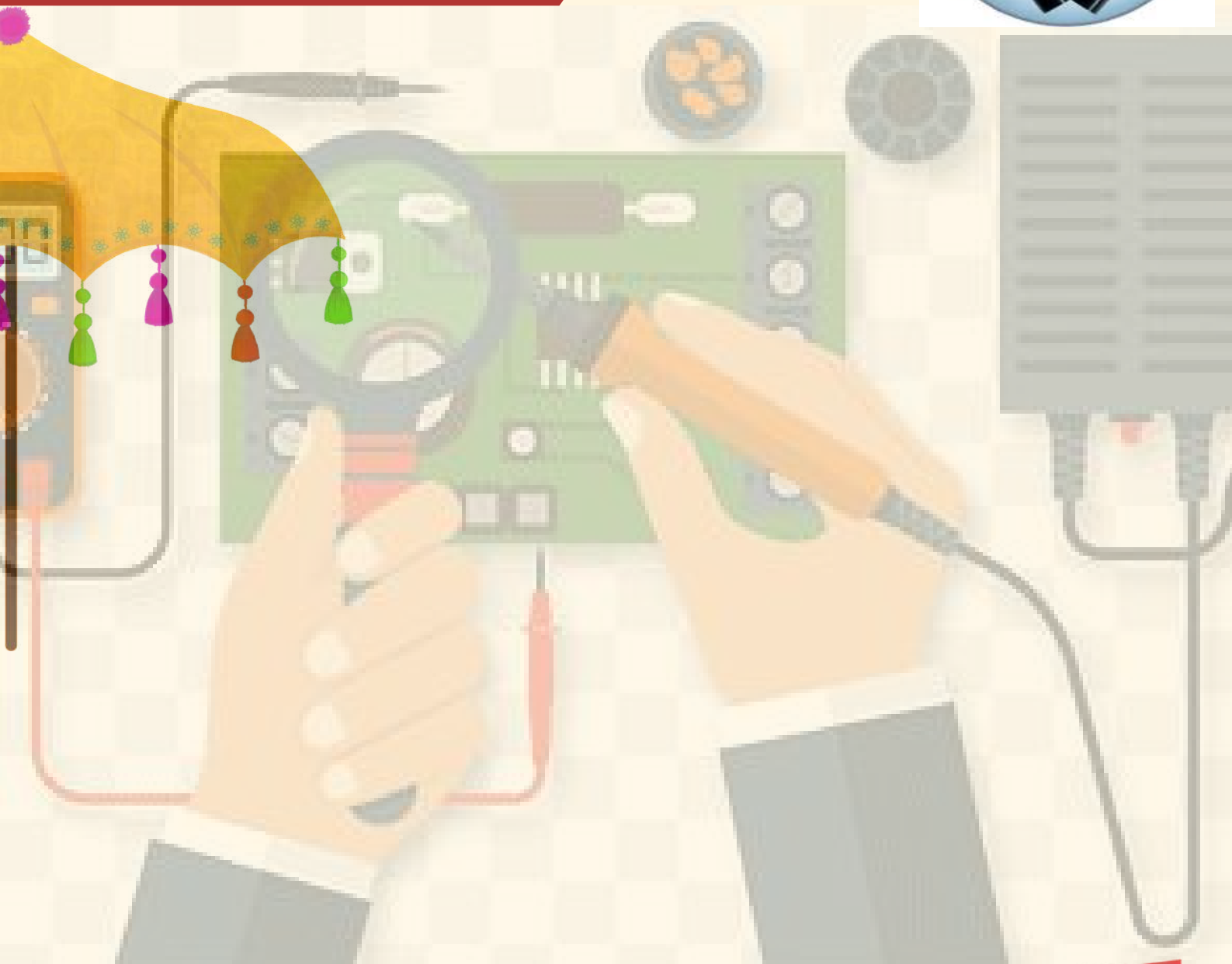
Govind Kumar is presenting

Govind Kumar is presenting

WEBINAR 



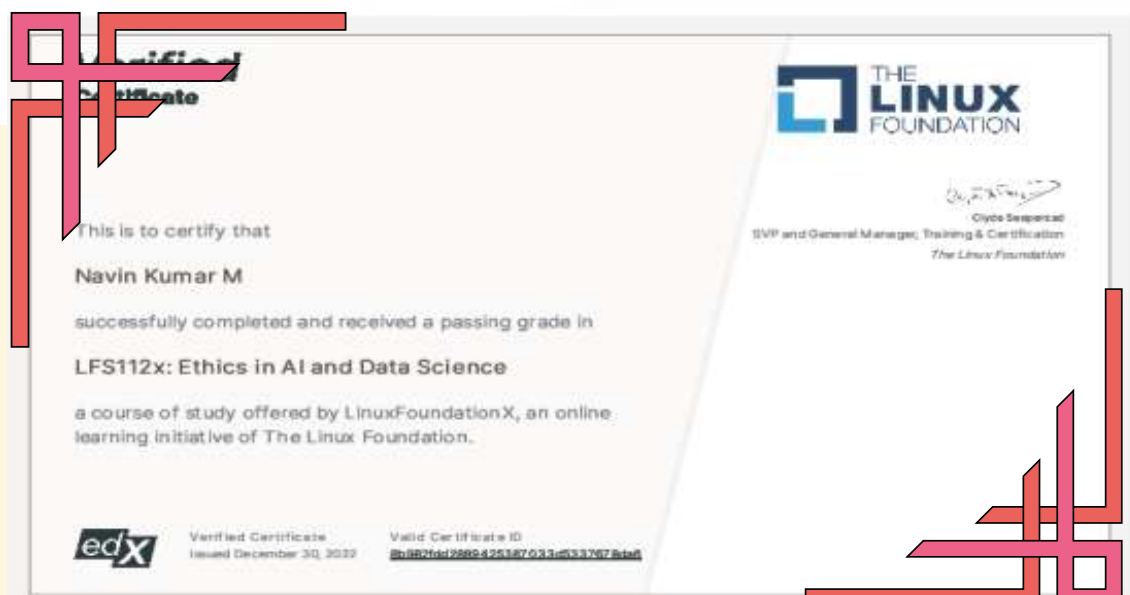
ECE



Courtesy
Ms Priyatharishini M



FACULTY PARTICIPATION & CERTIFICATIONS



FACULTY PARTICIPATION & CERTIFICATIONS



FACULTY PARTICIPATION & CERTIFICATIONS



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms/Dr. M. THILLAI RANI
Assistant Professor of Sri Krishna College of Technology has

participated in 3 days National level Faculty Development Program on **Research Challenges in Artificial Intelligence and Robotics** conducted by Department of Electronics and Communication Engineering and Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore from 27.12.2022 to 29.12.2022.

