SKCT supports the Sustainable Development Goals

Band 101-150
Engineering 2023

NATIONAL BOARD of ACCREDITATION
CSE | CIVIL | EEE | ECE
MECH | IT

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

SRI KRISHNA COLLEGE OF TECHNOLOGY

(An Autonomous Institution)
Affiliated to Anna University | Approved by AICTE
Accredited by NAAC with 'A' Grade
KOVAIPUDUR, COIMBATORE – 641 042.

APRIL
2024

VOL 24 - ISSUE 04

SKCT DIGEST

THE PRIDE OF OUR REFLECTION

Contact Us

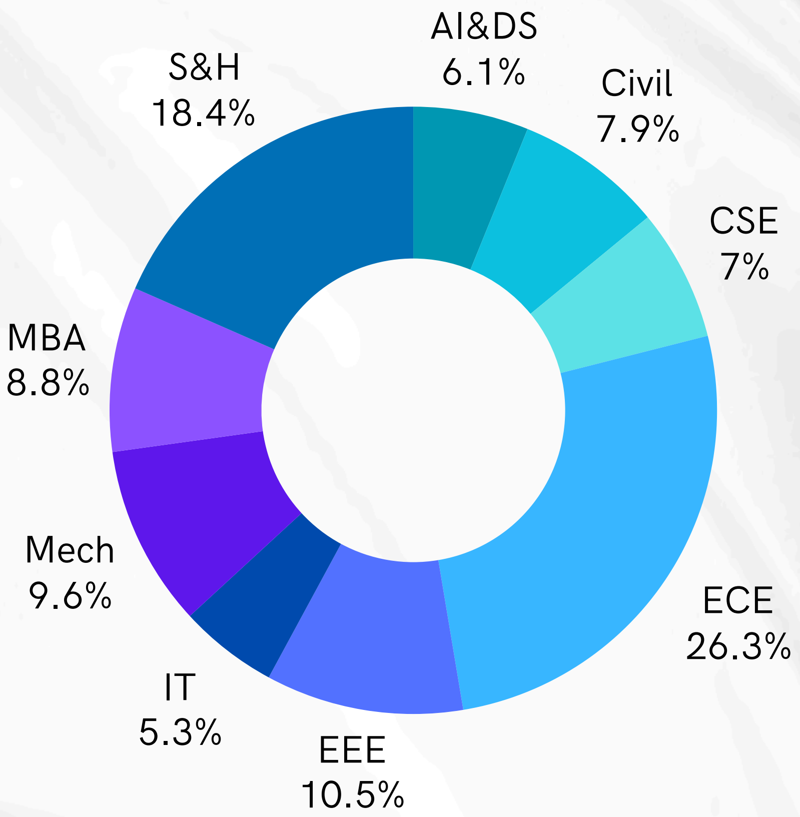
Visit Our Website
skct.edu.in

/SKCTOfficial

☎ 0422-2984567 - 68
Kovaipudur, Coimbatore - 641 042.

ISBN NUMBER
978-93-5895-815-7

CONTENTS



Departments	Number of Contents
Artificial Intelligence & Data Science - AI&DS	7
Civil Engineering - Civil	9
Computer Science Engineering - CSE	8
Electronics and Communication Engineering - ECE	30
Electrical and Electronics Engineering - EEE	12
Information Technology - IT	6
Mechanical Engineering - Mech	11
School of Management - MBA	10
Science and Humanities - S&H	21

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

PLACEMENTS

Congratulations to **Mr Sreehariharan V and Ms Sneha R S** on receiving **placement offers from Codingmart Technologies Pvt. Ltd.** Their achievement highlights their excellence in technology and coding, showcasing their potential by excelling in the dynamic field of software development. We wish them continued success and growth as they embark on this exciting professional journey.

Congratulations

Sreehariharan V
Batch 2021-25

Sneha R S
Batch 2021-25

For Receiving Placement Offer with

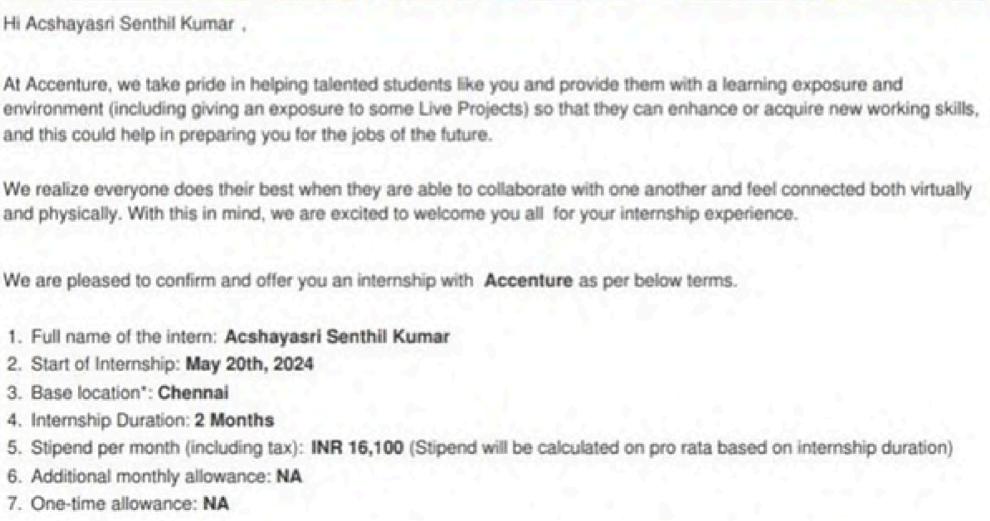
Codingmart Technologies Pvt Ltd

STUDENTS ACHIEVEMENT

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

INTERNSHIP OFFER

The Department of AI & DS is delighted to extend its warmest congratulations to **Ms S Acshaya Sri**, Student of III B.Tech. AI & DS, for her outstanding achievement in receiving an **internship offer from Accenture**. This accomplishment reflects her dedication and proficiency, highlighting her exceptional skills and potential in the field of Artificial Intelligence and Data Science.



Hi Acshayasri Senthil Kumar ,

At Accenture, we take pride in helping talented students like you and provide them with a learning exposure and environment (including giving an exposure to some Live Projects) so that they can enhance or acquire new working skills, and this could help in preparing you for the jobs of the future.

We realize everyone does their best when they are able to collaborate with one another and feel connected both virtually and physically. With this in mind, we are excited to welcome you all for your internship experience.

We are pleased to confirm and offer you an internship with **Accenture** as per below terms.

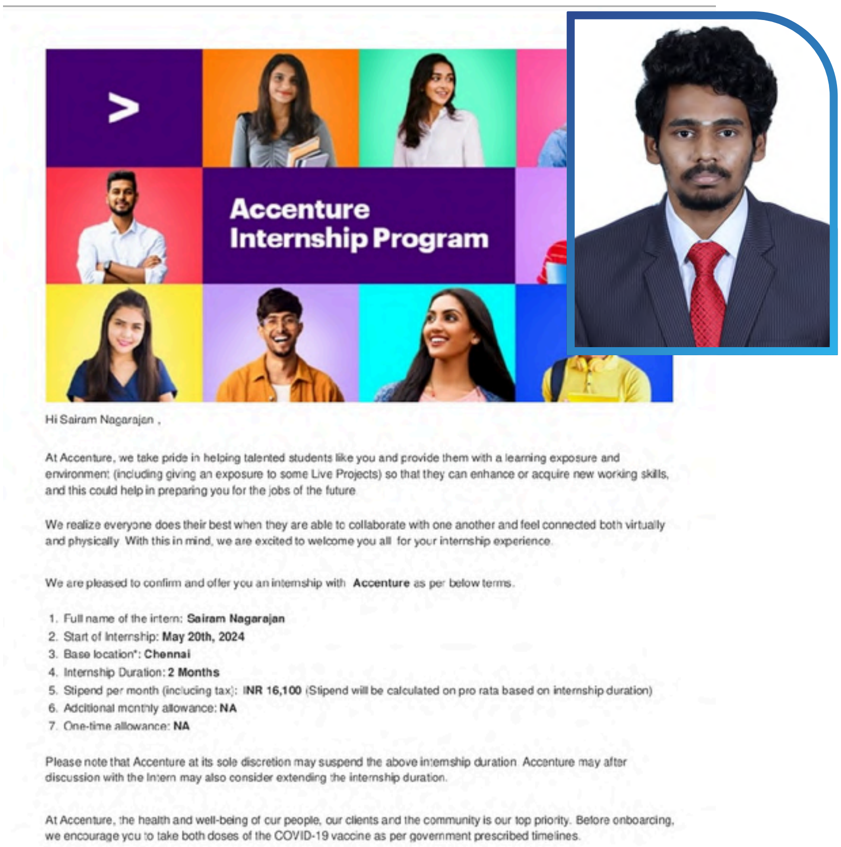
1. Full name of the intern: **Acshayasri Senthil Kumar**
2. Start of Internship: **May 20th, 2024**
3. Base location*: **Chennai**
4. Internship Duration: **2 Months**
5. Stipend per month (including tax): **INR 16,100** (Stipend will be calculated on pro rata based on internship duration)
6. Additional monthly allowance: **NA**
7. One-time allowance: **NA**

STUDENT ACHIEVEMENT

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

INTERNSHIP OFFER

The Department of AI&DS extends heartfelt congratulations to **Mr N Sairam** of III B.Tech. AI&DS for receiving an **Internship offer from Accenture.** We express profound gratitude to our esteemed mentors and department head for unwavering guidance and support throughout this remarkable journey.


>
Accenture Internship Program

Hi Sairam Nagarajan ,

At Accenture, we take pride in helping talented students like you and provide them with a learning exposure and environment (including giving an exposure to some Live Projects) so that they can enhance or acquire new working skills, and this could help in preparing you for the jobs of the future

We realize everyone does their best when they are able to collaborate with one another and feel connected both virtually and physically With this in mind, we are excited to welcome you all for your internship experience.

We are pleased to confirm and offer you an internship with **Accenture** as per below terms.

1. Full name of the intern: **Sairam Nagarajan**
2. Start of Internship: **May 20th, 2024**
3. Base location*: **Chennai**
4. Internship Duration: **2 Months**
5. Stipend per month (including tax): **INR 16,100** (Stipend will be calculated on pro rata based on internship duration)
6. Additional monthly allowance: **NA**
7. One-time allowance: **NA**

Please note that Accenture at its sole discretion may suspend the above internship duration Accenture may after discussion with the Intern may also consider extending the internship duration.

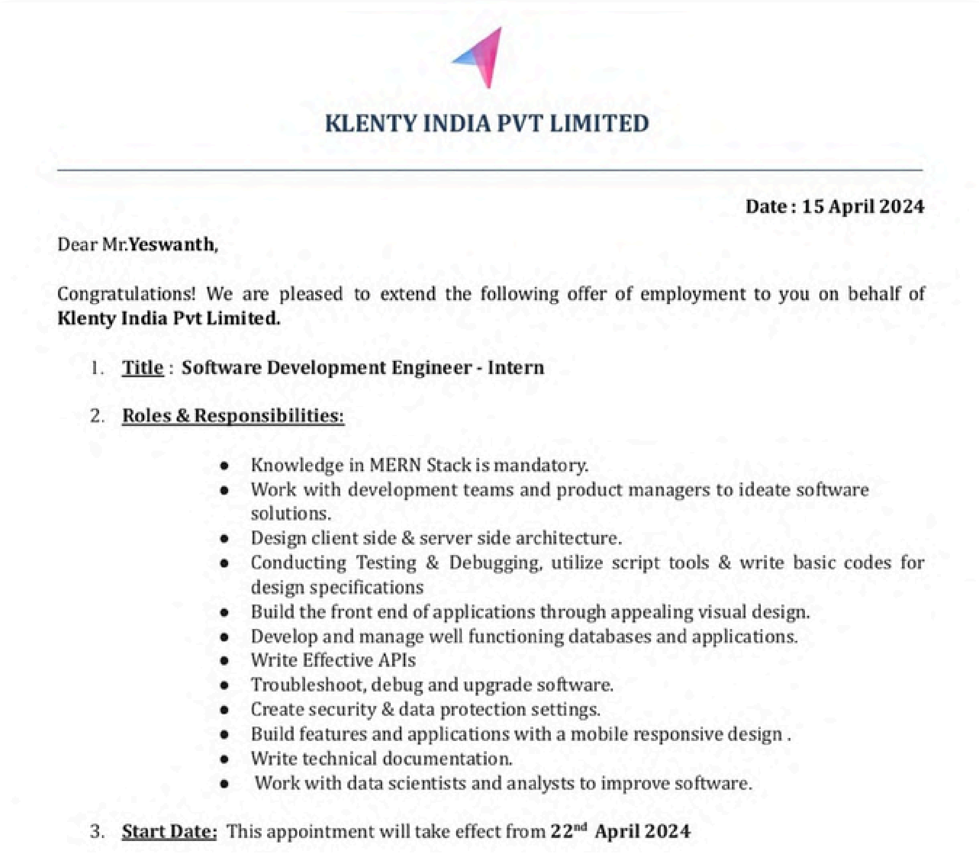
At Accenture, the health and well-being of our people, our clients and the community is our top priority. Before onboarding, we encourage you to take both doses of the COVID-19 vaccine as per government prescribed timelines.

STUDENT ACHIEVEMENT

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

INTERNSHIP OFFER

The Department of AI & DS is delighted to extend its heartfelt congratulations to **Mr Yeswanth** of III B.Tech. AI&DS for receiving an **internship offer from Klenty India Pvt. Ltd.**



KLENTY INDIA PVT LIMITED

Date : 15 April 2024

Dear Mr.**Yeswanth**,

Congratulations! We are pleased to extend the following offer of employment to you on behalf of **Klenty India Pvt Limited.**

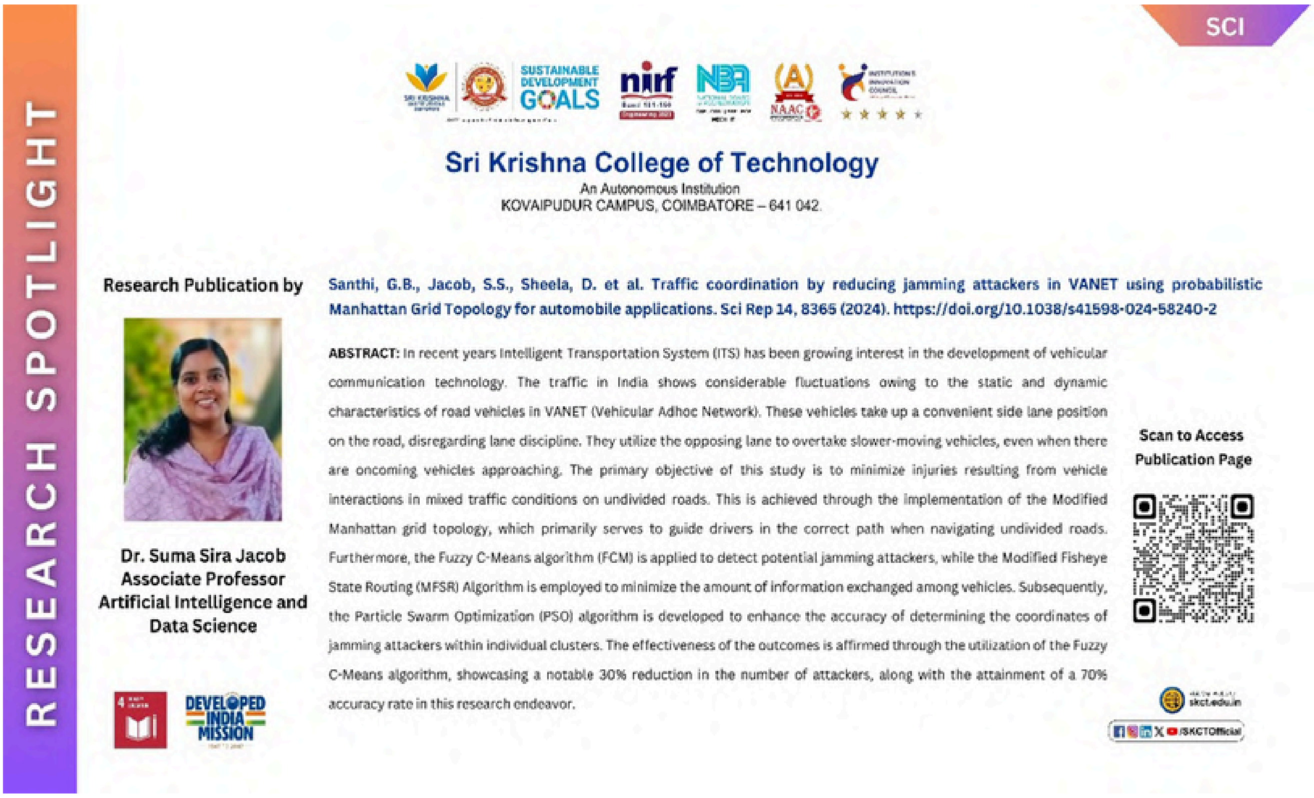
1. Title : **Software Development Engineer - Intern**
2. Roles & Responsibilities:
    - Knowledge in MERN Stack is mandatory.
    - Work with development teams and product managers to ideate software solutions.
    - Design client side & server side architecture.
    - Conducting Testing & Debugging, utilize script tools & write basic codes for design specifications
    - Build the front end of applications through appealing visual design.
    - Develop and manage well functioning databases and applications.
    - Write Effective APIs
    - Troubleshoot, debug and upgrade software.
    - Create security & data protection settings.
    - Build features and applications with a mobile responsive design .
    - Write technical documentation.
    - Work with data scientists and analysts to improve software.
3. Start Date: This appointment will take effect from **22nd April 2024**

STUDENT ACHIEVEMENT

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

PUBLICATION

Dr Suma Sira Jacob, Associate Professor, **published an article in SCI-indexed journal** with research on VANET traffic coordination titled “Traffic coordination by reducing jamming attackers in VANET using probabilistic Manhattan Grid Topology for automobile applications.”



RESEARCH SPOTLIGHT

SCI

Sri Krishna College of Technology

An Autonomous Institution
KOVAIPUDUR CAMPUS, COIMBATORE – 641 042.

Research Publication by

Dr. Suma Sira Jacob
Associate Professor
Artificial Intelligence and Data Science

Santhi, G.B., Jacob, S.S., Sheela, D. et al. Traffic coordination by reducing jamming attackers in VANET using probabilistic Manhattan Grid Topology for automobile applications. Sci Rep 14, 8365 (2024). https://doi.org/10.1038/s41598-024-58240-2

ABSTRACT: In recent years Intelligent Transportation System (ITS) has been growing interest in the development of vehicular communication technology. The traffic in India shows considerable fluctuations owing to the static and dynamic characteristics of road vehicles in VANET (Vehicular Adhoc Network). These vehicles take up a convenient side lane position on the road, disregarding lane discipline. They utilize the opposing lane to overtake slower-moving vehicles, even when there are oncoming vehicles approaching. The primary objective of this study is to minimize injuries resulting from vehicle interactions in mixed traffic conditions on undivided roads. This is achieved through the implementation of the Modified Manhattan grid topology, which primarily serves to guide drivers in the correct path when navigating undivided roads. Furthermore, the Fuzzy C-Means algorithm (FCM) is applied to detect potential jamming attackers, while the Modified Fisheye State Routing (MFSR) Algorithm is employed to minimize the amount of information exchanged among vehicles. Subsequently, the Particle Swarm Optimization (PSO) algorithm is developed to enhance the accuracy of determining the coordinates of jamming attackers within individual clusters. The effectiveness of the outcomes is affirmed through the utilization of the Fuzzy C-Means algorithm, showcasing a notable 30% reduction in the number of attackers, along with the attainment of a 70% accuracy rate in this research endeavor.