Certificate No. SK_RCAI_009

S. San
HOD/ECE

K. S. S.
HOD/EEE

J. H. J.
Principal



NPTEL

CERTIFICATE OF APPRECIATION



Is awarded to

M. THILLAI RANI

of

SRI KRISHNA COLLEGE OF TECHNOLOGY

COIMBATORE, TAMIL NADU

for his/her instrumental role as SPOC for the SWAYAM-NPTEL Local Chapter.
Thank you for being NPTEL's brand ambassador at your esteemed institution.

ACTIVE
SPOC

JUL - DEC 2022

Active SPOC based on Performance & Participation of
Candidates for the Jul - Dec 2022 semester

Prof. Andrew Thangaraj
PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras



FACULTY PARTICIPATION & CERTIFICATIONS



FACULTY PARTICIPATION & CERTIFICATIONS



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
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CERTIFICATE OF PARTICIPATION

PRESENTED TO

MR. NAVIN KUMAR M,
SRI KRISHNA COLLEGE OF TECHNOLOGY

for participating in the Guest Lecture on "Conversion of Innovative Projects to Patents"
organized by the Department of Electronics and Communication Engineering in
association with the Institution's Innovation Council,
Sri Krishna College of Technology, Coimbatore on November 18, 2022.



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CERTIFICATE OF PARTICIPATION

PRESENTED TO

MS.YAMINI SHANMUGAM ,
SRI KRISHNA COLLEGE OF TECHNOLOGY

for participating in the Guest Lecture on "Conversion of Innovative Projects to Patents"
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association with the Institution's Innovation Council,
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PRESENTED BY



DATE: 18.11.2022

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
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CERTIFICATE OF PARTICIPATION

PRESENTED TO

MR. SANTHAKUMAR G,
SRI KRISHNA COLLEGE OF TECHNOLOGY

for participating in the Guest Lecture on "Conversion of Innovative Projects to Patents"
organized by the Department of Electronics and Communication Engineering in
association with the Institution's Innovation Council,
Sri Krishna College of Technology, Coimbatore on November 18, 2022.



DATE: 18.11.2022

CONVENER



FACULTY PARTICIPATION & CERTIFICATIONS

SPOTLIGHT LECTURE SERIES



FACULTY PARTICIPATION & CERTIFICATIONS



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PRESENTED TO

**MS.B.VIDHYA,
SRI KRISHNA COLLEGE OF TECHNOLOGY**

for participating in the Guest Lecture on "Conversion of Innovative Projects to Patents"
organized by the Department of Electronics and Communication Engineering in
association with the Institution's Innovation Council,
Sri Krishna College of Technology, Coimbatore on November 18, 2022.

DATE: 18.11.2022

CONVENER

LECTURE SERIES



CERTIFICATE OF COMPLETION

This is to certify that

Santhakumar G

has completed

Digital Predistortion of Wireless Transmitters Using Machine Learning

10 January 2023

1 Professional Development Hours

Robert M. Ward,
IEEE Vice President, Educational Activities

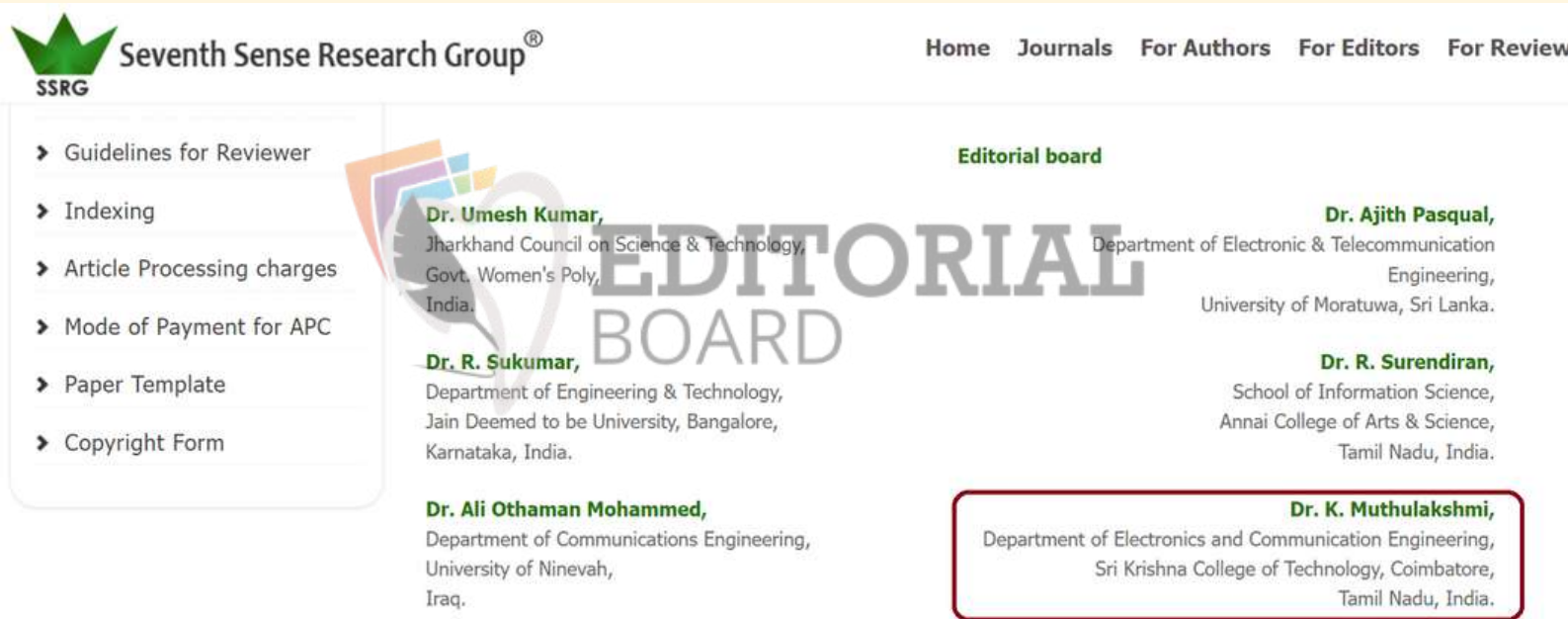


PDH
IEEE CONTINUING EDUCATION
New York State Sponsor Number 117
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FACULTY PARTICIPATION & CERTIFICATIONS

Editorial board Member in SSRG International Journal of Electronics and
Communication Engineering (IJECE)



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Jharkhand Council on Science & Technology,
Govt. Women's Poly,
India.