Scan to Access Publication Page

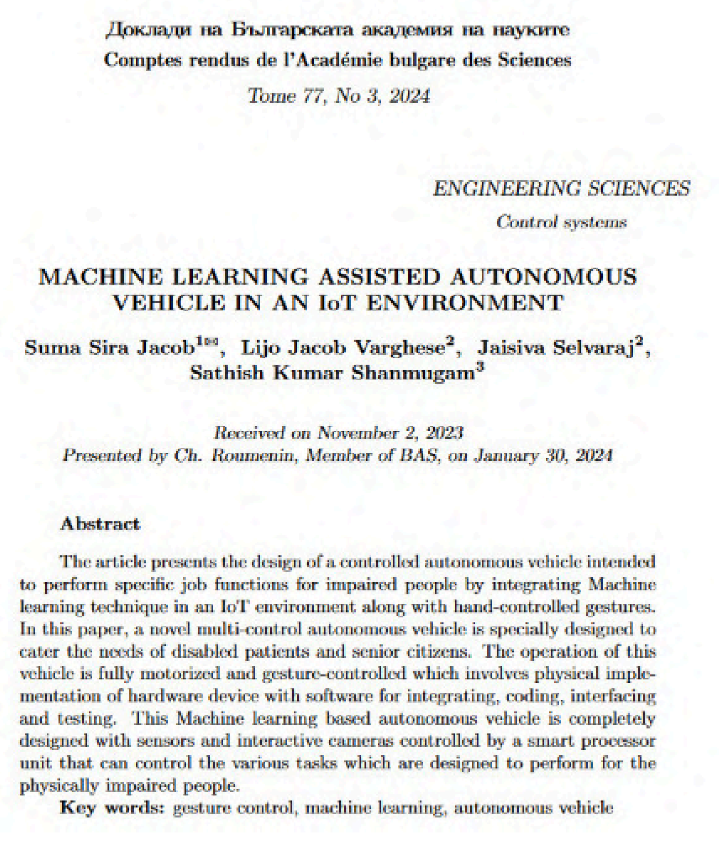
skct.edu.in
/SKCTOfficial

FACULTY ACHIEVEMENT

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

PUBLICATION

Dr Suma Sira Jacob, Associate Professor, proudly presents her latest publication titled "Machine Learning Assisted Autonomous Vehicle in an IoT Environment" in the esteemed SCI Journal, Proceedings of the Bulgarian Academy of Sciences. Co-authored by Dr. Lijo Jacob Varghese, Prof/EEE, and Dr. Jaisiva Selvaraj, ASP/EEE, this groundbreaking article advances our understanding of AI-driven autonomous vehicles within IoT ecosystems.



Доклади на Българската академия на науките
Comptes rendus de l'Académie bulgare des Sciences
Tome 77, No 3, 2024

ENGINEERING SCIENCES
Control systems

MACHINE LEARNING ASSISTED AUTONOMOUS VEHICLE IN AN IoT ENVIRONMENT

Suma Sira Jacob[1]✉, Lijo Jacob Varghese[2], Jaisiva Selvaraj[2],
Sathish Kumar Shanmugam[3]

Received on November 2, 2023
Presented by Ch. Roumenin, Member of BAS, on January 30, 2024

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 gestures. In this paper, a novel multi-control autonomous vehicle is specially designed to cater the needs 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 vehicle is completely designed with sensors 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 vehicle

FACULTY ACHIEVEMENT

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

CONFERENCE

Ms S Soundarya, Assistant Professor in AI & ML, **presented a paper** titled "EEG Based Brain Behavior Analysis Using Deep Learning" at the 2nd International Conference on Innovative Trends in Engineering and Sciences (ICITES - 2024), organised by Bannari Amman Institute of Technology, Sathyamangalam on March 27, 2024.

BANNARI AMMAN INSTITUTE OF TECHNOLOGY
SATHYAMANGALAM - 638401 - ERODE DISTRICT - TAMILNADU INDIA
2nd International Conference on Innovative Trends in Engineering and Sciences (ICITES-2024)
Organized by
SCHOOL OF MECHANICAL SCIENCES
March 26 - 27, 2024

USING DEEP LEARNING
Presented by,
S.Soundarya
ICITES-24-281

FACULTY PARTICIPATION

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

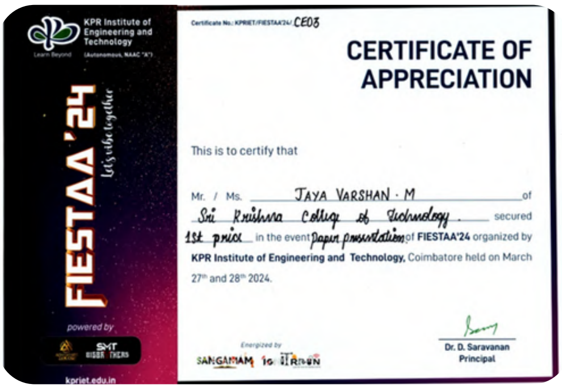
SKCT-AI&DS and AI&ML partnered with **Cognizant for the Nurture Partner Network Program (NPN)** led by **Mr Monish, Project Manager** in Coimbatore. The session on 26.04.24 featured segments on ETL tools, rapid fire sessions, and team activities. **Dr T Rajesh Kumar and Dr S Dilip Kumar** coordinated the event. Sixty students from III B.Tech. AI&DS gained practical insights and clarification on **foundational topics**, enhancing their understanding of real-world applications. The program emphasized hands-on learning, providing invaluable experience and fostering collaboration between academia and industry.

EVENT ORGANIZED

CIVIL

CERTIFICATIONS

Mr Jayavarshan M, Ms Suha Mercy J, Mr Mohan Raj K and Mr Dinesh Kumar T S of II B.E. Civil Engineering secured the 1st place in **Paper Presentation** of FIESTAA’24, organized by KPR Institute of Engineering and Technology, Coimbatore. They have been awarded with a cash prize of Rs. 3000/- on March 27, 2024.



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
powered by SMT
kpriet.edu.in

Certificate No.: KPRIET/FIESTAA'24/ CE03

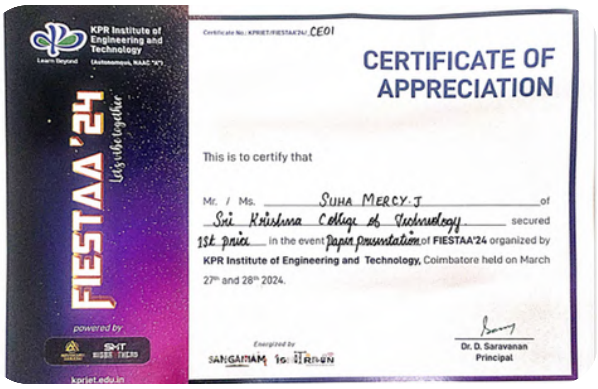
CERTIFICATE OF APPRECIATION

This is to certify that

Mr. / Ms. JAYA VARSHAN · M of Sri Krishna College of Technology. secured 1st price in the event Paper presentation of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.

Energized by SANGAMAM

Dr. D. Saravanan
Principal



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
powered by SMT
kpriet.edu.in

Certificate No.: KPRIET/FIESTAA'24/ CE01

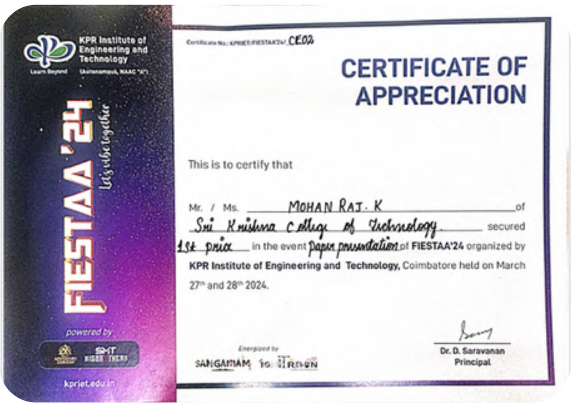
CERTIFICATE OF APPRECIATION

This is to certify that

Mr. / Ms. SUHA MERCY · J of Sri Krishna College of Technology. secured 1st price in the event Paper presentation of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.

Energized by SANGAMAM

Dr. D. Saravanan
Principal



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
powered by SMT
kpriet.edu.in

Certificate No.: KPRIET/FIESTAA'24/ CE02

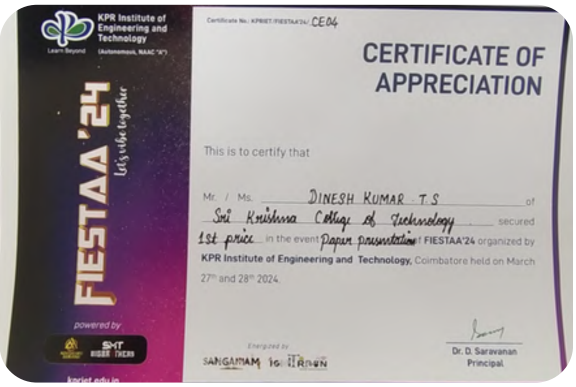
CERTIFICATE OF APPRECIATION

This is to certify that

Mr. / Ms. MOHAN RAJ · K of Sri Krishna college of Technology secured 1st price in the event Paper presentation of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.

Energized by SANGAMAM

Dr. D. Saravanan
Principal



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
powered by SMT
kpriet.edu.in

Certificate No.: KPRIET/FIESTAA'24/ CE04

CERTIFICATE OF APPRECIATION

This is to certify that

Mr. / Ms. DINESH KUMAR · T.S of Sri Krishna College of Technology secured 1st price in the event Paper presentation of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.

Energized by SANGAMAM

Dr. D. Saravanan
Principal

Mr Jayavarshan

Ms Suha Mercy J

Mr Mohan Raj K

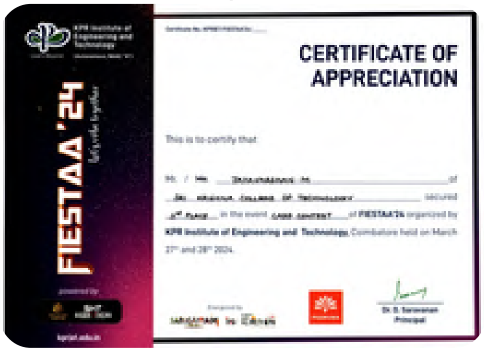
Mr Dinesh Kumar T S

FACULTY PARTICIPATION

CIVIL

CERTIFICATIONS

Mr Jayavarshan M of II B.E. Civil Engineering **secured the 2nd place in the CADD Contest** of FIESTAA'24, organized by KPR Institute of Engineering and Technology, Coimbatore. They have been awarded with a cash prize of Rs. 1000/- on March 27, 2024.



CERTIFICATE OF APPRECIATION

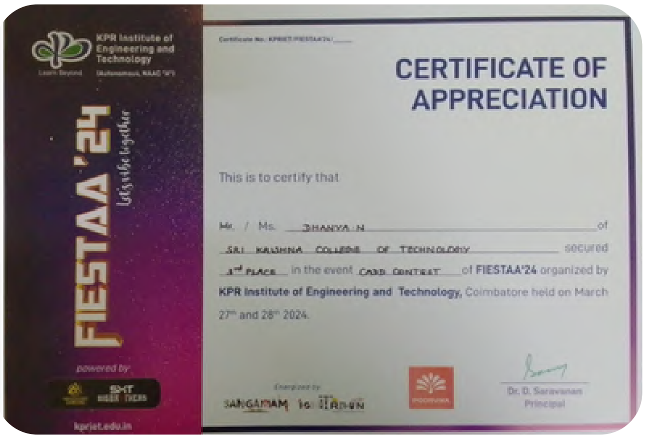
This is to certify that

Mr. / Ms. ____ of ____ secured ____ in the event ____ of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.

Dr. D. Saravanan
Principal

STUDENT ACHIEVEMENT

Ms Dhanya N of II B.E. Civil Engineering **secured the 3rd place in CADD Contest** of FIESTAA'24, organized by KPR Institute of Engineering and Technology, Coimbatore. They have been awarded with a cash prize of Rs. 500/- on March 27, 2024.



CERTIFICATE OF APPRECIATION

This is to certify that

Mr. / Ms. DHANYA N of
SRI KRISHNA COLLEGE OF TECHNOLOGY secured
3rd PLACE in the event CADD CONTEST of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.

Dr. D. Saravanan
Principal

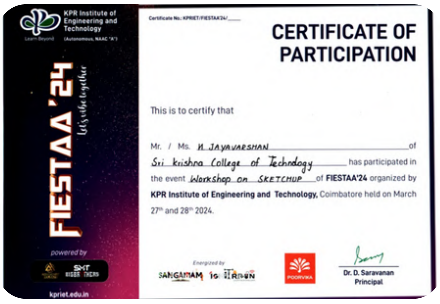
KPR Institute of Engineering and Technology
FIESTAA '24
powered by
kpriet.edu.in
SANGAMAM

STUDENT ACHIEVEMENT

CIVIL

CERTIFICATIONS

Mr M Jayavarshan, Ms J Suha Mercy, Mr T S Dinesh Kumar, Ms N Dhanya, Ms R Prathipa, Ms K Hemadharshini and Mr K Mohan Raj of II B.E. Civil Engineering **attended a Workshop on "SKETCHUP"** organised by KPR Institute of Engineering and Technology, Coimbatore during 27-28 March 2024.


KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
powered by SMT
kpriet.edu.in

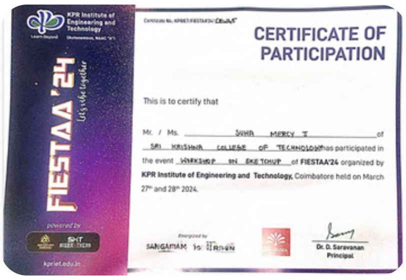
Certificate No.: KPRIET/FIESTAA'24/____

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. / Ms. M JAYAVARSHAN of Sri krishna College of Technology has participated in the event Workshop on SKETCHUP of **FIESTAA'24** organized by **KPR Institute of Engineering and Technology,** Coimbatore held on March 27th and 28th 2024.

Energized by SANGAMAM IGNITRON
POORVIKA
Dr. D. Saravanan
Principal

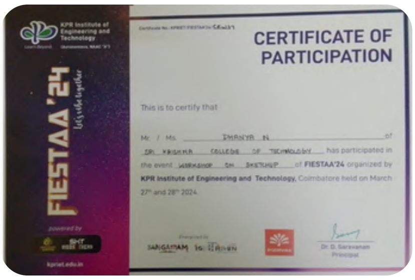

Certificate No.: KPRIET/FIESTAA'24/

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. / Ms. SUHA MERCY J of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated in the event WORKSHOP ON SKETCHUP of **FIESTAA'24** organized by **KPR Institute of Engineering and Technology,** Coimbatore held on March 27th and 28th 2024.

Dr. D. Saravanan
Principal

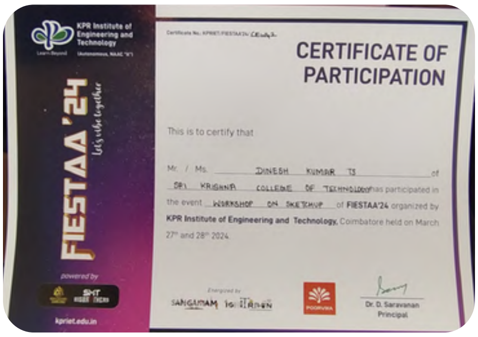

Certificate No.: KPRIET/FIESTAA'24/

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. / Ms. DHANYA N of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated in the event WORKSHOP ON SKETCHUP of **FIESTAA'24** organized by **KPR Institute of Engineering and Technology,** Coimbatore held on March 27th and 28th 2024.

Dr. D. Saravanan
Principal

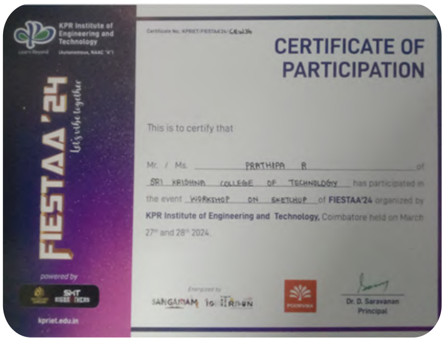

Certificate No.: KPRIET/FIESTAA'24/

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. / Ms. DINESH KUMAR TS of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated in the event WORKSHOP ON SKETCHUP of **FIESTAA'24** organized by **KPR Institute of Engineering and Technology,** Coimbatore held on March 27th and 28th 2024.

Dr. D. Saravanan
Principal

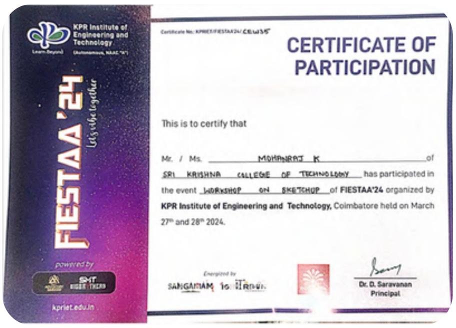

Certificate No.: KPRIET/FIESTAA'24/

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. / Ms. PRATHIPA R of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated in the event WORKSHOP ON SKETCHUP of **FIESTAA'24** organized by **KPR Institute of Engineering and Technology,** Coimbatore held on March 27th and 28th 2024.

Dr. D. Saravanan
Principal

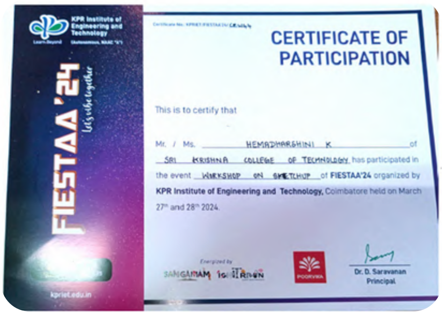

Certificate No.: KPRIET/FIESTAA'24/

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. / Ms. MOHANRAJ K of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated in the event WORKSHOP ON SKETCHUP of **FIESTAA'24** organized by **KPR Institute of Engineering and Technology,** Coimbatore held on March 27th and 28th 2024.

Dr. D. Saravanan
Principal


Certificate No.: KPRIET/FIESTAA'24/

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. / Ms. HEMADHARSHINI K of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated in the event WORKSHOP ON SKETCHUP of **FIESTAA'24** organized by **KPR Institute of Engineering and Technology,** Coimbatore held on March 27th and 28th 2024.

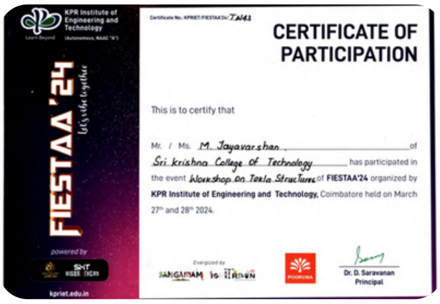
Dr. D. Saravanan
Principal

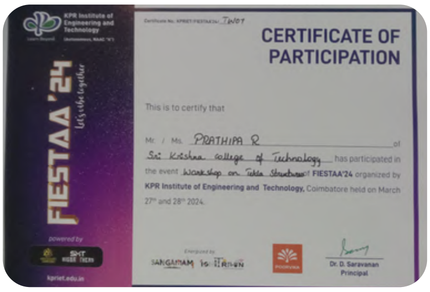
STUDENTS PARTICIPATION

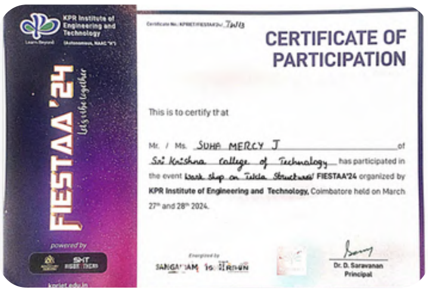
CIVIL

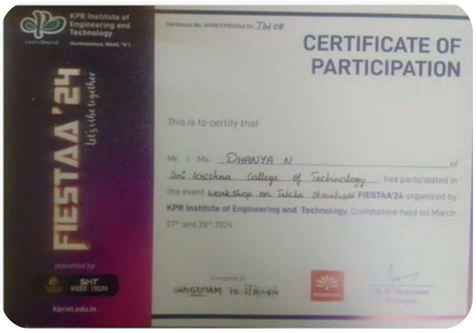
CERTIFICATIONS

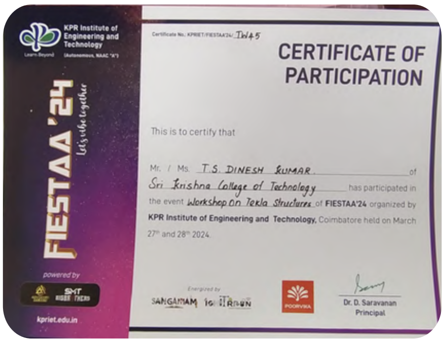
Mr M Jayavarshan, Ms J Suha Mercy, Mr T S Dinesh Kumar, Ms N Dhanya, Ms R Prathipa, Ms K Hemadharshini and Mr K Mohan Raj of II B.E Civil Engineering **attended a Workshop on "Tekla structures"** organised by KPR Institute of Engineering and Technology, Coimbatore during 27-28 March 2024.

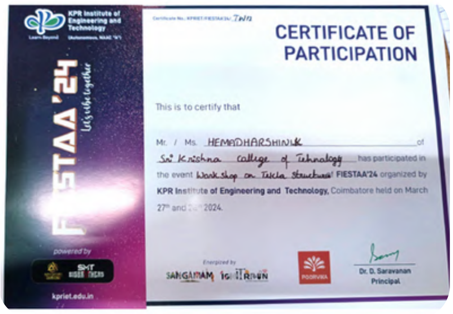

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
Certificate No.: KPRIET/FIESTAA'24/ TW41
CERTIFICATE OF PARTICIPATION
This is to certify that
Mr. / Ms. M. Jayavarshan. of
Sri krishna College Of Technology has participated in the event Workshop on Tekla StrucTures of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.
powered by SMT
Energized by SANGAMAM IGNITRON
POORVIKA
Dr. D. Saravanan
Principal
kpriet.edu.in

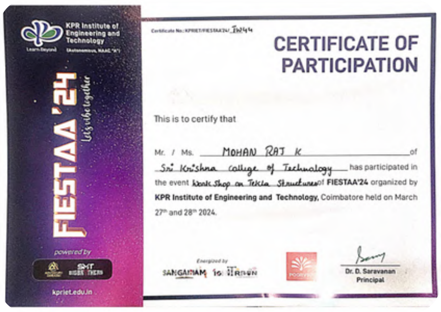

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
Certificate No.: KPRIET/FIESTAA'24/ TW07
CERTIFICATE OF PARTICIPATION
This is to certify that
Mr. / Ms. PRATHIPA R of
Sri Krishna college of Technology has participated in the event Workshop on Tekla Structures of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.
powered by SMT
Energized by SANGAMAM IGNITRON
POORVIKA
Dr. D. Saravanan
Principal
kpriet.edu.in


KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
Certificate No.: KPRIET/FIESTAA'24/ TW13
CERTIFICATE OF PARTICIPATION
This is to certify that
Mr. / Ms. SUHA MERCY J of
Sri Krishna college of Technology has participated in the event Work shop on Tekla Structures of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.
powered by SMT
Energized by SANGAMAM IGNITRON
Dr. D. Saravanan
Principal
kpriet.edu.in


KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
Certificate No.: KPRIET/FIESTAA'24/ TW08
CERTIFICATE OF PARTICIPATION
This is to certify that
Mr. / Ms. DHANYA N of
Sri Krishna College of Technology has participated in the event Workshop on Tekla Structures of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.
powered by SMT
Energized by SANGAMAM IGNITRON
kpriet.edu.in


KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
Certificate No.: KPRIET/FIESTAA'24/ TW45
CERTIFICATE OF PARTICIPATION
This is to certify that
Mr. / Ms. T.S. DINESH KUMAR. of
Sri Krishna College of Technology has participated in the event Workshop on Tekla Structures of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.
powered by SMT
Energized by SANGAMAM IGNITRON
POORVIKA
Dr. D. Saravanan
Principal
kpriet.edu.in


KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
Certificate No.: KPRIET/FIESTAA'24/ TW12
CERTIFICATE OF PARTICIPATION
This is to certify that
Mr. / Ms. HEMADHARSHINI K of
Sri Krishna college of Tehnology has participated in the event Work shop on Tekla Structures of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and [illegible] 2024.
powered by SMT
Energized by SANGAMAM IGNITRON
POORVIKA
Dr. D. Saravanan
Principal
kpriet.edu.in

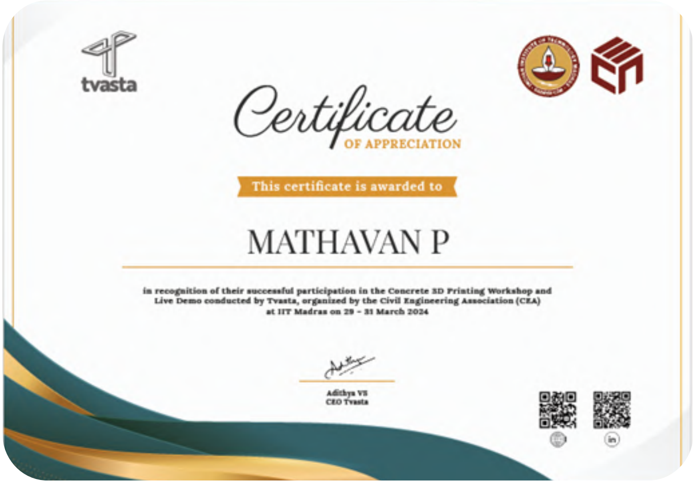

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
FIESTAA '24 Let's vibe together
Certificate No.: KPRIET/FIESTAA'24/ TW44
CERTIFICATE OF PARTICIPATION
This is to certify that
Mr. / Ms. MOHAN RAJ K of
Sri Krishna college of Technology has participated in the event Work Shop on Tekla Structures of FIESTAA'24 organized by KPR Institute of Engineering and Technology, Coimbatore held on March 27th and 28th 2024.
powered by SMT
Energized by SANGAMAM IGNITRON
Dr. D. Saravanan
Principal
kpriet.edu.in

STUDENTS PARTICIPATION

CIVIL

CERTIFICATIONS

Mr P Mathavan, Mr S Mugesh and Mr T Selva Kumar of III B.E. Civil Engineering **attended a workshop on "Concrete 3D Printing"** organized by IIT Madras, Chennai during 29-31 March 2024.



tvasta

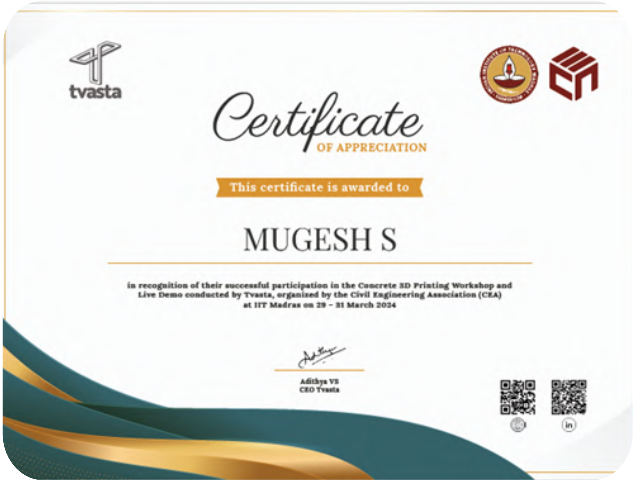
Certificate OF APPRECIATION

This certificate is awarded to

MATHAVAN P

in recognition of their successful participation in the Concrete 3D Printing Workshop and Live Demo conducted by Tvasta, organized by the Civil Engineering Association (CEA) at IIT Madras on 29 - 31 March 2024

Adithya VS
CEO Tvasta



tvasta

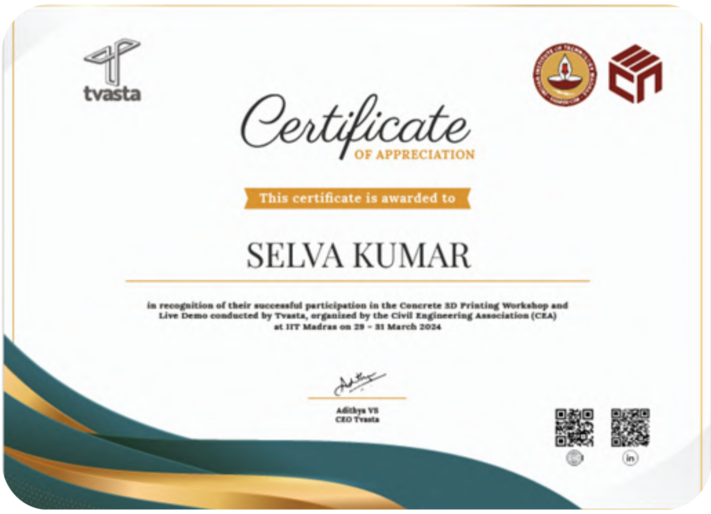
Certificate OF APPRECIATION

This certificate is awarded to

MUGESH S

in recognition of their successful participation in the Concrete 3D Printing Workshop and Live Demo conducted by Tvasta, organized by the Civil Engineering Association (CEA) at IIT Madras on 29 - 31 March 2024

Adithya VS
CEO Tvasta



tvasta

Certificate OF APPRECIATION

This certificate is awarded to

SELVA KUMAR

in recognition of their successful participation in the Concrete 3D Printing Workshop and Live Demo conducted by Tvasta, organized by the Civil Engineering Association (CEA) at IIT Madras on 29 - 31 March 2024

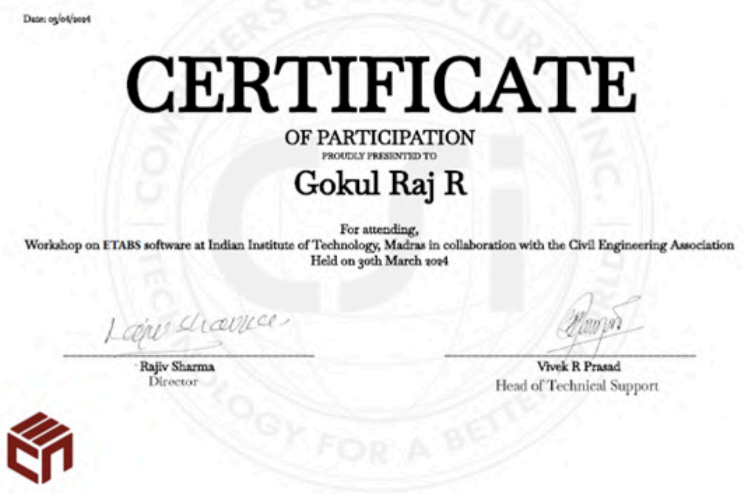
Adithya VS
CEO Tvasta

STUDENTS PARTICIPATION

CIVIL

CERTIFICATIONS

Mr R Gokul Raj and Mr P Mathavan of III B.E. Civil Engineering **attended a workshop on "ETABS Software"** organized by IIT Madras, Chennai on 30 March 2024.



Date: 03/04/2024

CERTIFICATE

OF PARTICIPATION

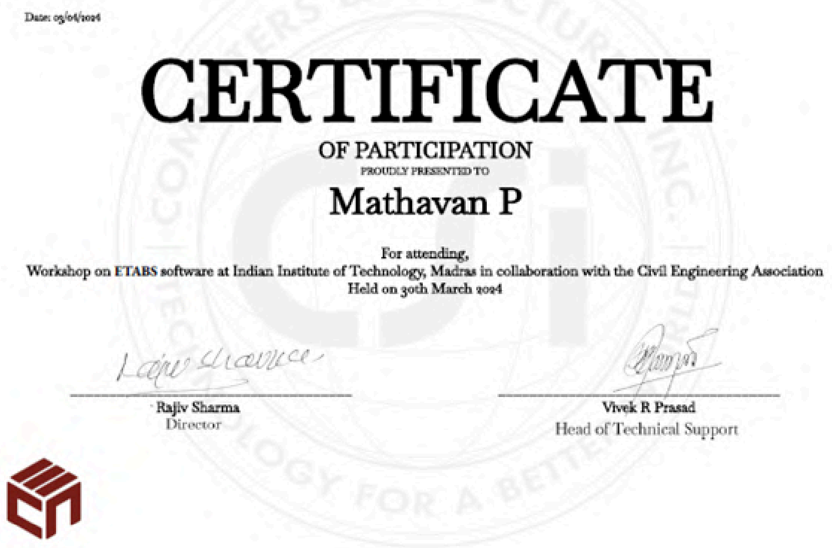
PROUDLY PRESENTED TO

Gokul Raj R

For attending,
Workshop on ETABS software at Indian Institute of Technology, Madras in collaboration with the Civil Engineering Association
Held on 30th March 2024

Rajiv Sharma
Director

Vivek R Prasad
Head of Technical Support



Date: 03/04/2024

CERTIFICATE

OF PARTICIPATION

PROUDLY PRESENTED TO

Mathavan P

For attending,
Workshop on ETABS software at Indian Institute of Technology, Madras in collaboration with the Civil Engineering Association
Held on 30th March 2024

Rajiv Sharma
Director

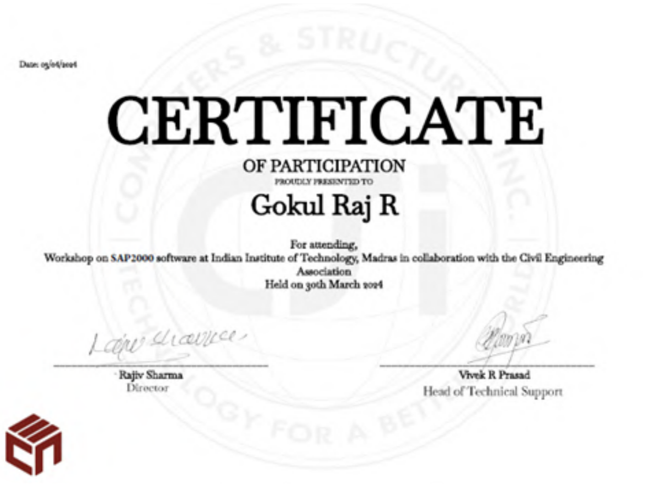
Vivek R Prasad
Head of Technical Support

STUDENTS PARTICIPATION

CIVIL

CERTIFICATIONS

Mr R Gokul Raj, Mr P Mathavan, Mr S Mugesh and Mr T Selva Kumar of III B.E. Civil Engineering **attended a workshop on "SAP2000 Software"** organized by IIT Madras, Chennai on 30 March 2024.



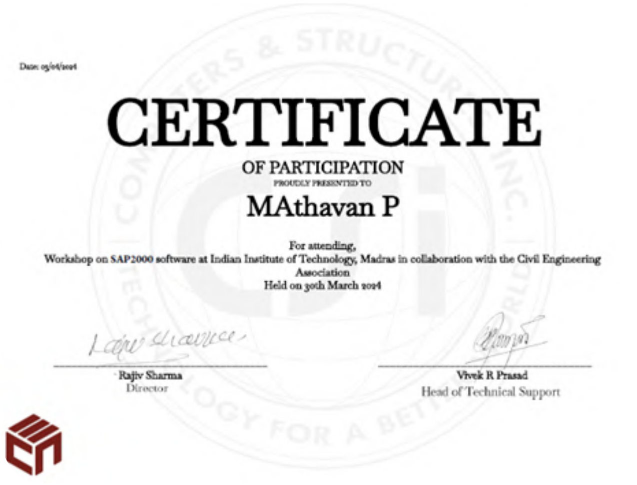
Date: 05/04/2024

CERTIFICATE
OF PARTICIPATION
PROUDLY PRESENTED TO
Gokul Raj R

For attending,
Workshop on SAP2000 software at Indian Institute of Technology, Madras in collaboration with the Civil Engineering Association
Held on 30th March 2024

Rajiv Sharma
Director

Vivek R Prasad
Head of Technical Support



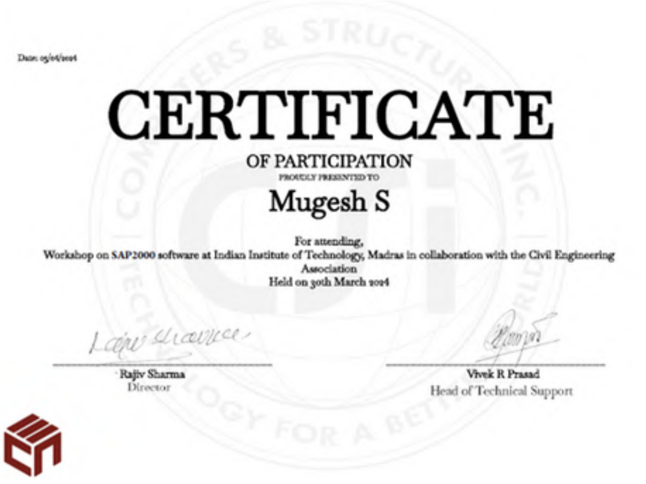
Date: 05/04/2024

CERTIFICATE
OF PARTICIPATION
PROUDLY PRESENTED TO
MAthavan P

For attending,
Workshop on SAP2000 software at Indian Institute of Technology, Madras in collaboration with the Civil Engineering Association
Held on 30th March 2024

Rajiv Sharma
Director

Vivek R Prasad
Head of Technical Support



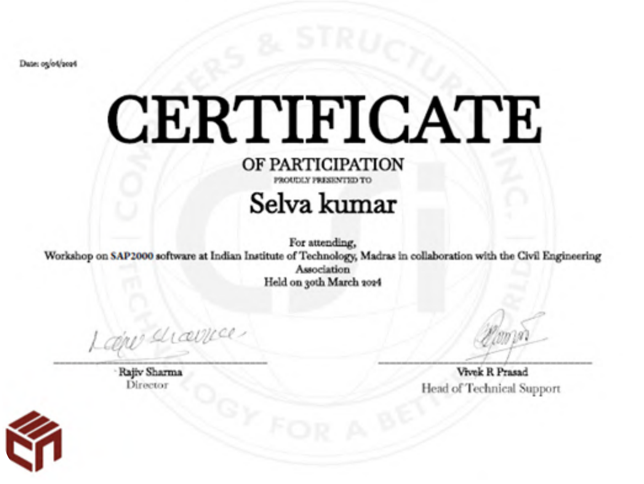
Date: 05/04/2024

CERTIFICATE
OF PARTICIPATION
PROUDLY PRESENTED TO
Mugesh S

For attending,
Workshop on SAP2000 software at Indian Institute of Technology, Madras in collaboration with the Civil Engineering Association
Held on 30th March 2024

Rajiv Sharma
Director

Vivek R Prasad
Head of Technical Support



Date: 05/04/2024

CERTIFICATE
OF PARTICIPATION
PROUDLY PRESENTED TO
Selva kumar

For attending,
Workshop on SAP2000 software at Indian Institute of Technology, Madras in collaboration with the Civil Engineering Association
Held on 30th March 2024

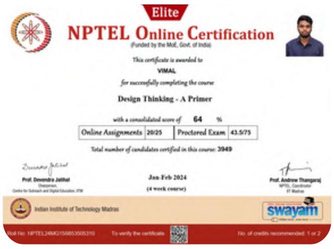
Rajiv Sharma
Director

Vivek R Prasad
Head of Technical Support

STUDENTS PARTICIPATION

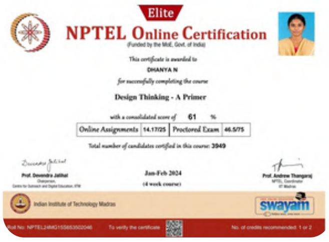
CIVIL

CERTIFICATIONS


Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
VIMAL
for successfully completing the course
Design Thinking - A Primer
with a consolidated score of 64 %

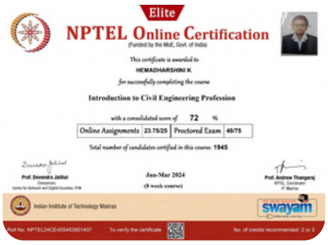
Online Assignments	20/25	Proctored Exam	43.5/75

Total number of candidates certified in this course: 3949
Prof. Devendra Jalihal
Jan-Feb 2024
(4 week course)
Prof. Andrew Thangaraj
Indian Institute of Technology Madras
To verify the certificate
No. of credits recommended: 1 or 2


Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
DHANYA N
for successfully completing the course
Design Thinking - A Primer
with a consolidated score of 61 %

Online Assignments	14.17/25	Proctored Exam	46.5/75

Total number of candidates certified in this course: 3949
Prof. Devendra Jalihal
Jan-Feb 2024
(4 week course)
Prof. Andrew Thangaraj
Indian Institute of Technology Madras
To verify the certificate
No. of credits recommended: 1 or 2


Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
HEMADHARSHINI K
for successfully completing the course
Introduction to Civil Engineering Profession
with a consolidated score of 72 %