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Department of Engineering & Technology,
Jain Deemed to be University, Bangalore,
Karnataka, India.

Dr. Ali Othaman Mohammed,
Department of Communications Engineering,
University of Ninevah,
Iraq.

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Department of Electronic & Telecommunication
Engineering,
University of Moratuwa, Sri Lanka.

Dr. R. Surendiran,
School of Information Science,
Annai College of Arts & Science,
Tamil Nadu, India.

Dr. K. Muthulakshmi,
Department of Electronics and Communication Engineering,
Sri Krishna College of Technology, Coimbatore,
Tamil Nadu, India.



Editorial Board



EEE



Courtesy
Ms Sukanya G



FACULTY PARTICIPATION & CERTIFICATIONS

Mr T Bharaniprakash, Assistant Professor Department of EEE, delivered a Webinar Session on “Human Values & Entrepreneurship Ethics”

SL.MOTHER THERESA ENGINEERING COLLEGE
VAGAIKULAM, TROOTHUKUDI - 625 102

ARIIA
ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD, Government of India)

www.mtec.ac.in follow us on /SMTENGG 7373751368 / 9597393474

WEBINAR ON
HUMAN VALUES AND ENTREPRENEURSHIP ETHICS

06 | JAN | 2023
06.30 PM - 07.30 PM

RESOURCE PERSON
Mr.T.Bharani Prakash
Assistant Professor/ EEE
Sri Krishna College of Technology Coimbatore

LIVE STREAMING THROUGH GOOGLE MEET

CONVENERS
Mr.J.Reegan, HoD/ECE | Mr.D.Justin Livingston, President, IIC | Dr.J.Jasper Gnana Chandran, Principal | Prof.A.George Klinton, Director

Organised by
Department Of Electronics and Communication Engineering
In Association with
Entrepreneurship Development Cell

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Highest Star Status by the MoE, Govt. of India
for Innovation and Entrepreneurship Activities



You're presenting to everyone Presentation audio Stop presenting

HUMAN VALUES & ENTREPRENEURSHIP ETHICS
T.BHARANI PRAKASH
ASSISTANT PROFESSOR/EEE
SRI KRISHNA COLLEGE OF TECHNOLOGY

FATHIMA SHURTHI M
37 others
You

People: PARAMASIVAM M22ECRO..., Persis, pradeep josebert, SANKARESHWARI A., SIVAPOORANI M22ECRO12, Sneha S, SNOWFFI J SNOWFFI J, Stephi Graph G

6:36 PM | qbh-gsfs-sri



FACULTY PARTICIPATION & CERTIFICATIONS

Mr T Bharaniprakash, Assistant Professor Department of EEE, delivered a Webinar Session on “Human Values & Entrepreneurship Ethics”




FACULTY PARTICIPATION & CERTIFICATIONS



This is to certify that

Ms.G.Sukanya

of

Sri Krishna College of Technology , Tamil Nadu

has undergone Innovation Ambassador (IA) training 'Foundation Level' (Total 15 Sessions of 30 contact hours) conducted in online mode by MoE's innovation Cell & AICTE during the IIC calendar year 2021-22.