Online Assignments	23.75/25	Proctored Exam	48/75

Total number of candidates certified in this course: 1945
Prof. Devendra Jalihal
Jan-Mar 2024
(8 week course)
Prof. Andrew Thangaraj
Indian Institute of Technology Madras
To verify the certificate
No. of credits recommended: 2 or 3

COURSE

Design Thinking – A primer

ELITE CERTIFICATION

Mr. A.S. Vimal – III Civil
Mr. C. Somesh – III Civil
Ms. S. Amirthavarshini – III Civil
Ms. A. S. Dishita – III Civil
Ms. N. Dhanya – II Civil

CERTIFICATION

Mr. P. A. Kishore – III Civil
Mr. B. Santhoshkumar – III Civil
Mr. A. Shenbagamoorthi – III Civil
Mr. M. Sankeerthan – III Civil
Ms. M. Shagana Shree – III Civil
Mr. V. Manikandan – III Civil
Mr. T. S. Dinesh kumar – II Civil
Mr. M. Sankar – II Civil
Mr. E. Tamil maran - II Civil

STUDENTS ONLINE CERTIFICATION

CIVIL

CERTIFICATIONS

"

NPTEL

COURSE

Introduction to Civil Engineering Profession

ELITE CERTIFICATION

Mr. S. Arulraj – II Civil
Mr. S. Gokul – II Civil
Ms. K. Hemadharshini – II Civil
Mr. M. Jayavarshan – II Civil
Ms. M. Kaviyanjali – II Civil
Mr. K. Mohan Raj – II Civil
Mr. S. Pandi Raja – II Civil
Mr. M. Perarasan – II Civil
Mr. Periyannan Vaithilingam – II Civil
Mr. M. S. Pradeesh – II Civil
Ms. R. Prathipa – II Civil
Mr. S. Santhosh – II Civil
Mr. K. Saranraj – II Civil
Ms. S. Sivaranjani – II Civil
Ms. J. Suha Mercy – II Civil
Mr. S. Surya Krishna – II Civil
Ms. S. Suryaragavi – II Civil
Mr. M. Sankar – II Civil
Ms. N. Dhanya – II Civil

CERTIFICATION

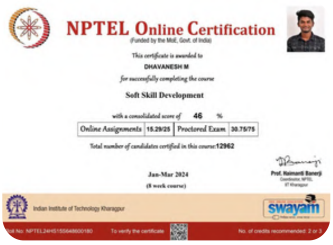
Mr. R. Adhithya – II Civil
Mr. S. Barani – II Civil
Mr. M. Karthick – II Civil
Mr. M. Kathirvel – II Civil
Mr. S. Krishnakanth – II Civil
Mr. M. Prasanna – II Civil
Mr. A. Tamilarasu – II Civil
Mr. T. S. Dinesh Kumar – II Civil

STUDENTS ONLINE CERTIFICATION

CIVIL

CERTIFICATIONS

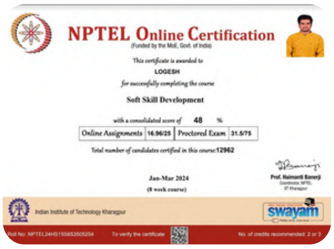
"



NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
DHAVANESH M
for successfully completing the course
Soft Skill Development
with a consolidated score of 46 %

Online Assignments	15.29/25	Proctored Exam	30.75/75

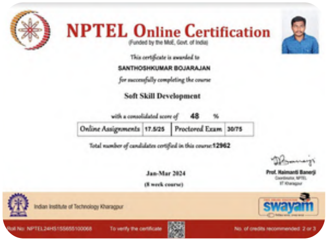
Total number of candidates certified in this course:12962
Jan-Mar 2024
(8 week course)
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur
Indian Institute of Technology Kharagpur
To verify the certificate
No. of credits recommended: 2 or 3



NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
LOGESH
for successfully completing the course
Soft Skill Development
with a consolidated score of 48 %

Online Assignments	16.96/25	Proctored Exam	31.5/75

Total number of candidates certified in this course:12962
Jan-Mar 2024
(8 week course)
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur
Indian Institute of Technology Kharagpur
To verify the certificate
No. of credits recommended: 2 or 3



NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
SANTHOSHKUMAR BOJARAJAN
for successfully completing the course
Soft Skill Development
with a consolidated score of 48 %

Online Assignments	17.5/25	Proctored Exam	30/75

Total number of candidates certified in this course:12962
Jan-Mar 2024
(8 week course)
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur
Indian Institute of Technology Kharagpur
To verify the certificate
No. of credits recommended: 2 or 3

COURSE

SOFT SKILL DEVELOPMENT

ELITE CERTIFICATION

Ms. R. Rithu Burniga – III Civil

CERTIFICATION

Mr. R. Deepak – III Civil
Mr. M. Dhavanesh – III Civil
Mr. Logesh – III Civil
Mr. S. Mugesh – III Civil
Mr. Santhoshkumar Bojarajan – III Civil
Mr. V. G. Dhanush – III Civil

STUDENTS ONLINE CERTIFICATION

CIVIL

PUBLICATION

Dr P Subashree, Associate Professor, Department of Civil Engineering, **published a paper titled "Unleashing the Flexural Behaviour of Ceramic Hybrid Rubber Reinforced Composites for Sustainable Industry"** in the Journal of Environmental Nanotechnology indexed in Scopus in the month of March 2024.

Doi: https://doi.org/10.13074/jent.2024.03.241509
Link: https://nanoient.org/journals/index.php/jent/article/view/1004

Research Article

Journal of Environmental Nanotechnology

Unleashing the Flexural Behavior of Ceramic Hybrid Rubber Reinforced Composites for Sustainable Industry

P. Subashree[1*], S. Vivek[2] and N. Muthukumaran[3]
[1]Department of Civil Engineering, Sri Krishna College of Technology, Coimbatore, TN, India
[2]Department of Civil Engineering, GMR Institute of Technology, Rajam, AP, India
[3]Department of Civil Engineering, V. S. B. College of Engineering Technical Campus, Coimbatore, TN, India
Received: 01.02.2024 Accepted: 27.03.2024 Published: 30.03.2024
*subashree.p@skct.edu.in

ABSTRACT

An innovative methodology is employed to explore the potential of repurposing floor ceramics and used tire rubber for fine aggregate. In contrast to one-way ordinary concrete slabs, the behavior of Ceramic Hybrid Rubber Reinforced Composite Slabs (CHRRCS) under pure bending has been thoroughly examined. There is no discernible negative effect of the quantity of ceramic floor tiles on the characteristics of concrete. In this study, M30 concrete with a water-to-cement ratio of 0.38 is employed. The distribution reinforcement was made up of bars with an 8 mm diameter, while the main reinforcement was made up of 10 mm diameter Fe 415 grade steel bars. The CHRRCS with 2% rubber fibers, 10% replacement ceramic, and 10% pre-treated crumb rubber exhibit more significant deflection only under extreme stress conditions. Apart from the experimental study, ABAQUS was used to perform a finite element model in three-dimensional simulation and analyze the load-displacement behavior. The comparison of ABAQUS simulation and experimental data yields a fair range. The flexural performance of CHRRCS is enhanced in pure bending.

Keywords: Ceramic; Hybrid rubber reinforced composite slabs; Flexural strength; One-way slab; Crumb rubber.

1. INTRODUCTION

Repurposing ceramic tiles and used rubber tires as aggregates offers sustainable solutions for construction. These materials, when processed and combined, provide durable and environmentally friendly alternatives for various applications. By diverting waste from landfills and reducing the demand for virgin resources, such initiatives promote eco-conscious building practices (Zamora *et al.* 2021). Concrete with a 30% replacement of waste ceramic particles has high axial strength (Awoyera *et al.* 2016). Kim *et al.* (2015) concentrated on pozzolanic filler in concrete made of old ceramic tiles. Vejmelkova *et al.* (2012) substituted concrete samples with ceramic floor tiles to varied degrees (10%, 20%, 30%, and 40%). When water absorption and compressive strength were tested with a 20% increase in ceramic floor tiles, no discernible negative effects on concrete's compressive strength were seen (Rashid *et al.* 2017).

One of the most persistent environmental problems (EPA, 1991) in the world is rubber waste from tires. Not only are old tires disposed of, but also additional garbage from car manufacturers (Camille *et al.* 2013). Many governments have banned the dumping of waste tire rubber in landfills due to the ongoing shortage of accessible disposal sites. In order to stop this depletion and develop suitable waste tire disposal methods, much research has been conducted. The energy-absorbing, flexible, lightweight, heat- and sound-absorbing qualities of recycled tire materials make them highly desirable in the construction sector (Ganesan *et al.* 2012). The usage of discarded tires in civil engineering is now relatively limited since there are few products that employ recycled tires that are used in large quantities (El-Gammal *et al.* 2010). Sara (2010) conducted engineering-related tests to identify the ideal types and amounts of aggregate for different concrete compositions. The results show that one practical way to reduce weight in some technological goods is to add rubber aggregates made from used tires to concrete (Eldin and Senouci, 1993). Despite a number of drawbacks, such as a notable decrease in compressive strengths and a rise in air content and water consumption, the trials demonstrate that rubber provides a mix with unique properties that may be advantageous in the field of construction.

2. MATERIALS & METHODS

2.1 Bending Test on HRRCS Slabs

2.1.1 Details of slabs

As part of the experimental investigation, 18 supported rectangular slabs with dimensions of 1000 mm × 450 mm × 60 mm were examined for one-way slabs (OWS). Ceramic Hybrid Rubber Reinforced Composite Slabs (CHRRCS) and Ordinary Reinforced Concrete Slabs (ORCS) were the two primary categories of slabs.

J. Environ. Nanotechnol., Vol. 13(1), 78-84 (2024)
https://doi.org/10.13074/jent.2024.03.241509

FACULTY PUBLICATION

CIVIL

PUBLICATION

Ms N Jothi Lakshmi, Assistant Professor, Department of Civil Engineering, **published a paper titled "Combustion Analysis of Solid Biomass Derived from Turmeric and Onion, using Nanoclay as a Binding Material, for a Sustainable Environment"** in the Journal of Environmental Nanotechnology indexed in Scopus in the month of March 2024.

Doi: https://doi.org/10.13074/jent.2024.03.241496
Link: https://nanoient.org/journals/index.php/jent/article/view/982

Research Article

Journal of Environmental Nanotechnology

Combustion Analysis of Solid Biomass Derived from Turmeric and Onion, using Nanoclay as a Binding Material, for a Sustainable Environment

P. Eswaramoorthi[1], S. Suthaviji[2], S. Manoj[3], N. Jothi Lakshmi[4] and V. Sampathkumar[3]*
[1]Department of Civil Engineering, Builders Engineering College, Kangeyam, Tiruppur, TN, India
[2]Department of Civil Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi, Coimbatore, TN, India
[3]Department of Civil Engineering, Kongu Engineering College, Erode, TN, India
[4]Department of Civil Engineering, Sri Krishna College of Technology, Coimbatore, TN, India
Received: 12.01.2023 Accepted: 10.03.2024 Published: 30.03.2024
*anbusampathcivil@gmail.com

ABSTRACT

The usage of fossil resources has promoted wealth accumulation, exacerbated the negative effects of climate change from GHG emissions, and jeopardized human safety. This research focuses on the utilization of locally generated waste from Turmeric Wastes (TW) and Onion Wastes (TW) for the production of biomass briquettes, employing 10% nanoclay powder as a binder. The biomass waste mixtures were prepared at different ratios, namely 0:100 (C1), 30:70 (C2), 60:40 (C3), 90:10 (C4) and 100:0 (C5), with a constant binder concentration. Densification can be used to turn these residues into elevated, fuel-efficient biomass feedstock. Analysis was carried out for wet content, content of volatile matter and content of fixed carbon. SEM evaluations with EDAX studies were done to identify the major elements available in the produced Turmeric waste - Onion waste briquettes. TGA and DSC investigation implicated the recognition of the burning stage of exothermic and endothermic peaks of the produced briquettes. The briquettes generated exhibit a range of total calorific values, spanning from 11.66 to 15.64 MJ/kg. Notably, these briquettes demonstrate an ignition time within the range of 3.3 to 4.0 seconds and a sustained burning duration lasting between 20 to 28 minutes. Consequently, the utilization of TW-OW in combination with 20% nanoclay binder presents a viable alternative energy source. This is attributable to the briquettes' commendable characteristics, including low moisture and ash content, coupled with a notably high calorific value.

Keywords: Nanoclay binder; Environment sustainability; Densification; Waste to wealth; Energy.

1. INTRODUCTION

The increase in energy demand can be ascribed to the growing population and also a major increase in residential and retail activity around the world (Adeleke *et al.* 2019). Liquid fuels, coal, oil and gas, and other fossil fuels are the major energy sources, accounting for over 80% of worldwide energy requirements (Afra *et al.* 2020). Briquettes made from biomass are powerful enough to compete, with free biomass, allowing easier transport and storage (Balraj *et al.* 2020). It could be transferred over greater distances with reliable energy storage choices while maintaining adequate size and density. In terms of cost, biomass briquettes were inexpensive to purchase, load, and unload (Bhagwanrao and Singaravelu, 2014). Combustion, gasification, and pyrolysis are examples of thermochemical conversion methods that use briquettes (Bhuvaneshwari *et al.* 2019). However, because of its low prices and great reliability, ignition is now the most advanced and commonly utilized technology for such applications (Blessymol *et al.* 2023). After the biomass was molded into compact briquettes, studies indicated that the burning characteristics improved by 20%, and the natural greenhouse effect, NOx, and SO_2 emissions were only one-ninth, one-fifth, and one-tenth of coal (Carraro *et al.* 2019). Solid fuels are used to generate power and heat in both the home and the workplace. Biomass-based alternative source is one of the few demonstrated, cost-effective, and easily accessible solutions for reducing emissions of carbon dioxide (Cavallo and Pampuro, 2017). Biomass briquette manufacturing and usage are deemed environmentally responsible if they meet a set of environmental sustainability parameters, which are divided into four general categories: land usage, water and air quality, earth and wildlife conservation, and carbon stock protection (Debdoubi *et al.* 2005). The goal of this study is to examine biomass briquetting technology as a sustainable bioenergy production method, with a focus on renewable sources, briquetting procedures, technological evaluation, and financial consequences. Several types of biomass materials have been studied; some in combination with non-biomass components used in briquetting. Briquette quality is determined by the raw ingredients used and the briquetting procedure used. Good ignition, durability and stability in handling and storage, and environmental safety when combusted are the desirable properties for briquettes as a fuel (Efomah

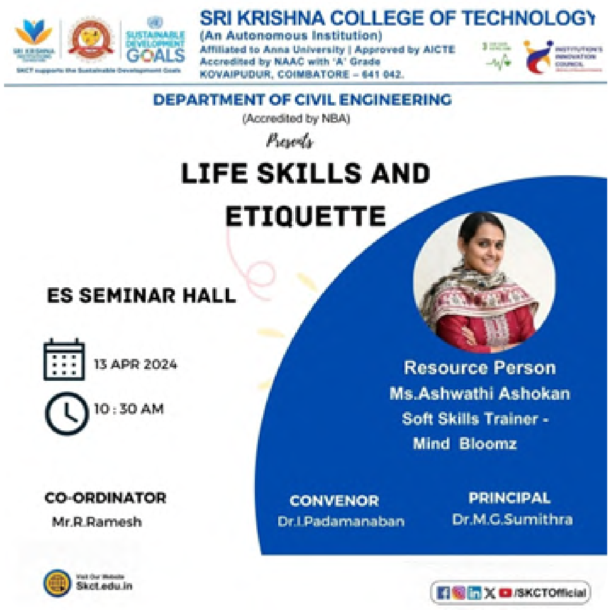
FACULTY PUBLICATION

CIVIL

EVENT

The Department of Civil Engineering of Sri Krishna College of Technology conducted a seminar on **"Life Skills and Etiquette"** on 13 April 2024.

Resource Person: Ms. Ashwathi Ashokan, Soft Skill Trainer- Mind Bloomz, Coimbatore.



SRI KRISHNA COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Affiliated to Anna University | Approved by AICTE
Accredited by NAAC with 'A' Grade
KOVAIPUDUR, COIMBATORE – 641 042.

DEPARTMENT OF CIVIL ENGINEERING
(Accredited by NBA)
Presents

LIFE SKILLS AND ETIQUETTE

ES SEMINAR HALL

13 APR 2024
10 : 30 AM

Resource Person
Ms.Ashwathi Ashokan
Soft Skills Trainer - Mind Bloomz

CO-ORDINATOR
Mr.R.Ramesh

CONVENOR
Dr.I.Padamanaban

PRINCIPAL
Dr.M.G.Sumithra

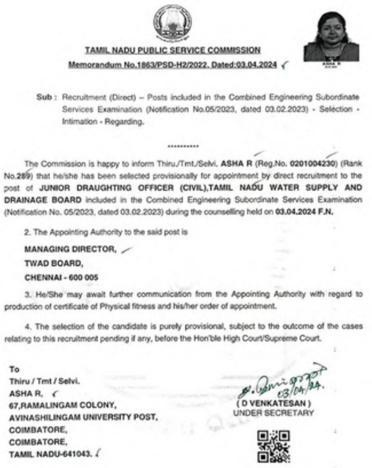
Visit Our Website Skct.edu.in

/SKCTOfficial

EVENT ORGANIZED

CIVIL

ALUMNI



TAMIL NADU PUBLIC SERVICE COMMISSION
Memorandum No.1863/PSD-H2/2022, Dated:03.04.2024

Sub : Recruitment (Direct) – Posts included in the Combined Engineering Subordinate Services Examination (Notification No.05/2023, dated 03.02.2023) - Selection - Intimation - Regarding.

....

The Commission is happy to inform Thiru./Tmt./Selvi. **ASHA R** (Reg.No. **0201004230**) (Rank No.289) that he/she has been selected provisionally for appointment by direct recruitment to the post of **JUNIOR DRAUGHTING OFFICER (CIVIL),TAMIL NADU WATER SUPPLY AND DRAINAGE BOARD** included in the Combined Engineering Subordinate Services Examination (Notification No. 05/2023, dated 03.02.2023) during the counselling held on **03.04.2024 F.N.**

2. The Appointing Authority to the said post is

MANAGING DIRECTOR,
TWAD BOARD,
CHENNAI - 600 005

3. He/She may await further communication from the Appointing Authority with regard to production of certificate of Physical fitness and his/her order of appointment.

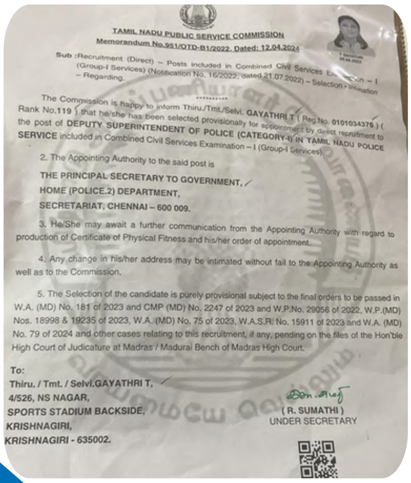
4. The selection of the candidate is purely provisional, subject to the outcome of the cases relating to this recruitment pending if any, before the Hon'ble High Court/Supreme Court.

To
Thiru / Tmt / Selvi.
ASHA R,
67,RAMALINGAM COLONY,
AVINASHILINGAM UNIVERSITY POST,
COIMBATORE,
COIMBATORE,
TAMIL NADU-641043.

03/04/24.
(D VENKATESAN)
UNDER SECRETARY

Ms R Asha, Batch 2013-2017 has been appointed as Junior Draughting Officer in Tamil Nadu Water Supply and Drainage Board (TWAD) on April 03, 2024.

ALUMNI CORNER



TAMIL NADU PUBLIC SERVICE COMMISSION
Memorandum No.951/OTD-B1/2022, Dated: 12.04.2024

Sub : Recruitment (Direct) – Posts included in Combined Civil Services Examination – I (Group-I Services) (Notification No. 16/2022, dated 21.07.2022) – Selection - Intimation – Regarding.

....

The Commission is happy to inform Thiru./Tmt./Selvi. **GAYATHRI T** (Reg.No. **0101034376**) (Rank No.**119**) that he/she has been selected provisionally for appointment by direct recruitment to the post of **DEPUTY SUPERINTENDENT OF POLICE (CATEGORY-I) IN TAMIL NADU POLICE SERVICE** included in Combined Civil Services Examination – I (Group-I Services).

2. The Appointing Authority to the said post is

THE PRINCIPAL SECRETARY TO GOVERNMENT,
HOME (POLICE.2) DEPARTMENT,
SECRETARIAT, CHENNAI – 600 009.

3. He/She may await a further communication from the Appointing Authority with regard to production of Certificate of Physical Fitness and his/her order of appointment.

4. Any change in his/her address may be intimated without fail to the Appointing Authority as well as to the Commission.

5. The Selection of the candidate is purely provisional subject to the final orders to be passed in W.A. (MD) No. 181 of 2023 and CMP (MD) No. 2247 of 2023 and W.P.No. 29056 of 2022, W.P.(MD) Nos. 18998 & 19235 of 2023, W.A. (MD) No. 75 of 2023, W.A.S.R. No. 15911 of 2023 and W.A. (MD) No. 79 of 2024 and other cases relating to this recruitment, if any, pending on the files of the Hon'ble High Court of Judicature at Madras / Madurai Bench of Madras High Court.

To:
Thiru. / Tmt. / Selvi.GAYATHRI T,
4/526, NS NAGAR,
SPORTS STADIUM BACKSIDE,
KRISHNAGIRI,
KRISHNAGIRI - 635002.

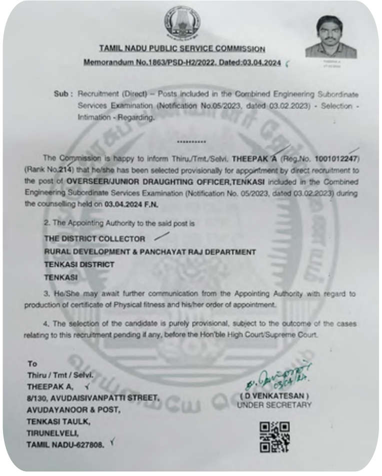
(R. SUMATHI)
UNDER SECRETARY

Ms T Gayathri, Batch 2020 has been appointed as Deputy Superintendent of Police in Tamil Nadu Police Service.

ALUMNI CORNER

CIVIL

ALUMNI



TAMIL NADU PUBLIC SERVICE COMMISSION

Memorandum No.1863/PSD-H2/2022, Dated:03.04.2024

Sub : Recruitment (Direct) – Posts included in the Combined Engineering Subordinate Services Examination (Notification No.05/2023, dated 03.02.2023) - Selection - Intimation - Regarding.

....

The Commission is happy to inform Thiru./Tmt./Selvi. **THEEPAK A** (Reg.No. **1001012247**) (Rank No.**214**) that he/she has been selected provisionally for appointment by direct recruitment to the post of **OVERSEER/JUNIOR DRAUGHTING OFFICER,TENKASI** included in the Combined Engineering Subordinate Services Examination (Notification No. 05/2023, dated 03.02.2023) during the counselling held on **03.04.2024 F.N.**

2. The Appointing Authority to the said post is

THE DISTRICT COLLECTOR
RURAL DEVELOPMENT & PANCHAYAT RAJ DEPARTMENT
TENKASI DISTRICT
TENKASI

3. He/She may await further communication from the Appointing Authority with regard to production of certificate of Physical fitness and his/her order of appointment.

4. The selection of the candidate is purely provisional, subject to the outcome of the cases relating to this recruitment pending if any, before the Hon'ble High Court/Supreme Court.

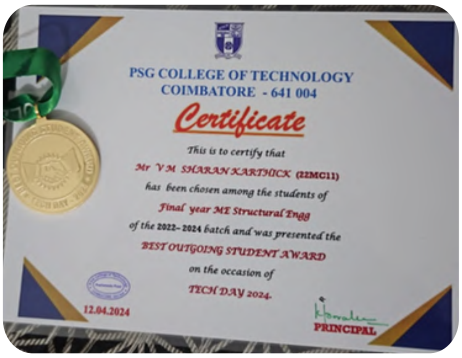
To
Thiru / Tmt / Selvi.
THEEPAK A,
8/130, AVUDAISIVANPATTI STREET,
AVUDAYANOOR & POST,
TENKASI TAULK,
TIRUNELVELI,
TAMIL NADU-627808.

03/04/24
(D VENKATESAN)
UNDER SECRETARY

Mr A Theepak, Batch 2015-2019 has been appointed as Overseer/Junior Draughting Officer in the Rural Development & Panchayat Raj Department on April 03, 2024.

ALUMNI CORNER

Mr V M Sharan Karthick, Batch 2018-2022 has been selected as the Best Outgoing Student of Structural Engineering Programme at PSG College of Technology, Coimbatore during Tech Day 2024.



PSG COLLEGE OF TECHNOLOGY
COIMBATORE - 641 004
Certificate
This is to certify that
Mr V M SHARAN KARTHICK (22MC11)
has been chosen among the students of
Final year ME Structural Engg
of the 2022-2024 batch and was presented the
BEST OUTGOING STUDENT AWARD
on the occasion of
TECH DAY 2024.
12.04.2024
PRINCIPAL

ALUMNI CORNER

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATIONS

Mr Krishnan K of II CSE B secured the second place in "TECH TUSSLE "with cash prize of Rs. 1000/- in an event organised by the Department of Information Technology, Sri Ramakrishna Engineering College on 26 March 2023.

GPS Map Camera
Coimbatore,TN,India
Vattamalaipalayam, Coimbatore, 641022, TN, India
Lat 11.101177, Long 76.966027
03/26/2024 13:47 GMT+05:30
Note : Captured by GPS Map Camera

Mr Mohammed Ibrahim H of II CSE B secured the third place in "TECH TUSSLE" with a cash prize of Rs. 700/- in an event organised by the Department of Information Technology, Sri Ramakrishna Engineering College on 26 March 2023.

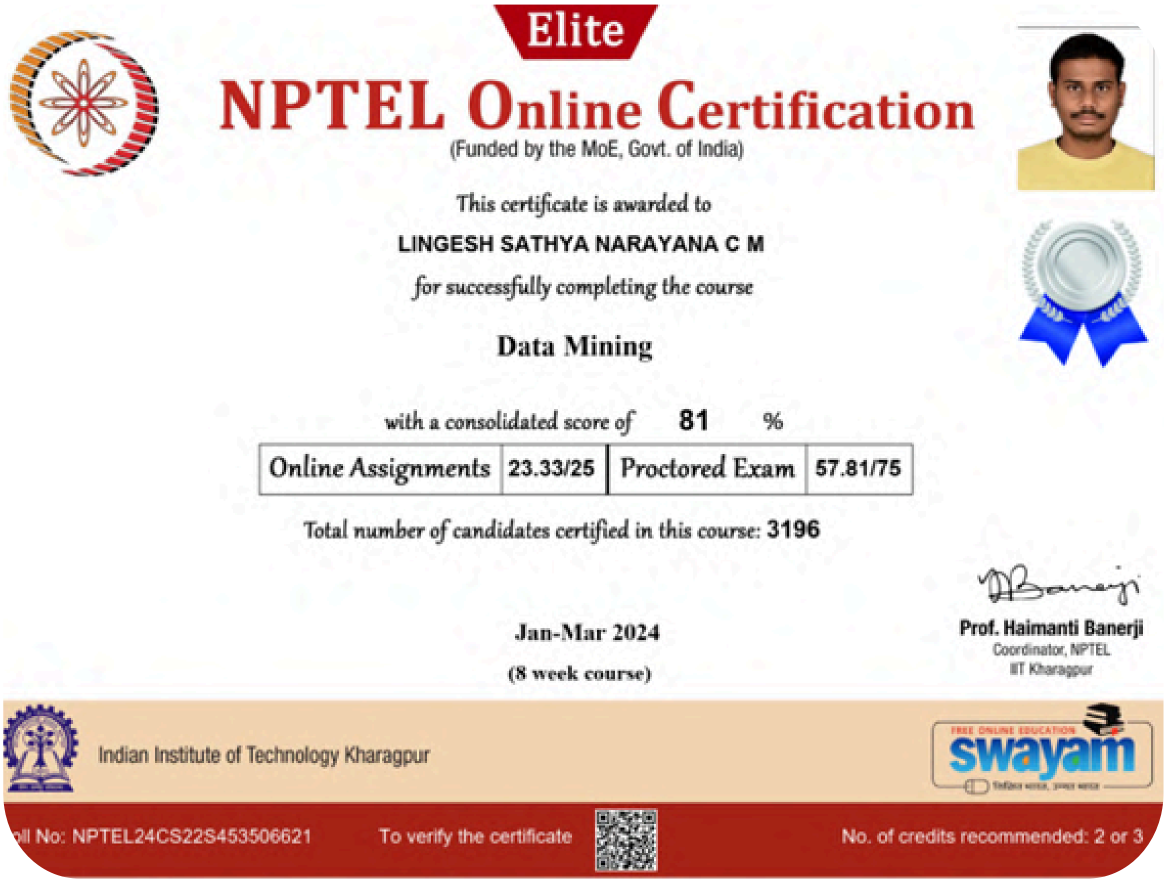
GPS Map Camera
Coimbatore,TN,India
Vattamalaipalayam, Coimbatore, 641022, TN, India
Lat 11.101367, Long 76.966090
03/26/2024 13:46 GMT+05:30
Note : Captured by GPS Map Camera

STUDENTS ACHIEVEMENT

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION

Mr Lingesh Sathya Narayana of II B.E. CSE B completed Data Mining Course **with 80%.**



Elite

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

This certificate is awarded to

LINGESH SATHYA NARAYANA C M

for successfully completing the course

Data Mining

with a consolidated score of 81 %

Online Assignments	23.33/25	Proctored Exam	57.81/75

Total number of candidates certified in this course: 3196

Jan-Mar 2024
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

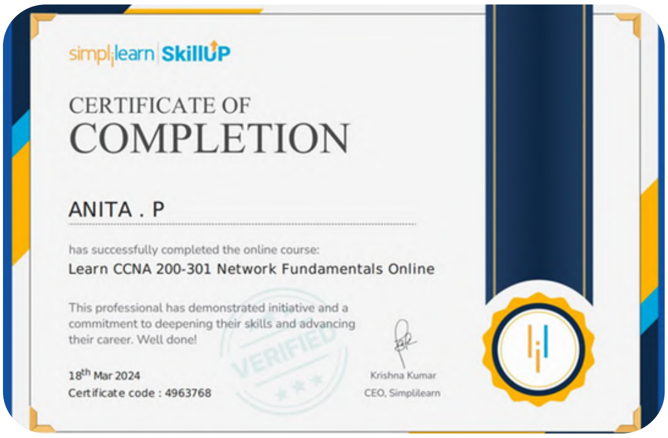
oll No: NPTEL24CS22S453506621 To verify the certificate No. of credits recommended: 2 or 3

STUDENT PARTICIPATION

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION

Ms Anita of II CSE completed a course on **“Learn CCNA 200-301 Network Fundamentals Online.”**



simplilearn | SkillUP

CERTIFICATE OF
COMPLETION

ANITA . P

has successfully completed the online course:
Learn CCNA 200-301 Network Fundamentals Online

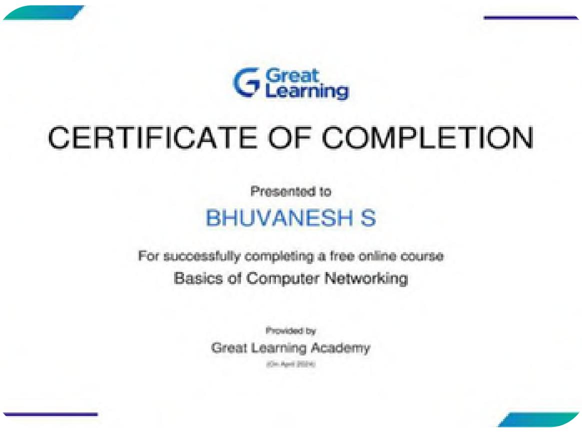
This professional has demonstrated initiative and a commitment to deepening their skills and advancing their career. Well done!

18th Mar 2024
Certificate code : 4963768

VERIFIED

Krishna Kumar
CEO, Simplilearn

STUDENT CERTIFICATION



Great Learning

CERTIFICATE OF COMPLETION

Presented to
BHUVANESH S

For successfully completing a free online course
Basics of Computer Networking

Provided by
Great Learning Academy

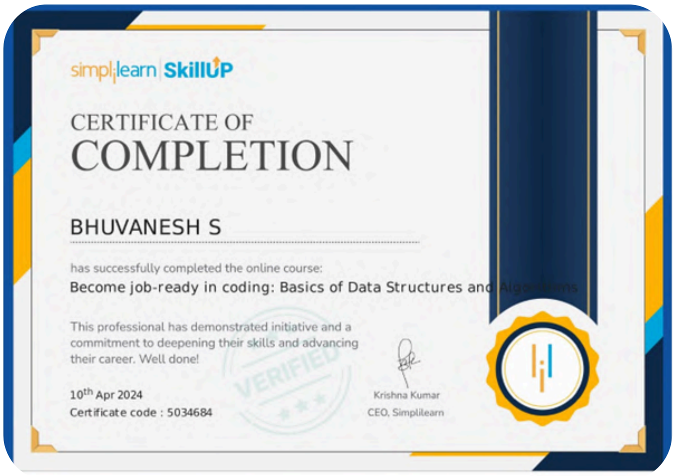
Mr Bhuvanesh of II CSE completed a course on **“Basics of Computer Networking.”**

STUDENT CERTIFICATION

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION

Mr Bhuvanesh of II CSE completed a course on **"Become Job-ready in Coding."**



simplilearn | SkillUP

CERTIFICATE OF
COMPLETION

BHUVANESH S

has successfully completed the online course:
Become job-ready in coding: Basics of Data Structures and Algorithms

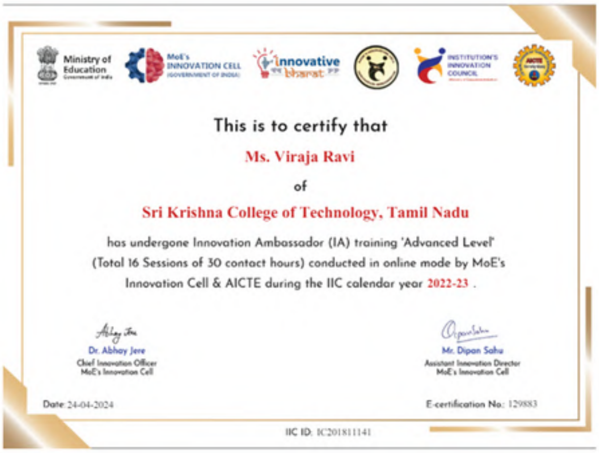
This professional has demonstrated initiative and a commitment to deepening their skills and advancing their career. Well done!

10th Apr 2024
Certificate code : 5034684

Krishna Kumar
CEO, Simplilearn

VERIFIED

STUDENT CERTIFICATION



Ministry of Education
Government of India
MoE's INNOVATION CELL (GOVERNMENT OF INDIA)
Innovative Bharat
INSTITUTION'S INNOVATION COUNCIL

This is to certify that

Ms. Viraja Ravi

of

Sri Krishna College of Technology, Tamil Nadu

has undergone Innovation Ambassador (IA) training 'Advanced Level' (Total 16 Sessions of 30 contact hours) conducted in online mode by MoE's Innovation Cell & AICTE during the IIC calendar year 2022-23 .

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

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

Date: 24-04-2024

E-certification No.: 129883

IIC ID: IC201811141

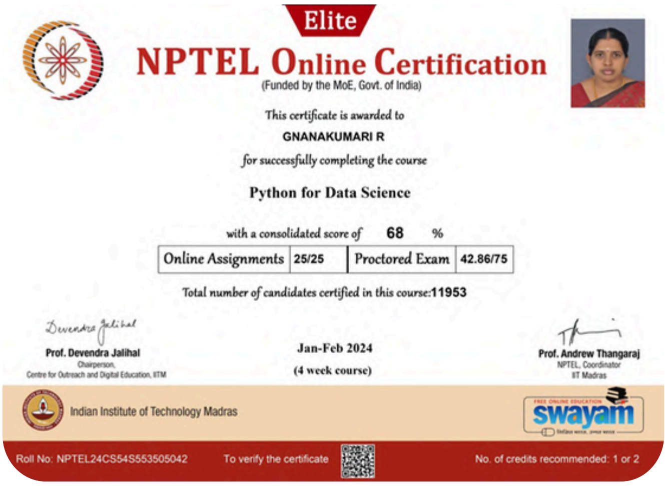
Ms Viraja Ravi AP/CSE completed **IIC Innovation Ambassador Training** (Advanced Level) offered by MOE's Innovation Cell and AICTE.

FACULTY CERTIFICATION

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION

Ms R Gnanakumari, Assistant Professor, Department of CSE **completed NPTEL course on "Python for Data Science" with grade "Elite. "**



Elite

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

This certificate is awarded to

GNANAKUMARI R

for successfully completing the course

Python for Data Science

with a consolidated score of 68 %

Online Assignments	25/25	Proctored Exam	42.86/75

Total number of candidates certified in this course:11953

Devendra Jalihal
Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

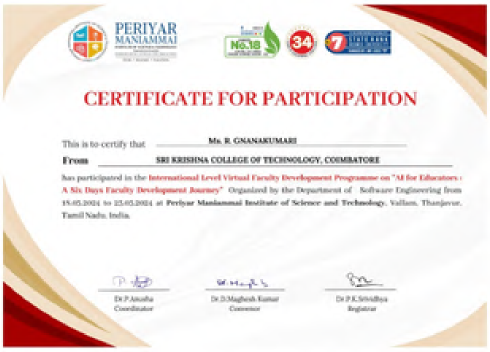
Jan-Feb 2024
(4 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

Roll No: NPTEL24CS54S553505042 To verify the certificate No. of credits recommended: 1 or 2

FACULTY CERTIFICATION



CERTIFICATE FOR PARTICIPATION

This is to certify that Ms. R. GNANAKUMARI
From SRI KRISHNA COLLEGE OF TECHNOLOGY, COIMBATORE
has participated in the International Level Virtual Faculty Development Programme on "AI for Educators : A Six Days Faculty Development Journey" Organized by the Department of Software Engineering from 18.03.2024 to 23.03.2024 at Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, Tamil Nadu, India.

Dr.P.Amudha
Coordinator

Dr.D.Magesh Kumar
Convenor

Dr.P.K.Srividhya
Registrar

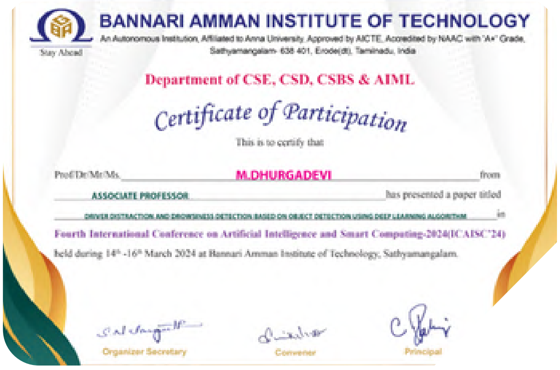
Ms R Gnanakumari, Assistant Professor, attended a six day International level Virtual Faculty Development Programme on "AI for Educators" during 18 March - 23 April 2024, organized by **Periyar Maniammai Institute of Science and Technology.**

FACULTY CERTIFICATION

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION

Dr M Dhurgadevi of CSE department **presented a paper in an International Conference on Artificial Intelligence and Smart Computing-2024** during 14-16 March 2024 in Bannari Amman Institute of Technology, Sathyamangalam.