Abhay Jere

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell

Dipan Sahu

Mr. Dipan Sahu
Assistant Innovation Director
MoE's Innovation Cell

Date of Issue: 02-01-2023

E-certificate No: IA/Foundation/1022073

IIC ID: IC201811141

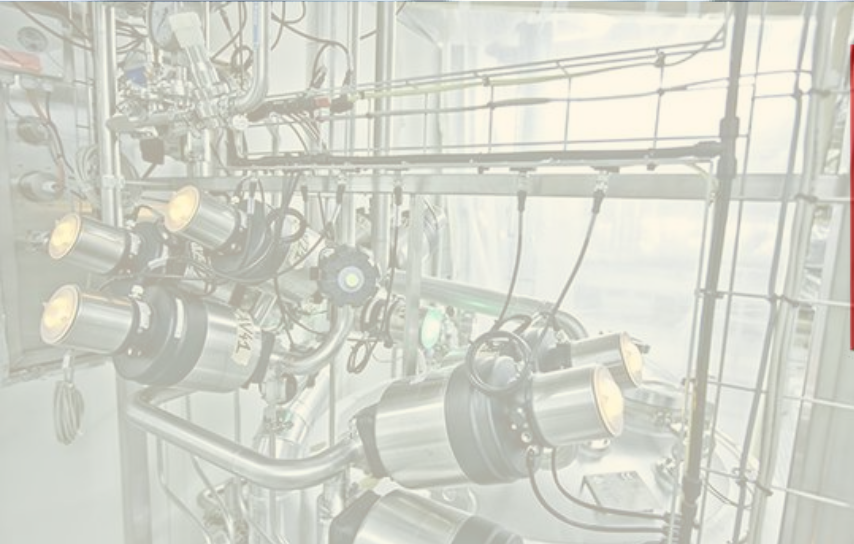


INNOVATION AMBASSADORS



ICE

Instrumentation & Control



Courtesy
Mr Ajith B Singh



STUDENTS' PARTICIPATION



DEPARTMENT OF
**INSTRUMENTATION
AND
CONTROL ENGINEERING**
Organizes
**MAKE SOME NOISE
WITH US**

DATE
28/01/2023

EVENTS
Dumbshra
Dialogue Tr



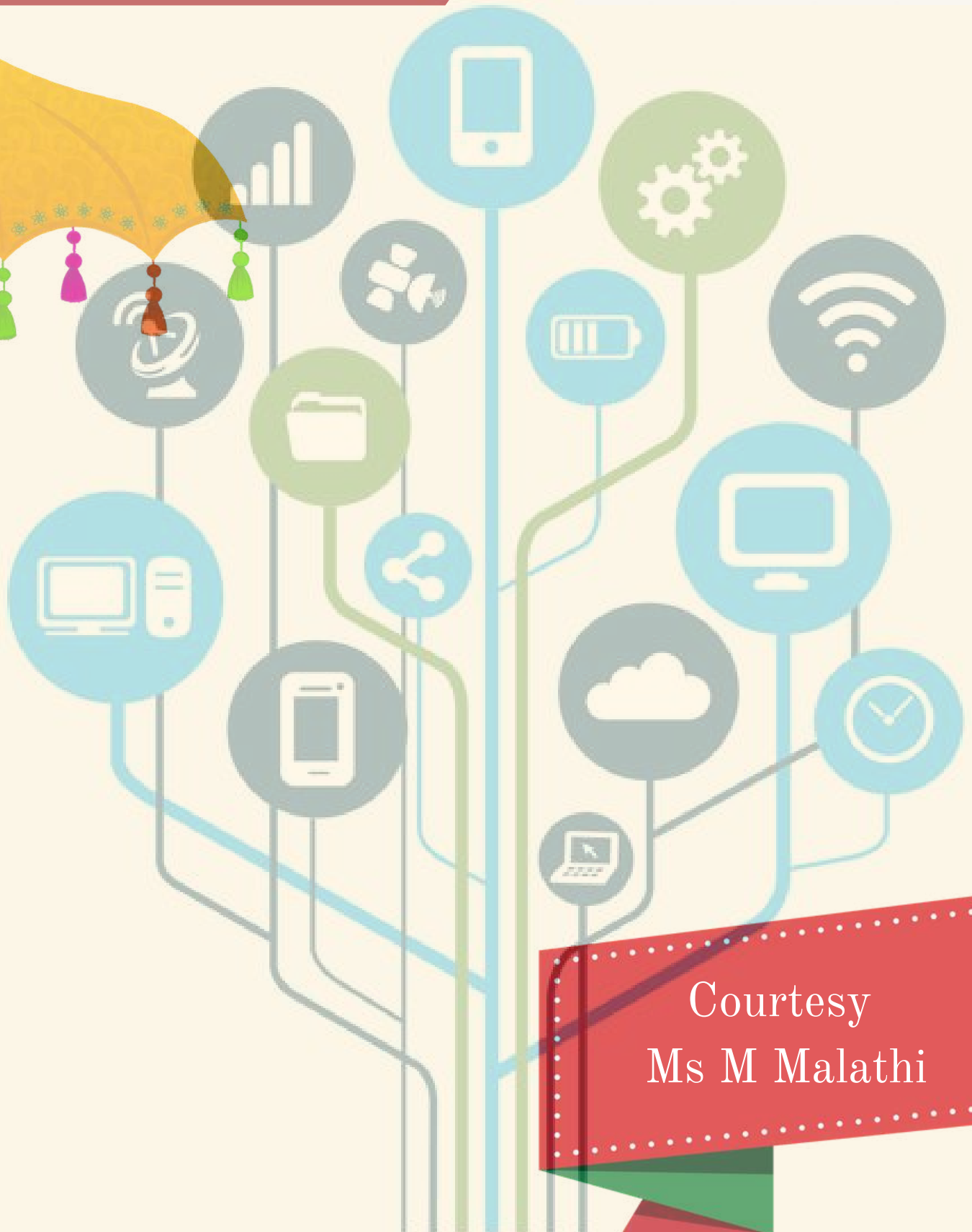
INDUSTRIAL CONNECT

Industrial Visit to Tamilnadu Agricultural University



IT

INFORMATION
TECHNOLOGY



Courtesy
Ms M Malathi



PUBLICATIONS

Mr. A.SureshKumar Asst. Professor has successfully published a journal in Informatica (SCI indexed journal).

<https://doi.org/10.31449/inf.v46i4.3535>

Informatica 46 (2022) 481-492 481

A Novel Group Mobility Model for Software Defined Future Mobile Networks

A. Sureshkumar¹, D.Surendran²

¹Assistant Professor, Department of Information Technology, Sri Krishna College of Technology, Coimbatore, Tamilnadu, India.

E-mail: a.sureshkumar@skct.edu.in

²Professor, Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu, India.

Keywords: Group mobility management (GMM), Software defined network (SDN), Future Mobile Networks, MoMo model, handover.

Received: May 11, 2021

Nowadays, a massive amount of data is generated to cause network traffic and inflexible mobility in future mobile networks. A new Group Mobility Model (GMM) named MoMo is introduced that addresses the issue of the aforementioned problems. Even though, software defined network (SDN) is functional with network-rooted mobility protocols that enhance the network efficiency. Some existing network-rooted mobility administration methods still undergo handover delay, packet loss, and high signaling cost through handover process. Here, the MoMo model is proposed. The MoMo model is designed to decide the obtainable mobility management (MN) and their preeminence. The MoMo model is associated with all association. The MoMo model demonstrates that the proposed MoMo model is better than the conventional handover process and further technique by handover latency, signaling cost, network throughput, and packet loss.

Povzetek: Predstavljamo je nov sistem MoMo, ki rešuje probleme mobilnosti grup v mobilnih omrežjih.

1 Introduction

According to the statistics of mobile technology, an extensive increase has been made in the past 20 years and it is continued drastically in the near future [1]. Nowadays, the mobile communication network handles immense amount of data which leads to cause network traffic. Thus the network uses advanced

SDN's physical network is being reduced to generate high Quality of Service (QoS).

Ultra-dense network, a dense coverage model which supports high bandwidth in future mobile network (5G/6G) [4-6]. However, the dense network is not suitably able to perform the handover process using the conventional mobility model. Thus, the network is



FACULTY PARTICIPATION & CERTIFICATION



FACULTY PARTICIPATION & CERTIFICATION



Wipro - TalentNext - Wipro
Certified Faculty [WCF] - Results -
Sri Krishna College Of Technology
- S.Madumidha External Inbox

Talent Next Yesterday
to me, placement@skcet.ac.in

Dear Prof S.Madumidha ,

Thanks a lot for investing your valuable time for taking up the
TalentNext Wipro Certified Faculty Assessment.

Below is the result of the **TalentNext WCF** Assessment conducted on
23-Jan [Monday].

Professor Name	College Name	MCQ (30)	Logic Prog LP1 (40)	Logic Prog LP2 (40)	Best of 2 LP (40)	Mini Proj CPC (30)	Total Score %	RESULT
S.Madumidha	Sri Krishna College Of Technology	17	40	0	40	30	87	Cleared

Remarks: We are glad to declare that you have successfully cleared the
"WIPRO Certified Faculty" Assessment. **CONGRATULATIONS!!**

You will get the WCF certificate by this week.