BANNARI AMMAN INSTITUTE OF TECHNOLOGY
An Autonomous Institution, Affiliated to Anna University, Approved by AICTE, Accredited by NAAC with "A+" Grade,
Sathyamangalam- 638 401, Erode(dt), Tamilnadu, India
Stay Ahead

Department of CSE, CSD, CSBS & AIML

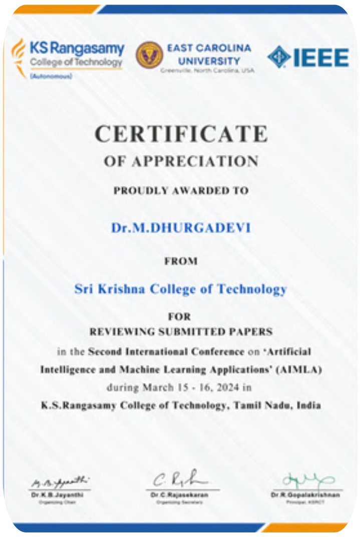
Certificate of Participation

This is to certify that

Prof/Dr/Mr/Ms. M.DHURGADEVI from ASSOCIATE PROFESSOR has presented a paper titled DRIVER DISTRACTION AND DROWSINESS DETECTION BASED ON OBJECT DETECTION USING DEEP LEARNING ALGORITHM in Fourth International Conference on Artificial Intelligence and Smart Computing-2024(ICAISC'24) held during 14th -16th March 2024 at Bannari Amman Institute of Technology, Sathyamangalam.

Organizer Secretary
Convener
Principal

FACULTY PARTICIPATION



KS Rangasamy College of Technology (Autonomous)
EAST CAROLINA UNIVERSITY Greenville, North Carolina, USA
IEEE

CERTIFICATE
OF APPRECIATION
PROUDLY AWARDED TO
Dr.M.DHURGADEVI
FROM
Sri Krishna College of Technology
FOR
REVIEWING SUBMITTED PAPERS
in the Second International Conference on 'Artificial Intelligence and Machine Learning Applications' (AIMLA) during March 15 - 16, 2024 in K.S.Rangasamy College of Technology, Tamil Nadu, India

Dr.K.B.Jayanthi
Organising Chair

Dr.C.Rajasekaran
Organising Secretary

Dr.R.Gopalakrishnan
Principal, KSRCT

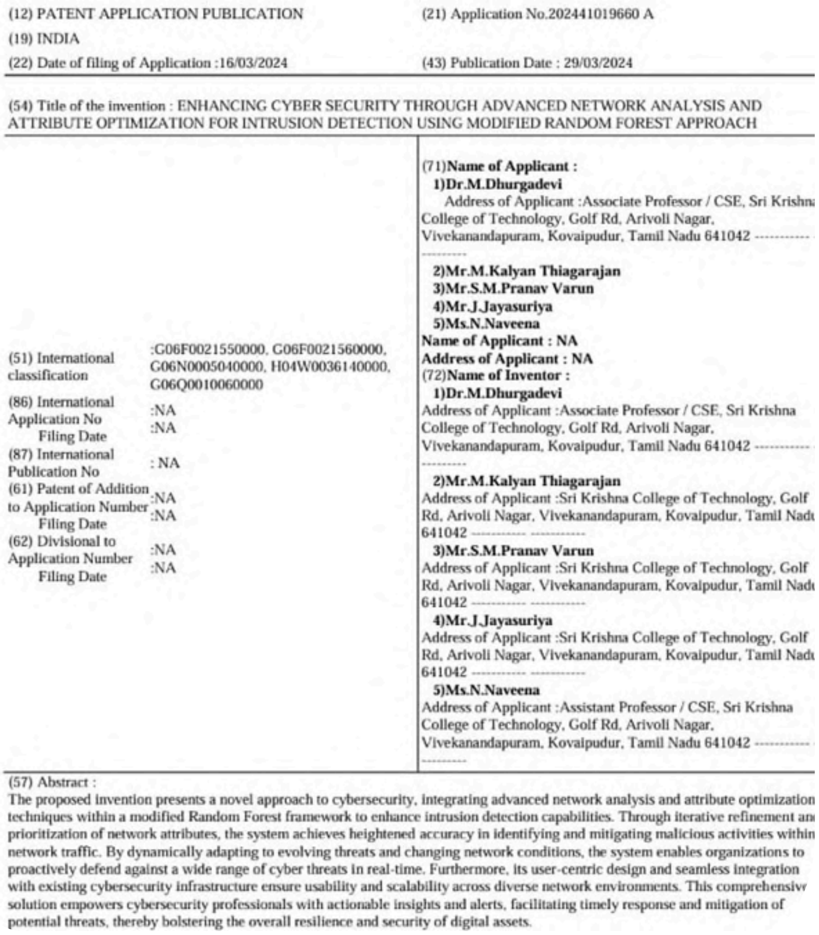
Dr M Dhurgadevi acted as a reviewer for an international conference on Artificial Intelligence and Machine Learning Applications during 15-16 March 2024 **in K. S. Rangasamy College of Technology.**

FACULTY ACHEIVEMENT

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION

Dr M Dhurgadevi along with the Students of Final Year published a patent titled **"Enhancing cybersecurity through advanced network analysis and attribute optimization for intrusion detection using random forest approach"** on 29 March 2024.



(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2024

(21) Application No.202441019660 A
(43) Publication Date : 29/03/2024

(54) Title of the invention : ENHANCING CYBER SECURITY THROUGH ADVANCED NETWORK ANALYSIS AND ATTRIBUTE OPTIMIZATION FOR INTRUSION DETECTION USING MODIFIED RANDOM FOREST APPROACH

(51) International classification	:G06F0021550000, G06F0021560000, G06N0005040000, H04W0036140000, G06Q0010060000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)Dr.M.Dhurgadevi
Address of Applicant :Associate Professor / CSE, Sri Krishn
College of Technology, Golf Rd, Arivoli Nagar,
Vivekanandapuram, Kovaipudur, Tamil Nadu 641042 -----------
----
2)Mr.M.Kalyan Thiagarajan
3)Mr.S.M.Pranav Varun
4)Mr.J.Jayasuriya
5)Ms.N.Naveena
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr.M.Dhurgadevi
Address of Applicant :Associate Professor / CSE, Sri Krishna
College of Technology, Golf Rd, Arivoli Nagar,
Vivekanandapuram, Kovaipudur, Tamil Nadu 641042 -----------
----
2)Mr.M.Kalyan Thiagarajan
Address of Applicant :Sri Krishna College of Technology, Golf
Rd, Arivoli Nagar, Vivekanandapuram, Kovaipudur, Tamil Nad
641042 ----------- -----------
3)Mr.S.M.Pranav Varun
Address of Applicant :Sri Krishna College of Technology, Golf
Rd, Arivoli Nagar, Vivekanandapuram, Kovaipudur, Tamil Nad
641042 ----------- -----------
4)Mr.J.Jayasuriya
Address of Applicant :Sri Krishna College of Technology, Golf
Rd, Arivoli Nagar, Vivekanandapuram, Kovaipudur, Tamil Nad
641042 ----------- -----------
5)Ms.N.Naveena
Address of Applicant :Assistant Professor / CSE, Sri Krishna
College of Technology, Golf Rd, Arivoli Nagar,
Vivekanandapuram, Kovaipudur, Tamil Nadu 641042 -----------
----

(57) Abstract :

The proposed invention presents a novel approach to cybersecurity, integrating advanced network analysis and attribute optimization techniques within a modified Random Forest framework to enhance intrusion detection capabilities. Through iterative refinement an prioritization of network attributes, the system achieves heightened accuracy in identifying and mitigating malicious activities within network traffic. By dynamically adapting to evolving threats and changing network conditions, the system enables organizations to proactively defend against a wide range of cyber threats in real-time. Furthermore, its user-centric design and seamless integration with existing cybersecurity infrastructure ensure usability and scalability across diverse network environments. This comprehensiv solution empowers cybersecurity professionals with actionable insights and alerts, facilitating timely response and mitigation of potential threats, thereby bolstering the overall resilience and security of digital assets.

FACULTY PUBLICATION/GRANTS/AWARDS/ACHIEVEMENTS

COMPUTER SCIENCE AND ENGINEERING

CERTIFICATIONS

Dr R Vidhya, Professor & Head, Ms G Sandhya, Asst. Professor, Mr T Kapil, Mr J B Jayadev, Mr R Jude Rachan and Ms J Kousalya, Final year students published an article entitled **"Effective Deep Learning Model to Diagnose Plant Disease and Identify the Location of the Spread"** in the International Journal of Applied Engineering and Technology on 11 April 2024.

International Journal of Applied Engineering & Technology

EFFECTIVE DEEP LEARNING MODEL TO DIAGNOSE PLANT DISEASE AND IDENTIFY THE LOCATION OF THE SPREAD

Ms. Vidhya R[1] and Ms. G Sandhya[2]

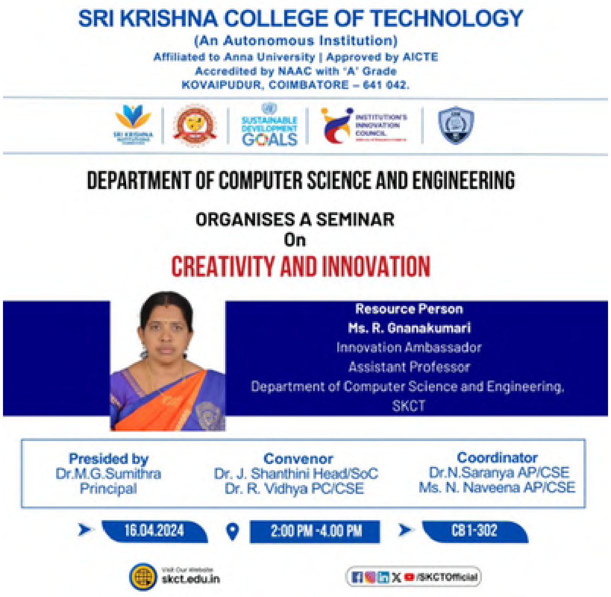
ABSTRACT

1. INTRODUCTION

FACULTY PUBLICATION/GRANTS/AWARDS/ACHIEVEMENTS

COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering organized a **seminar on Creativity and Innovation** by Ms R Gnanakumari, AP/CSE - the Innovation Ambassador.



SRI KRISHNA COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Affiliated to Anna University | Approved by AICTE
Accredited by NAAC with 'A' Grade
KOVAIPUDUR, COIMBATORE – 641 042.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ORGANISES A SEMINAR
On
CREATIVITY AND INNOVATION

Resource Person
Ms. R. Gnanakumari
Innovation Ambassador
Assistant Professor
Department of Computer Science and Engineering,
SKCT

Presided by
Dr.M.G.Sumithra
Principal

Convenor
Dr. J. Shanthini Head/SoC
Dr. R. Vidhya PC/CSE

Coordinator
Dr.N.Saranya AP/CSE
Ms. N. Naveena AP/CSE

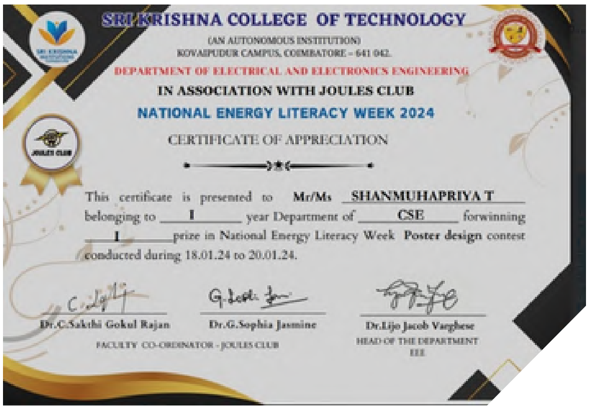
16.04.2024
2:00 PM -4.00 PM
CB1-302

skct.edu.in
/SKCTOfficial

EVENT ORGANIZED

SCIENCE AND HUMANITIES

Ms Shanmugapriya T, First B.E. CSE secured the **First Prize** in **a course on National Energy Literary Work Poster Design** conductedd during 18-20 April 2024.



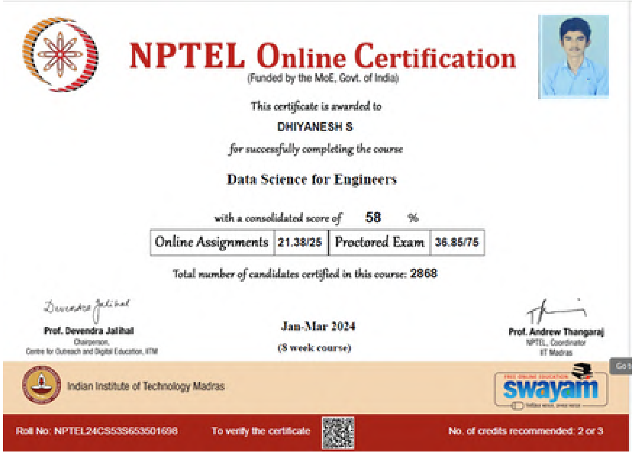
SRI KRISHNA COLLEGE OF TECHNOLOGY
(AN AUTONOMOUS INSTITUTION)
KOVAIPUDUR CAMPUS, COIMBATORE – 641 042.
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
IN ASSOCIATION WITH JOULES CLUB
NATIONAL ENERGY LITERACY WEEK 2024
CERTIFICATE OF APPRECIATION

This certificate is presented to Mr/Ms SHANMUHAPRIYA T belonging to I year Department of CSE forwinning I prize in National Energy Literacy Week Poster design contest conducted during 18.01.24 to 20.01.24.

Dr.C.Sakthi Gokul Rajan
Dr.G.Sophia Jasmine
FACULTY CO-ORDINATOR - JOULES CLUB

Dr.Lijo Jacob Varghese
HEAD OF THE DEPARTMENT
EEE

STUDENT ACHIEVEMENT



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

This certificate is awarded to
DHIYANESH S
for successfully completing the course
Data Science for Engineers

with a consolidated score of 58 %

Online Assignments	21.38/25	Proctored Exam	36.85/75

Total number of candidates certified in this course: 2868

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Mar 2024
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL24CS53S653501698 To verify the certificate No. of credits recommended: 2 or 3

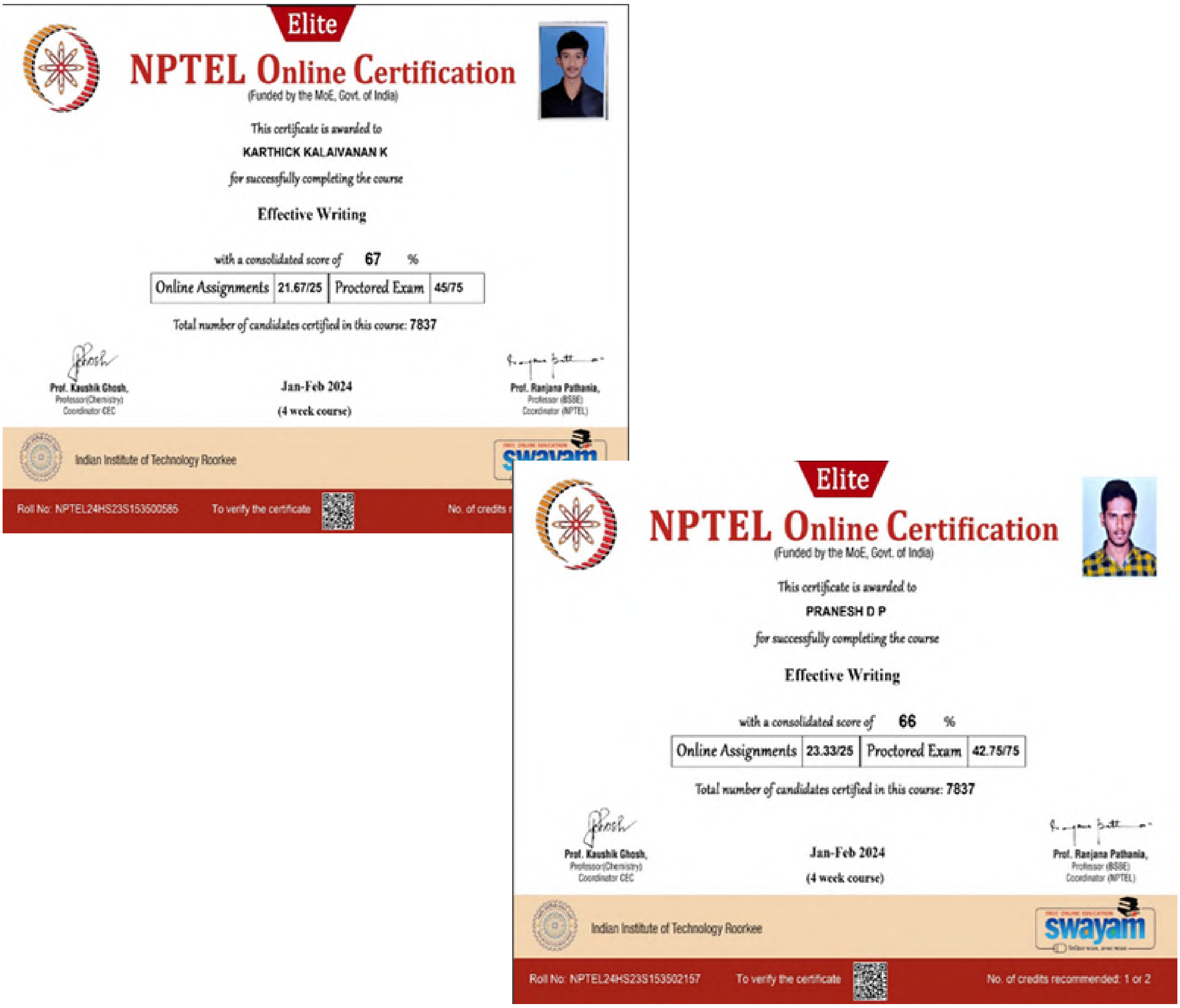
Mr Dhiyanesh S from CSE A completed a course on **Data Science for Engineers** through NPTEL in February 2024.

STUDENT NPTEL CERTIFICATION

SCIENCE AND HUMANITIES

CERTIFICATION

In February 2024, a total of **1101 first-year students** have successfully obtained certifications in **a course on Effective Writing** through NPTEL.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

KARTHICK KALAIVANAN K

for successfully completing the course

Effective Writing

with a consolidated score of 67 %

Online Assignments	21.67/25	Proctored Exam	45/75

Total number of candidates certified in this course: 7837

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL24HS23S153500585

To verify the certificate

No. of credits r

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

PRANESH D P

for successfully completing the course

Effective Writing

with a consolidated score of 66 %

Online Assignments	23.33/25	Proctored Exam	42.75/75

Total number of candidates certified in this course: 7837

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL24HS23S153502157

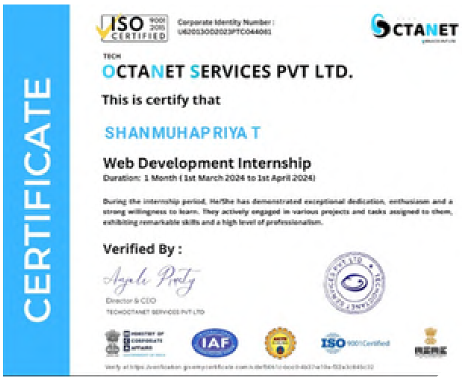
To verify the certificate

No. of credits recommended: 1 or 2

STUDENT NPTEL CERTIFICATIONS

SCIENCE AND HUMANITIES

Ms Shanmugapriya T, First B.E. CSE completed four-week **Virtual Internship Programme** on Web Development at OCTANET SERVICES PVT. LTD. during March-April 2024.



CERTIFICATE

ISO 9001:2015 CERTIFIED

Corporate Identity Number : U62013OD2023PTC044081

OCTANET

TECH
OCTANET SERVICES PVT LTD.

This is certify that

SHANMUHAPRIYA T

Web Development Internship

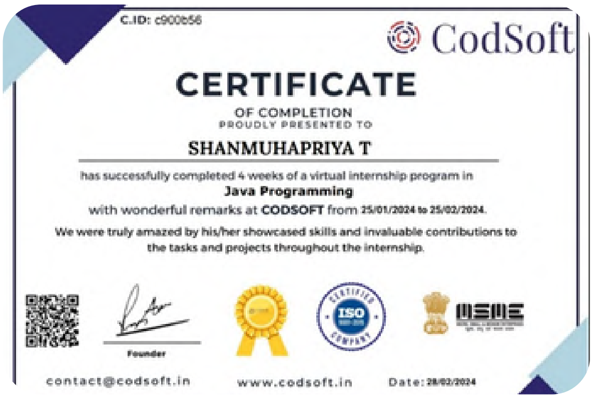
Duration: 1 Month (1st March 2024 to 1st April 2024)

During the internship period, He/She has demonstrated exceptional dedication, enthusiasm and a strong willingness to learn. They actively engaged in various projects and tasks assigned to them, exhibiting remarkable skills and a high level of professionalism.

Verified By :

Director & CEO
TECHOCTANET SERVICES PVT LTD

STUDENT CERTIFICATION



C.ID: c900b56

CodSoft

CERTIFICATE

OF COMPLETION
PROUDLY PRESENTED TO

SHANMUHAPRIYA T

has successfully completed 4 weeks of a virtual internship program in
Java Programming
with wonderful remarks at **CODSOFT** from 25/01/2024 to 25/02/2024.

We were truly amazed by his/her showcased skills and invaluable contributions to the tasks and projects throughout the internship.

Founder

contact@codsoft.in

www.codsoft.in

Date: 28/02/2024

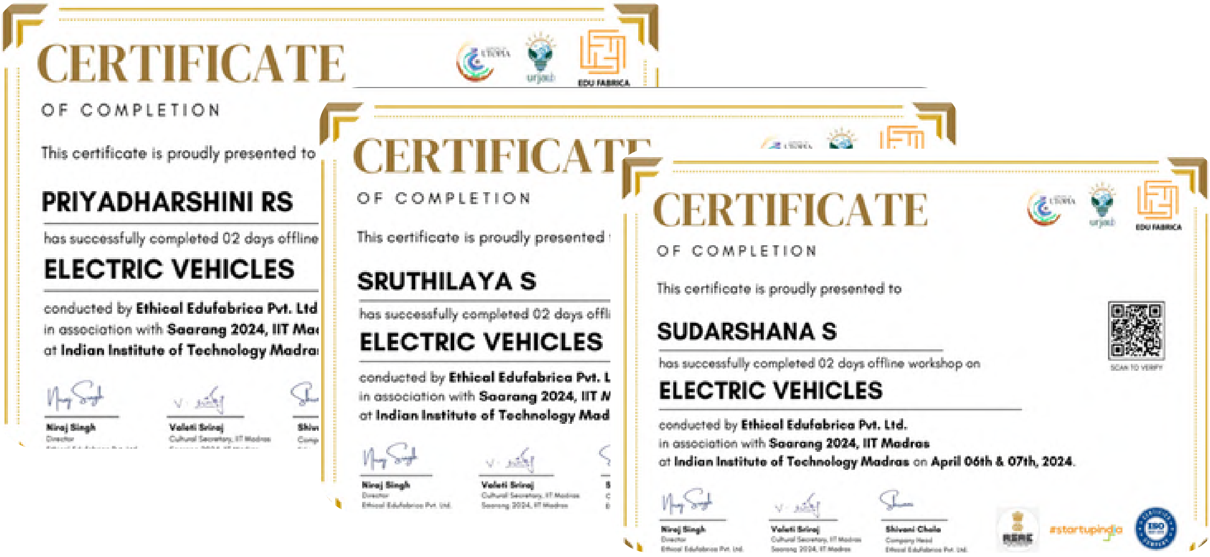
Ms Shanmugapriya T, First B.E. CSE completed four-week Virtual Internship Programme on Java Programming at CODSOFT during 25-26 April 2024.

STUDENT CERTIFICATION

SCIENCE AND HUMANITIES

CERTIFICATIONS

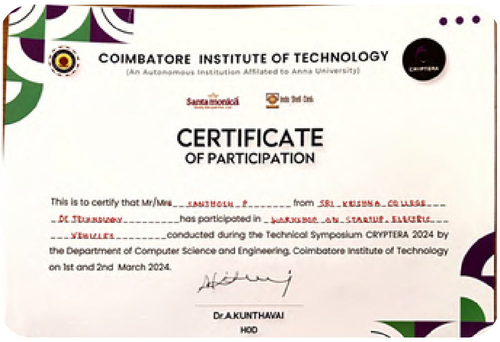
Ms Priyadharshini R S, Ms Sruthilaya S and Ms Sudarshana S completed two-day offline **workshop** on Electric Vehicles conducted by Ethical Edufabrics Pvt.. Ltd., in association with Soorang 2024, IIT Madras during 06-07 April 2024.



CERTIFICATE
OF COMPLETION
This certificate is proudly presented to
PRIYADHARSHINI RS
has successfully completed 02 days offline
ELECTRIC VEHICLES
conducted by Ethical Edufabrica Pvt. Ltd
in association with Saarang 2024, IIT Ma
at Indian Institute of Technology Madra
Niraj Singh
Director
Valeti Srinaj
Cultural Secretary, IIT Madras

CERTIFICAT
OF COMPLETION
This certificate is proudly presented
SRUTHILAYA S
has successfully completed 02 days offl
ELECTRIC VEHICLES
conducted by Ethical Edufabrica Pvt. L
in association with Saarang 2024, IIT M
at Indian Institute of Technology Mad
Niraj Singh
Director
Ethical Edufabrica Pvt. Ltd.
Valeti Srinaj
Cultural Secretary, IIT Madras
Saarang 2024, IIT Madras

CERTIFICATE
OF COMPLETION
This certificate is proudly presented to
SUDARSHANA S
has successfully completed 02 days offline workshop on
ELECTRIC VEHICLES
conducted by Ethical Edufabrica Pvt. Ltd.
in association with Saarang 2024, IIT Madras
at Indian Institute of Technology Madras on April 06th & 07th, 2024.
SCAN TO VERIFY
Niraj Singh
Director
Ethical Edufabrica Pvt. Ltd.
Valeti Srinaj
Cultural Secretary, IIT Madras
Saarang 2024, IIT Madras
Shivani Chola
Company Head
Ethical Edufabrica Pvt. Ltd.
#startupindia



COIMBATORE INSTITUTE OF TECHNOLOGY
(An Autonomous Institution Affiliated to Anna University)

CERTIFICATE
OF PARTICIPATION

This is to certify that Mr/Mrs __SANTHOSH P______ from SRI KRISHNA COLLEGE __OF TECHNOLOGY________has participated in _WORKSHOP ON STARTUP ELECTRIC ___VEHICLES________conducted during the Technical Symposium CRYPTERA 2024 by the Department of Computer Science and Engineering, Coimbatore Institute of Technology on 1st and 2nd March 2024.

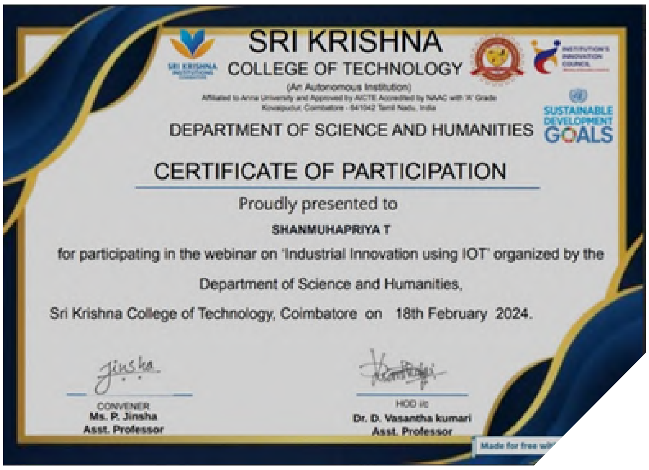
Dr.A.KUNTHAVAI
HOD

Mr P Santhosh, Student of First B.E./B.Tech., attended a workshop on Start-up Electric Vehicles in a **Technical Symposium on CRYPTERA** conducted by Coimbatore Institute of Technology, Coimbatore during 01-02 March 2024.

STUDENTS PARTICIPATION

SCIENCE AND HUMANITIES

Ms Shanmugapriya T, First B.E. CSE, attended a **webinar** on Industrial Innovation using IOT organized by SKCT on 18.02.2024.



SRI KRISHNA
COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Affiliated to Anna University and Approved by AICTE Accredited by NAAC with 'A' Grade
Kovaipudur, Coimbatore - 641042 Tamil Nadu, India

DEPARTMENT OF SCIENCE AND HUMANITIES

CERTIFICATE OF PARTICIPATION

Proudly presented to

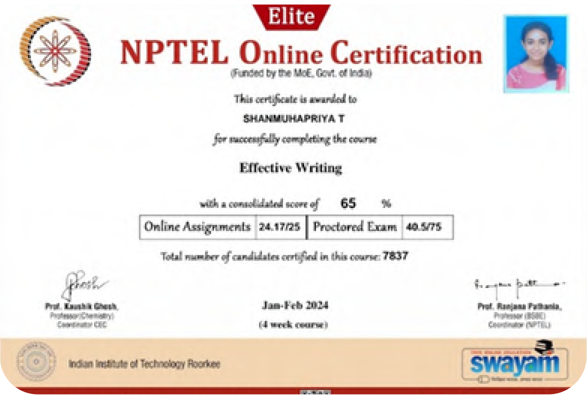
SHANMUHAPRIYA T

for participating in the webinar on 'Industrial Innovation using IOT' organized by the Department of Science and Humanities, Sri Krishna College of Technology, Coimbatore on 18th February 2024.

Jinsha
CONVENER
Ms. P. Jinsha
Asst. Professor

HOD i/c
Dr. D. Vasantha kumari
Asst. Professor

STUDENT PARTICIPATION



Elite

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

This certificate is awarded to

SHANMUHAPRIYA T

for successfully completing the course

Effective Writing

with a consolidated score of 65 %

Online Assignments	24.17/25	Proctored Exam	40.5/75

Total number of candidates certified in this course: 7837

Prof. Kaushik Ghosh
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

swayam

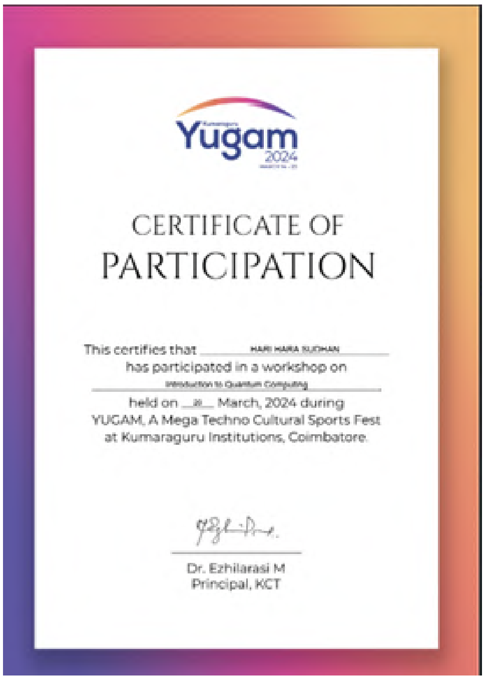
Ms Shanmugapriya T, First B.E. CSE, completed the **NPTEL Online Certification Course** on Effective Writing.

STUDENT PARTICIPATION

SCIENCE AND HUMANITIES

CERTIFICATIONS

Mr Karthickumar S, Mr Hari Hara Sudhan and Mr Kamalanand attended a **workshop** on Introduction to Quantum Computing held on 20.03.2024 during Yugam Amega Techno Cultural Sports Fest at Kumaraguru College of Technology, Coimbatore.

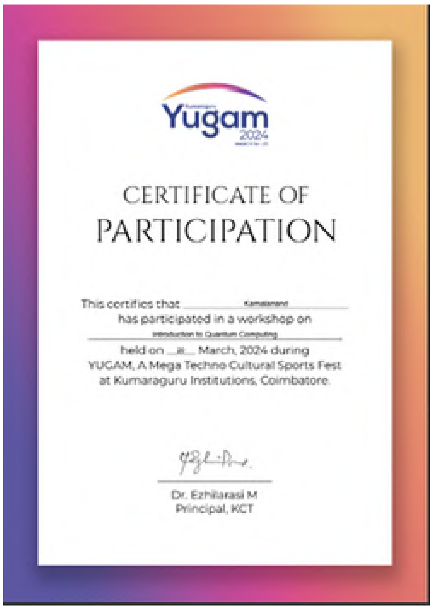


Yugam 2024

CERTIFICATE OF PARTICIPATION

This certifies that HARI HARA SUDHAN
has participated in a workshop on
Introduction to Quantum Computing
held on [illegible] March, 2024 during
YUGAM, A Mega Techno Cultural Sports Fest
at Kumaraguru Institutions, Coimbatore.

Dr. Ezhilarasi M
Principal, KCT

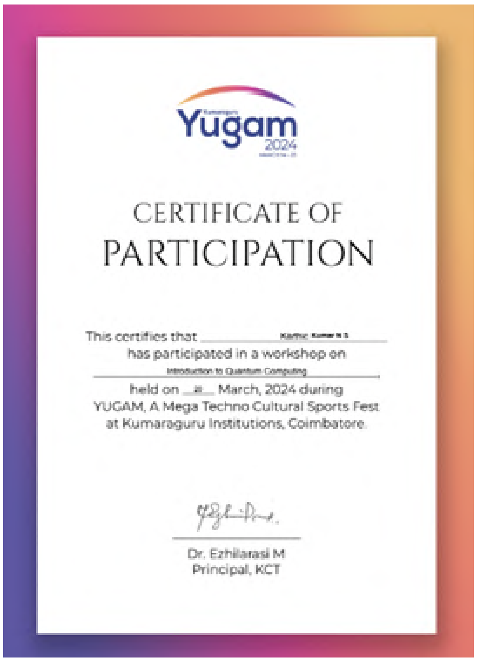


Yugam 2024

CERTIFICATE OF PARTICIPATION

This certifies that Kamalanand
has participated in a workshop on
Introduction to Quantum Computing
held on [illegible] March, 2024 during
YUGAM, A Mega Techno Cultural Sports Fest
at Kumaraguru Institutions, Coimbatore.

Dr. Ezhilarasi M
Principal, KCT



Yugam 2024

CERTIFICATE OF PARTICIPATION

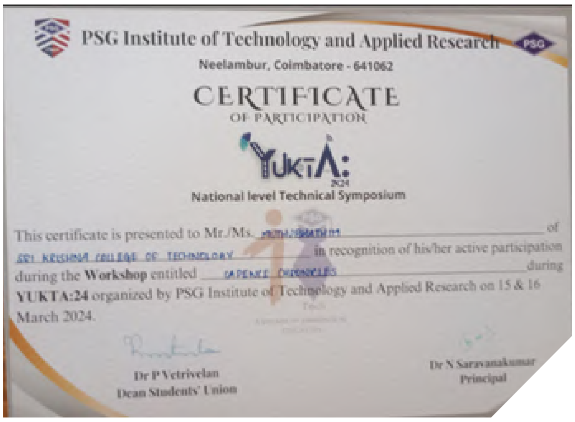
This certifies that Karthic Kumar N S
has participated in a workshop on
Introduction to Quantum Computing
held on [illegible] March, 2024 during
YUGAM, A Mega Techno Cultural Sports Fest
at Kumaraguru Institutions, Coimbatore.

Dr. Ezhilarasi M
Principal, KCT

STUDENTS PARTICIPATION

SCIENCE AND HUMANITIES

Ms Muthubharathi attended a **workshop** on CAPENECE Chronicle during YUKTHA 24 organized by PSG Institute of Technology, Coimbatore during 15-16 March 2024.



PSG Institute of Technology and Applied Research

Neelambur, Coimbatore - 641062

CERTIFICATE

OF PARTICIPATION

YUKTA: 2024

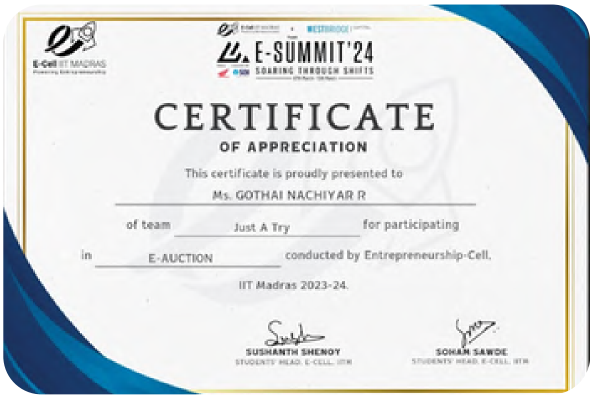
National level Technical Symposium

This certificate is presented to Mr./Ms. MUTHUBHARATHI of SRI KRISHNA COLLEGE OF TECHNOLOGY in recognition of his/her active participation during the **Workshop** entitled CAPENCE CHRONICLES during **YUKTA:24** organized by PSG Institute of Technology and Applied Research on 15 & 16 March 2024.

Dr P Vetrivelan
Dean Students' Union

Dr N Saravanakumar
Principal

STUDENT PARTICIPATION



E-Cell IIT MADRAS

E-SUMMIT'24

SOARING THROUGH SHIFTS

CERTIFICATE

OF APPRECIATION

This certificate is proudly presented to

Ms. GOTHAI NACHIYAR R

of team Just A Try for participating

in E-AUCTION conducted by Entrepreneurship-Cell,

IIT Madras 2023-24.

SUSHANTH SHENOY
STUDENTS' HEAD, E-CELL, IITM

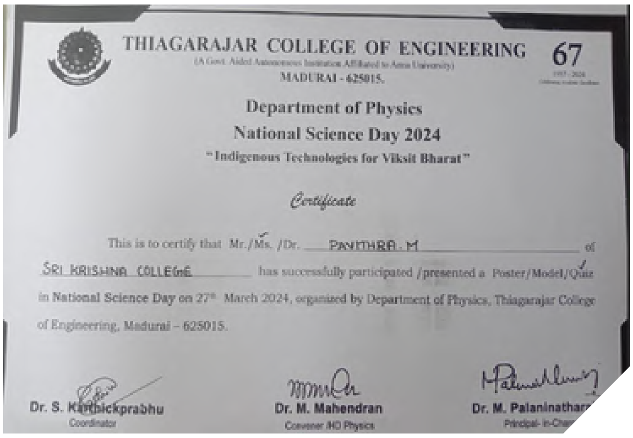
SOHAM SAWDE
STUDENTS' HEAD, E-CELL, IITM

Ms R Gothai Nachiyar participated in a event on Just A Try in **E-AUCTION** conducted by Entrepreneurship Cell - IIT Madras.

STUDENT PARTICIPATION

SCIENCE AND HUMANITIES

Ms M Pavithra and Mr Mohammed Nasthaeen S, Students of First Year, completed a **Quiz** conducted as a part of National Science Day on 27.03.2024 organized by the Department of Physics, Thiagarajar College of Engineering, Madurai.



THIAGARAJAR COLLEGE OF ENGINEERING
(A Govt. Aided Autonomous Institution Affiliated to Anna University)
MADURAI - 625015.
67

Department of Physics
National Science Day 2024
"Indigenous Technologies for Viksit Bharat"

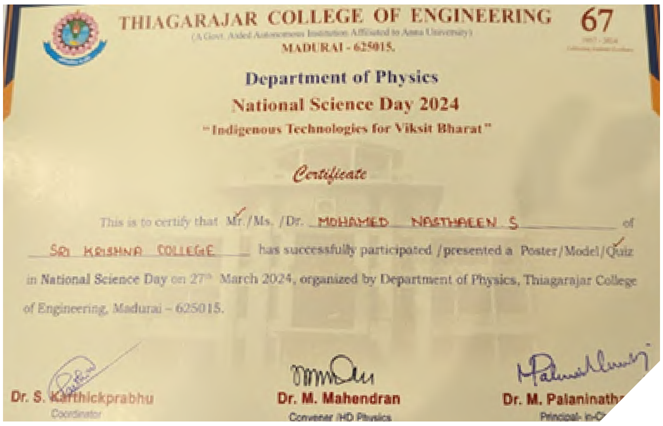
Certificate

This is to certify that Mr./Ms.✓ /Dr. PAVITHRA. M of SRI KRISHNA COLLEGE has successfully participated /presented a Poster/Model/Quiz✓ in National Science Day on 27th March 2024, organized by Department of Physics, Thiagarajar College of Engineering, Madurai – 625015.

Dr. S. Karthickprabhu
Coordinator

Dr. M. Mahendran
Convener /HO Physics

Dr. M. Palaninathar
Principal- in-Cha



THIAGARAJAR COLLEGE OF ENGINEERING
(A Govt. Aided Autonomous Institution Affiliated to Anna University)
MADURAI - 625015.
67

Department of Physics
National Science Day 2024
"Indigenous Technologies for Viksit Bharat"

Certificate

This is to certify that Mr.✓/Ms. /Dr. MOHAMED NASTHAEEN S of SRI KRISHNA COLLEGE has successfully participated /presented a Poster/Model/Quiz✓ in National Science Day on 27th March 2024, organized by Department of Physics, Thiagarajar College of Engineering, Madurai – 625015.