EVENTS ORGANIZED



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Department of Information Technology
&
Institution's Innovation Council (IIC)



Cordially invites you for the Session on
JOURNEY TO SUCCESS AS A FRONT END DEVELOPER

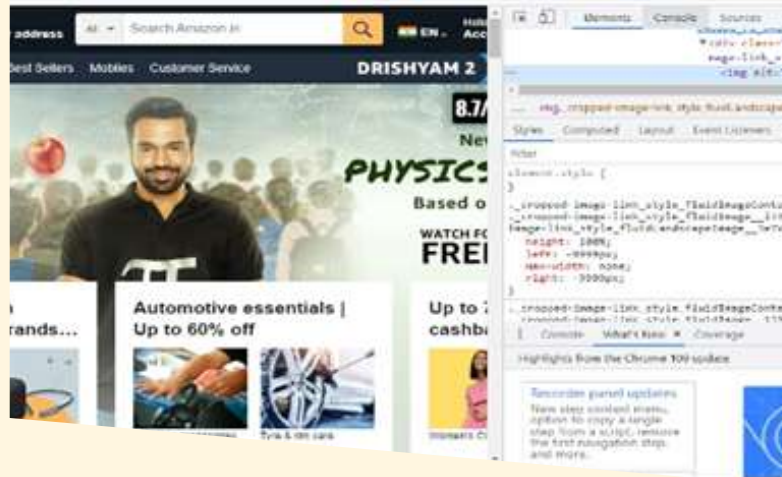
Resource Person

Mr. Kevin Jacob S,
Software Engineer-Frontend developer,
Sirius computer solutions, Chennai.

2023 at 2.30pm



Convener: Dr.S.Siamala Devi, Head of the Department /IT,SKCT
Coordinators : Ms.K.Mythili, Ms.S.Muthulakshmi, Assistant Professor/IT,SKCT



EVENTS ORGANIZED

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DEPARTMENT OF INFORMATION TECHNOLOGY
&
INSTITUTION INNOVATION COUNCIL

jointly organizes

**WORKSHOP ON
'ENTREPRENEURSHIP AND
SKILL DEVELOPMENT'**

RESOURCE PERSON
Mr.Prashanth Ganesh
Chief Operations Officer-PreSkala
Founder- Athleap Foundation
Motivational Speaker-Believe Inc.

Jan 28th, 2023
9.30 AM - 4.30 PM
PG SEMINAR HALL

Dr. R.Suganya ,AP/IT
Mrs.P.Alaguvathana,AP/IT
Coordinator

Dr. S.Siamala Devi
HOD / IT

Dr. P.Manju
Dean Academics &
Student Affairs



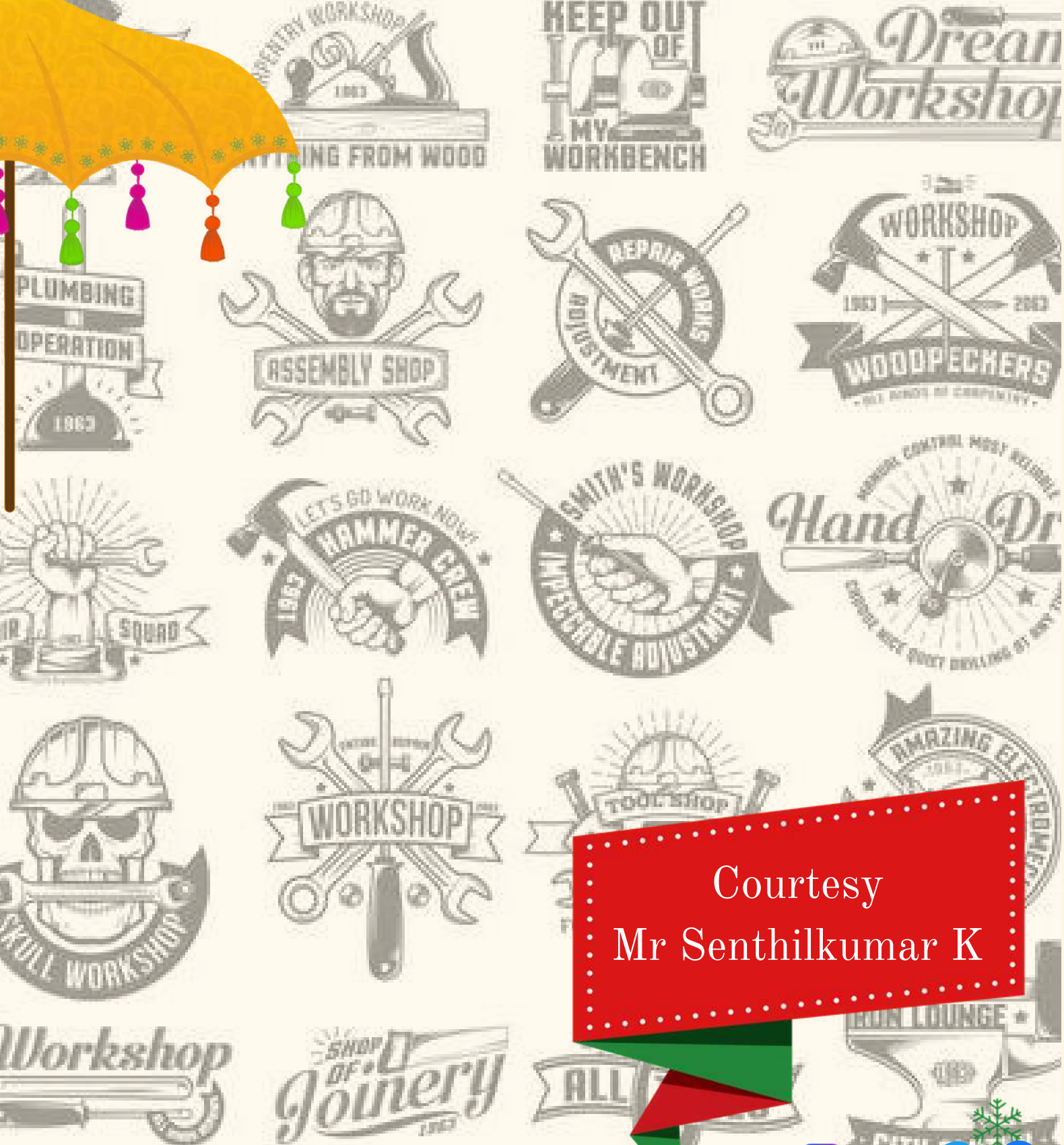
TRAINING GOAL IDEA SKILLS

WORKSHOP

TEAM PRACTICE RESULTS TREND



MECH



Courtesy
Mr Senthilkumar K



STUDENTS' PARTICIPATION



A AUTOCAD



BOARD OF STUDIES MEETING

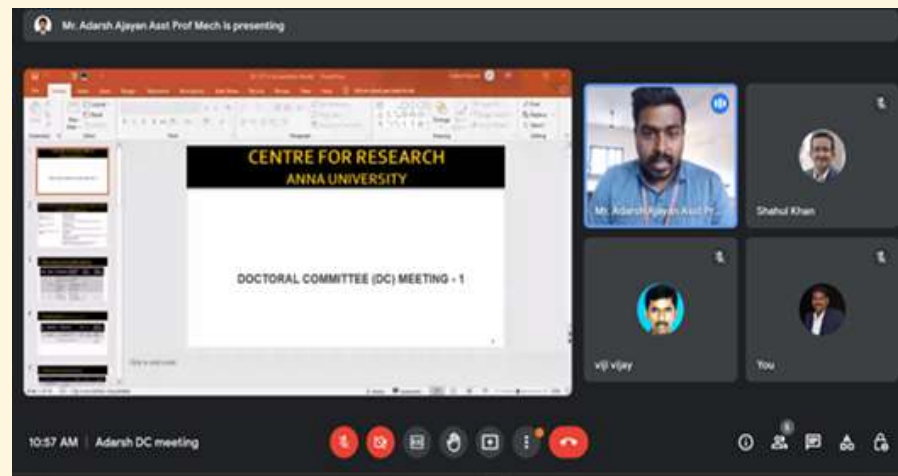
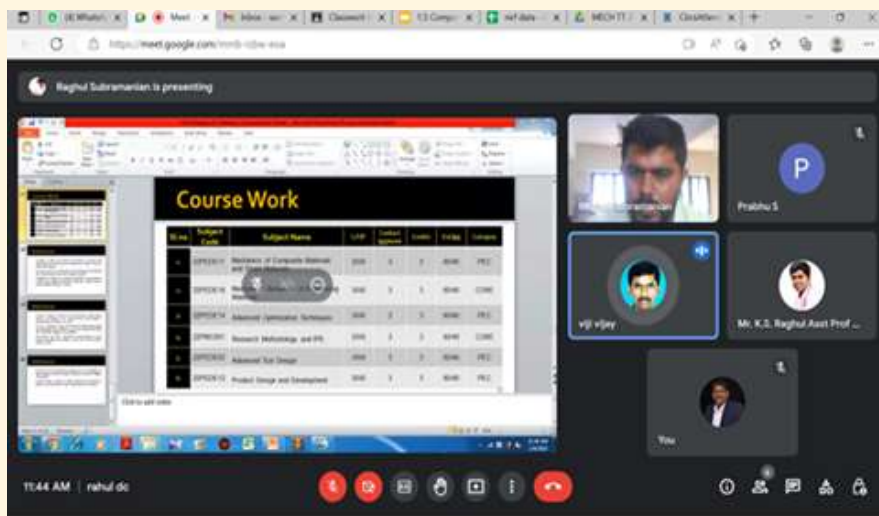


BOARD OF STUDIES



DOCTORAL COMMITTEE MEETING

Mr. K.S. Ragul and Mr. Adarsh Ajayan had successfully completed their Doctoral Committee meeting.



INSTITUTION OF ENGINEERS MEETING

Dr. P. Harihara Sakthi Sudhan, Asso. Professor, attended the coordinator meeting of the Institution of Engineers (India)

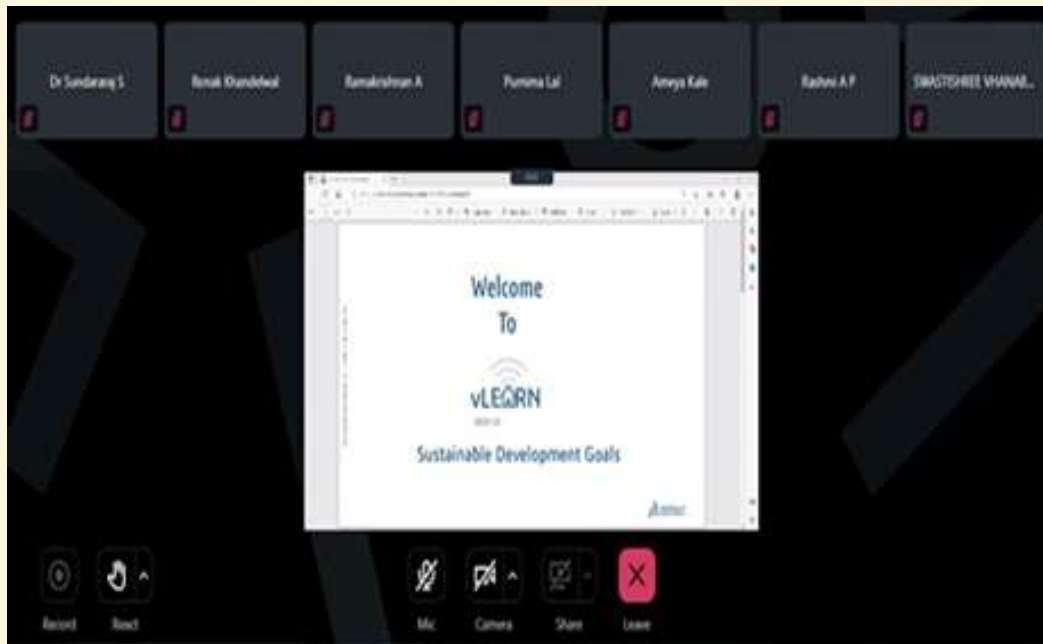


FACULTY PARTICIPATION & CERTIFICATION



FACULTY INDUSTRY CONNECT

Dr.S.Sundararaj, Professor, had delivered a lecture session on Sustainable Development Goals (SDGs) to the employees of Dassault Systemes, Pune



FACULTY INDUSTRIAL CONNECT



Corewire Surface Technology Pvt. Ltd.,
No.6, Vanagaram Road, Ayanambakkam,
Chennai – 600095
Tel. 0091 44 2653 0563
Email: sales@corewireindia.com

TO WHOM SOEVER IT MAY CONCERN

INDUSTRIAL TRAINING COMPLETION CERTIFICATE

This is to certify that **Dr. Sakhivel P, Associate Professor of Mechanical Engineering Department, Sri Krishna College of Technology, Coimbatore** has undergone the industrial training in our organization during **24-12-2022 to 31-12-2022.**

We wish him Good Luck.

for **COREWIRE SURFACE TECHNOLOGY PVT. LTD.,**

Jagadeesan.R | Manager



Corewire Surface Technology Pvt. Ltd.,
No.6, Vanagaram Road, Ayanambakkam,
Chennai – 600095
Tel. 0091 44 2653 0563
Email: sales@corewireindia.com

Industrial training

TO WHOM SOEVER IT MAY CONCERN

INDUSTRIAL TRAINING COMPLETION CERTIFICATE

This is to certify that **Dr. Santhosh S, Associate Professor of Mechanical Engineering Department, Sri Krishna College of Technology, Coimbatore** has undergone the industrial training in our organization during **24-12-2022 to 31-12-2022.**

We wish him Good Luck.

for **COREWIRE SURFACE TECHNOLOGY PVT. LTD.,**

Jagadeesan.R | Manager



PUBLICATIONS

Mr. K. Mohan Asst. Professor along with Mr M Solai Ganesh, Mr S Surya Mr S Suriya Prakash and Mr K Vimal Kannan Final year students have published a journal in International Journal of Vehicle Structures & Systems.

Mohan et al. 2022. *Int. J. Vehicle Structures & Systems*, 14(7), 880-884
ISSN: 0975-3060 (Print), 0975-3540 (Online)
doi: 10.4273/ijvss.14.7.10
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**International Journal of
Vehicle Structures & Systems**
Available online at www.mafree.org/eja

Performance and Emission Analysis of Corn Oil and Rice Bran Oil using Ethanol, Methanal and Sodium Hydroxide Additives

K. Mohan*, M. Solai Ganesh, S. Surya Prakash, S. Surya and K. Vimal Kannan

Dept. of Mech. Engg., Sri Krishna College of Tech., Coimbatore, Tamil Nadu, India

*Corresponding Author, Email: mohan.k@skct.edu.in

ABSTRACT:

The fuel consumption rate has been increased in our world compared to older days. Most of the fuels which we use are fossil fuel which has high emissions of greenhouse gases which leads to pollution and global warming. Fuels are getting higher price range nowadays. So, we are trying to find a better alternative fuel which will be cost efficient and less harmful to the planet. In this study we try to solve the problem by experimenting and evaluating the mixture of oils which may reduce emissions of harmful gases. In this project we are using corn oil, rice bran oil with additives and mixing them with conventional fuel i.e., diesel to convert the collected oils into a biodiesel. This process is commonly known as transesterification. The biodiesels are mixed in three different forms like B30, B40, and B50, in which B30 contains 70% of diesel and 15% of corn oil and 15% of rice bran oil. B40 contains 60% of diesel, 20% of corn oil and 20% of rice bran oil. B50 contains 50% of diesel, 25% of corn oil and 25% of rice bran oil. We are mixing these oils with diesel and other additives in three different ratios in order to get the maximum performance and lowest emission from a diesel engine. These samples are used as an alternative to conventional diesel in a diesel engine and the engine's performance was evaluated. The performance of the engine is evaluated by parameters which include brake thermal efficiency, volumetric efficiency, specific fuel consumption and torque. The emission parameters are also tested which includes the emission level of CO, CO₂, NO_x, SO_x and HC. These tests are done under different load conditions varying from no load up to 10kg. The results from the three samples (B30, B40 and B50) are compared to the conventional diesel which is being used in most conditions.

KEYWORDS:

Corn oil; Rice bran oil; Biodiesel; Performance; Emission

CITATION:

K. Mohan, M.S. Ganesh, S.S.Prakash, S. Surya and K.V.Kannan. 2022. Performance and Emission Analysis of Corn Oil and Rice Bran Oil using Ethanol, Methanal and Sodium Hydroxide Additives, *Int. J. Vehicle Structures & Systems*, 14(7), 880-884. doi:10.4273/ijvss.14.7.10.

1. Introduction

A biodiesel is a fuel like native diesel which can be used in IC engines as an alternative to native fuel which is being used in most cases around the globe [1]. Alternative to native fuels which produce higher emissions of carbon. Higher emissions of carbon and related emissions like carbon dioxide, nitrogen oxide, sulphur dioxide, sulphur oxides are increasing the global

converting it into biodiesels, one of the methods of converting vegetable oils into bio diesel is transesterification [5]. From these wide varieties of oils, we selected corn oil and rice bran oil due to their cost efficiency, high calorific value and other parameters to be used as a fuel. In the process of converting oil into biodiesel we use additives to completely convert it into a fuel. Some of the additives used are ethanol, n-butanol, and diethyl ether methanol [6]. Thus the converted oil is



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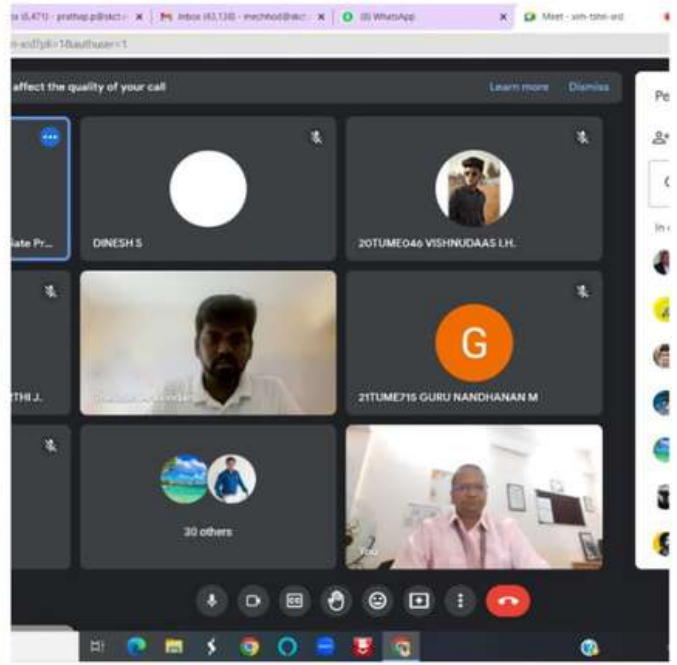
Mechanical Engineers in Future Industries

Resource Person
Mr. Theliban Aravindan
Sr. Analyst - Engineering
Drivetrain,
Caterpillar Inc.

Day - Saturday, January 28, 2023
Time - 10:00 A.M to 11:00 A.M

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COIMBATORE

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MR.K.SENTHIL KUMAR, AP/MECH
MR.S.RAM KUMAR, AP/MECH



ALUMNI CORNER

Mr. P.N Bala kumaran, Alumini of SKCT (17 -21 batch) interacted with Dr P Prathap Head of Department



Alumni
Corner



MBA



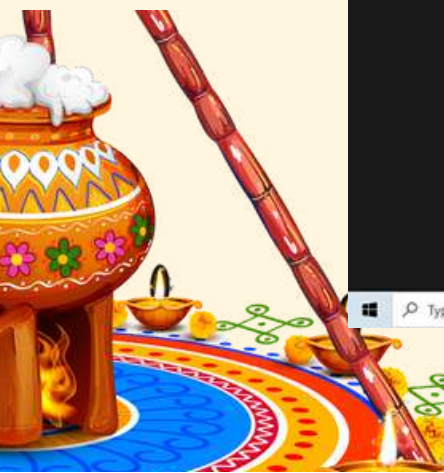
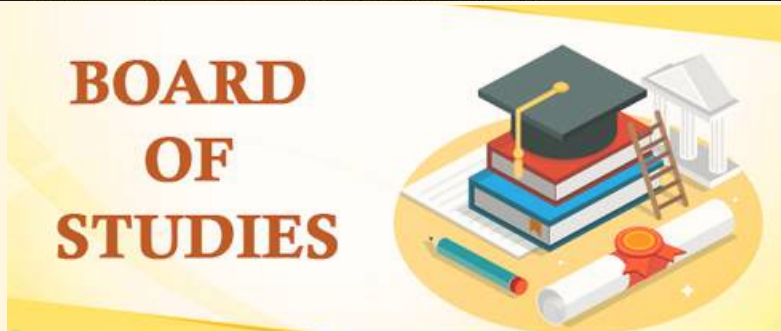
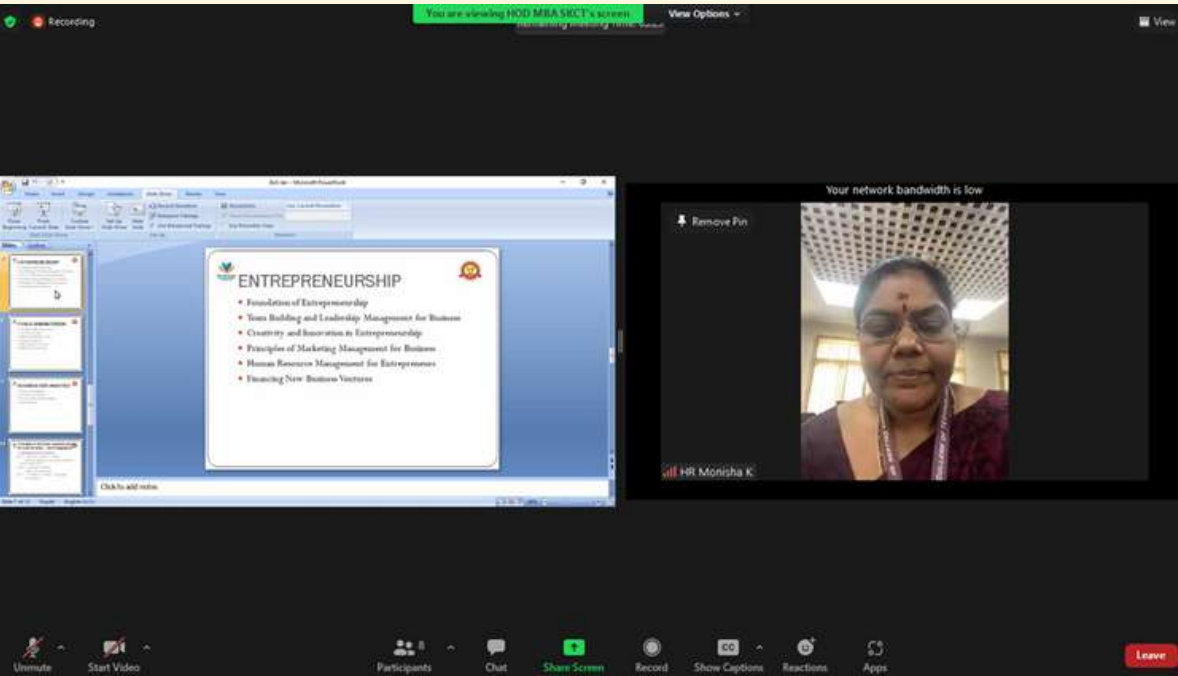
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MBA
Masters of Business Administration



BOARD OF STUDIES MEETING



FACULTY PARTICIPATION & CERTIFICATION



This is to certify that

Ms.K.Monisha

of

Sri Krishna College of Technology , Tamil Nadu

has undergone Innovation Ambassador (IA) training 'Foundation Level' (Total 15 Sessions of 30 contact hours) conducted in online mode by MoE's innovation Cell & AICTE during the IIC calendar year 2021-22.

Abhay Jere

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell

Dipan Sahu

Mr. Dipan Sahu
Assistant Innovation Director
MoE's Innovation Cell

Date of Issue: 27-12-2022

E-certificate No: IA/Foundation/1022325

IIC ID: IC201811141



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BIZEX
INNOVATIVE ENTREPRENEURS

Ms. KRUTHIKA KUMARAN
Co-Founder
Vilvah Store, Coimbatore

19th JAN, 2023 10.30 am

SEMINAR HALL 1, SKASC



S & H

Department of
Science & Humanities



Courtesy
Dr Kokilavani B



FACULTY PARTICIPATION & CERTIFICATIONS



PSG COLLEGE OF TECHNOLOGY, COIMBATORE, INDIA

DEPARTMENT OF MATHEMATICS



International Conference on Applied Mathematical Models
(ICAMM 2023)

CERTIFICATE

This is to certify that **Dr. V. PARIMALA**, Assistant Professor of Sri Krishna College of Technology, Coimbatore has presented a paper entitled Numerical Solutions of Z-Differential Equation by Modified Euler's Method in the International Conference on Applied Mathematical Models (ICAMM 2023) organized by Department of Mathematics, PSG College of Technology, Coimbatore, India during January 4 - 6, 2023.

Dr. T. VASANTHI
Organizing Secretary

Dr. C. PORKODI
Convener

CERTIFICATE

OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Dr. B. Kogilavani

For the valuable contribution towards the book "LITTLE MEMORIES TO CHERISH" compiled by Dr. M. Kanika Priya published under The Writing Arena with the ISBN 9789395415071 listed in many International platforms like Amazon.

KEERTHANA
(Founder Of The Writing Arena)



FACULTY PARTICIPATION & CERTIFICATIONS

Dr D Maheskumar Assistant Professors Department of Science and Humanities participated and presented his article entitled "Stability Analysis in Mathematical Model for Spread of Dengue Fever" in ICAMM '23 at PSG College of Technology



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BUT URGENT

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by
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Mr Sai
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**Leadership is the
capacity
to translate vision
into reality
–Warren Bennis**

**Glimpses of Leadership Enhancement Activation Program 2.0
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