Dr. S. Karthickprabhu
Coordinator

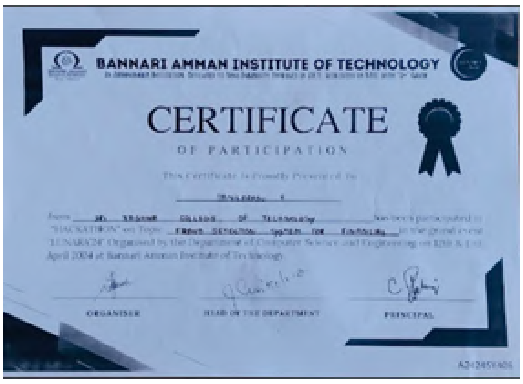
Dr. M. Mahendran
Convener /HO Physics

Dr. M. Palaninath
Principal- in-C

STUDENTS PARTICIPATION

SCIENCE AND HUMANITIES

Mr Salaijaya Vishnu G, Mr Madhan Raj T, Mr Sanjay S, Mr R Shanukavin, Mr N Sabreeshraj, Mr N Balavignesh and Mr Tamilarasu R, participated in LUNARA'24 conducted by Bannari Amman Institute of Technology, Sathyamangalam on 12 April 2024.



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

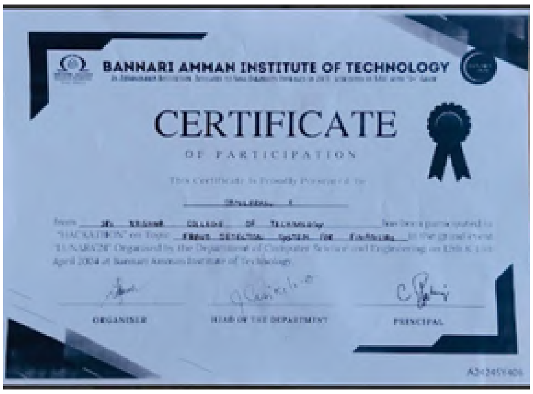
CERTIFICATE

OF PARTICIPATION

ORGANISER

HEAD OF THE DEPARTMENT

PRINCIPAL



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

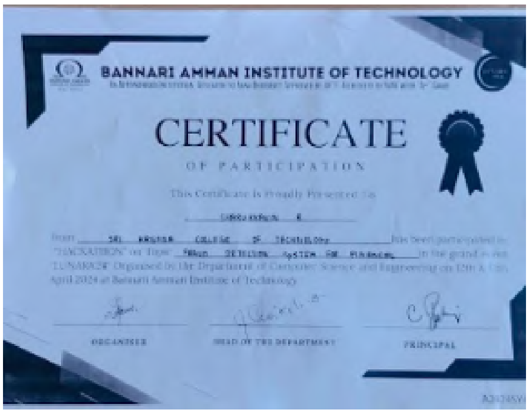
CERTIFICATE

OF PARTICIPATION

ORGANISER

HEAD OF THE DEPARTMENT

PRINCIPAL



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

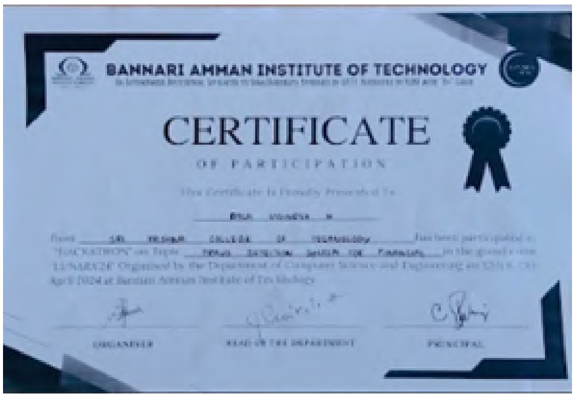
CERTIFICATE

OF PARTICIPATION

ORGANISER

HEAD OF THE DEPARTMENT

PRINCIPAL



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

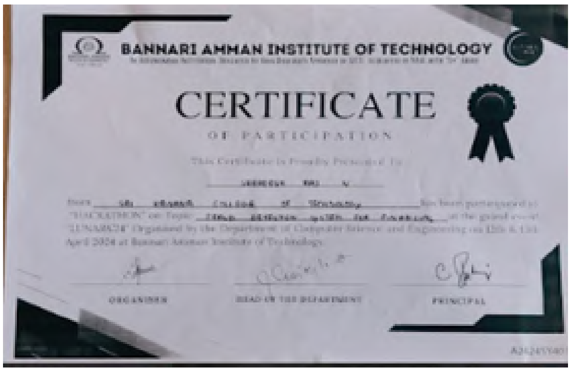
CERTIFICATE

OF PARTICIPATION

ORGANISER

HEAD OF THE DEPARTMENT

PRINCIPAL



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

CERTIFICATE

OF PARTICIPATION

ORGANISER

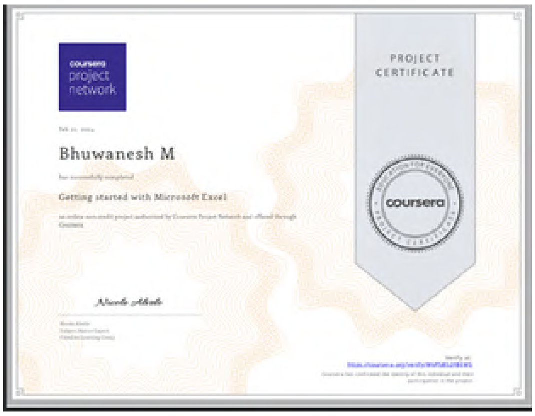
HEAD OF THE DEPARTMENT

PRINCIPAL

STUDENTS PARTICIPATION

SCIENCE AND HUMANITIES

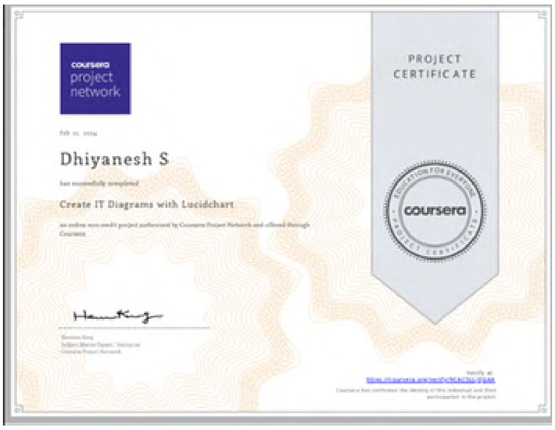
101 first year students completed certifications in various **courses through Coursera.**


coursera project network

Bhuwanesh M

Getting started with Microsoft Excel

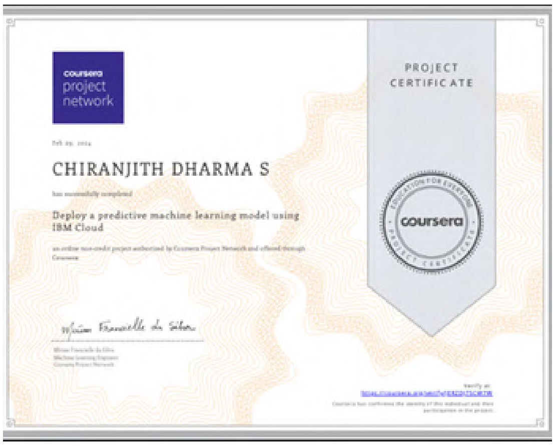
PROJECT CERTIFICATE


coursera project network

Dhiyanesh S

Create IT Diagrams with Lucidchart

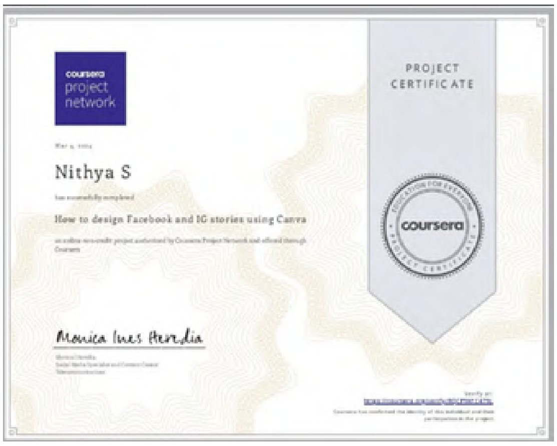
PROJECT CERTIFICATE


coursera project network

CHIRANJITH DHARMA S

Deploy a predictive machine learning model using IBM Cloud

PROJECT CERTIFICATE

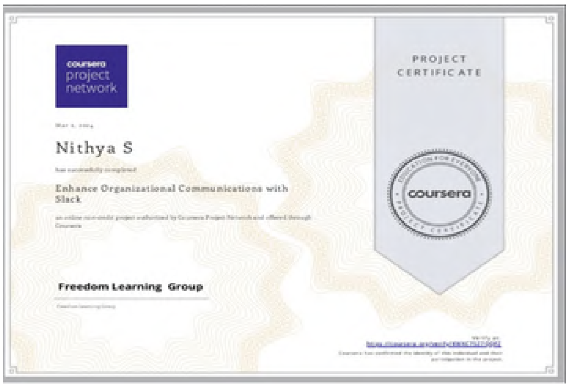

coursera project network

Nithya S

How to design Facebook and IG stories using Canva

Monica Ines Heredia

PROJECT CERTIFICATE


coursera project network

Nithya S

Enhance Organizational Communications with Slack

Freedom Learning Group

PROJECT CERTIFICATE

STUDENTS PARTICIPATION

SCIENCE AND HUMANITIES

The Department of Science and Humanities is happy to share an article titled, **"Tannic acid- Functionalised MoS2 and g-C3N4 Thin Film Lamellar Membranes for Improved Permeance and Rejection in Nano filtration"** published by **Dr. K. Venkatesh AP/S&H** in Applied Nano materials under American Chemical Society with an impact factor of 5.9.

ACS APPLIED NANO MATERIALS
www.acsanm.org Article

Tannic Acid-Functionalized MoS_2 and $g\text{-}C_3N_4$ Thin Film Lamellar Membranes for Improved Permeance and Rejection in Nanofiltration

Karthikeyarajan Vinothkumar, Venkatesh Kanagaraj, Mahesh Padaki,* and R. Geetha Balakrishna*

Cite This: https://doi.org/10.1021/acsanm.4c00790 Read Online

ACCESS | Metrics & More | Article Recommendations | Supporting Information

ABSTRACT: Design of lamellar membranes using nanomaterials of different dimensions has gained importance as they offer combined and synergetic properties that can significantly enhance the permeance and rejection. Herein, we report the fabrication of a lamellar thin film composite of a polyamide composite membrane via interfacial polymerization using 1T-molybdenum disulfide/graphitic carbon nitride ($1T\text{-}MoS_2/g\text{-}C_3N_4$), synthesized by a one-pot solid state reaction. The developed nanofiller $1T\text{-}MoS_2/g\text{-}C_3N_4$ (MC) had unresolved issues, namely, low stability, agglomeration, low processability, and poor compatibility when incorporated into membranes. A sustainable approach to functionalize the MC surface with low-cost, stable, and ecologically friendly tannic acid (TA), a polyphenol derived from plants and rich in −OH functional groups, has significantly addressed the aforementioned issues. The hydrophilic nature and strong negative charge of TA produce a dense network on the membrane surface, inducing nanofiltration ability, in addition to offering efficient permeance. The optimal loading of this functionalized composite in the membrane resulted in an 18.4% NaCl rejection while achieving twice the permeance ($17.7\ L\ m^{-2}\ h^{-1}\ bar^{-1}$) compared to that of the non-TA-treated membranes. Divalent salts of sodium and magnesium sulfate show rejection up to 97 and 95%, respectively, while dye molecules of Congo red (696.7 Da) and methylene orange (327.3 Da) show >94% rejection, all with very good permeance. The robust and economical technique of one-pot synthesis of nanofillers together with easy functionalization rendered a very strong, tough, high antifouling thin film nanocomposite membrane that could practically be applied in desalination applications.

KEYWORDS: *$1T\text{-}MoS_2/g\text{-}C_3N_4$, tannic acid, thin film membranes, salt and dye rejection, wastewater treatment*

1. INTRODUCTION

Reverse osmosis (RO) and nanofiltration (NF) are two widely used membrane-based technologies owing to their high separation ability, selectivity, and environmental benefits.[1] Among these, NF membranes have been very effective in dye/salt separations, water softening, and the elimination of low-molecular-weight organics as they possess the desired range of pore size (0.5−2 nm);[2] particularly, thin-film composite (TFC) membranes consist of a densely cross-linked polyamide (PA) selective layer on the top of a microporous substrate. The advantages of being scalable and affordable to produce and operate at easy conditions have led to extensive research on TFCs, and they have been acknowledged as the benchmark in NF technology.[3]

Unfortunately, good permeance, selectivity, and fouling issues still exist in current TFC membranes, unlike in the thin-film nanocomposite (TFN) membranes, which are made by incorporating nanomaterials. Different morphologies, i.e., one-dimensional (1D) and two-dimensional (2D) nanomaterials, exhibit a significant difference in their impact on the PA layer

Received: February 8, 2024
Revised: April 12, 2024
Accepted: April 12, 2024

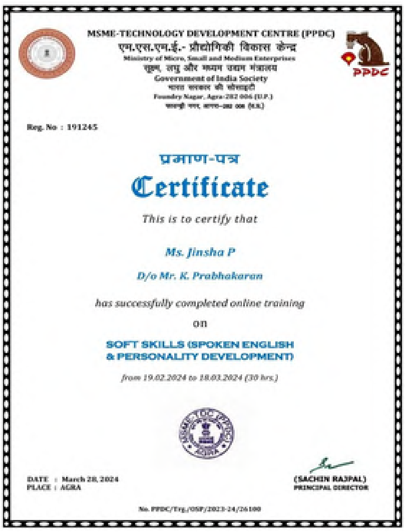
ACS Publications

A

FACULTY ACHIEVEMENT

SCIENCE AND HUMANITIES

Ms P Jinsha, Assistant Professor, Department of Science and Humanities, completed **online training** on Soft Skills & Personality Development during 19.02.2024 - 18.03.2024



MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
Ministry of Micro, Small and Medium Enterprises
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Government of India Society
भारत सरकार की सोसाइटी
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 191245

प्रमाण-पत्र

Certificate

This is to certify that

Ms. Jinsha P

D/o Mr. K. Prabhakaran

has successfully completed online training

on

SOFT SKILLS (SPOKEN ENGLISH & PERSONALITY DEVELOPMENT)

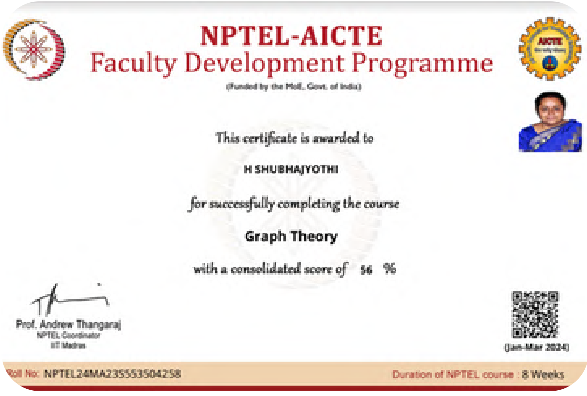
from 19.02.2024 to 18.03.2024 (30 hrs.)

DATE : March 28, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2023-24/26100

FACULTY PARTICIPATION



NPTEL-AICTE
Faculty Development Programme
(Funded by the MoE, Govt. of India)

This certificate is awarded to

H SHUBHAJYOTHI

for successfully completing the course

Graph Theory

with a consolidated score of 56 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Mar 2024)

Roll No: NPTEL24MA235553504258

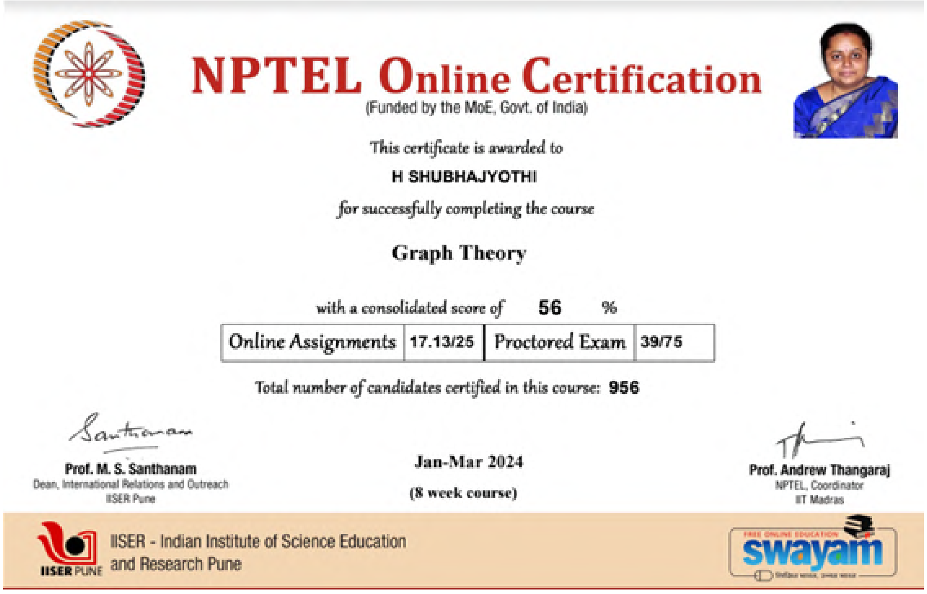
Duration of NPTEL course : 8 Weeks

Mrs H Shubhajyothi, Assistant Professor, completed Faculty Development Course on Graph Theory.

FACULTY PARTICIPATION

SCIENCE AND HUMANITIES

CERTIFICATIONS



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

This certificate is awarded to
H SHUBHAJYOTHI
for successfully completing the course
Graph Theory

with a consolidated score of **56** %

Online Assignments	17.13/25	Proctored Exam	39/75

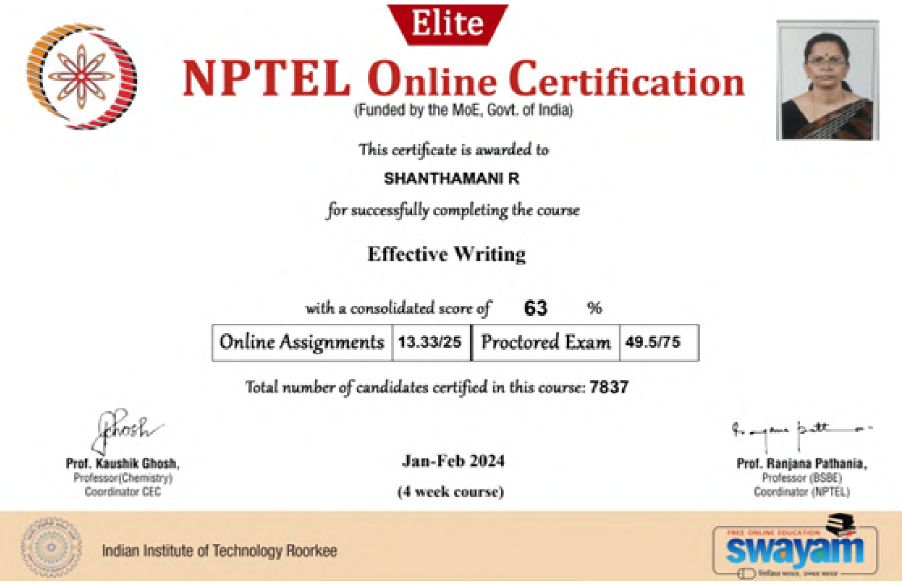
Total number of candidates certified in this course: **956**

Santhanam
Prof. M. S. Santhanam
Dean, International Relations and Outreach
IISER Pune

Jan-Mar 2024
(8 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

IISER - Indian Institute of Science Education and Research Pune



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

This certificate is awarded to
SHANTHAMANI R
for successfully completing the course
Effective Writing

with a consolidated score of **63** %

Online Assignments	13.33/25	Proctored Exam	49.5/75

Total number of candidates certified in this course: **7837**

Ghosh
Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

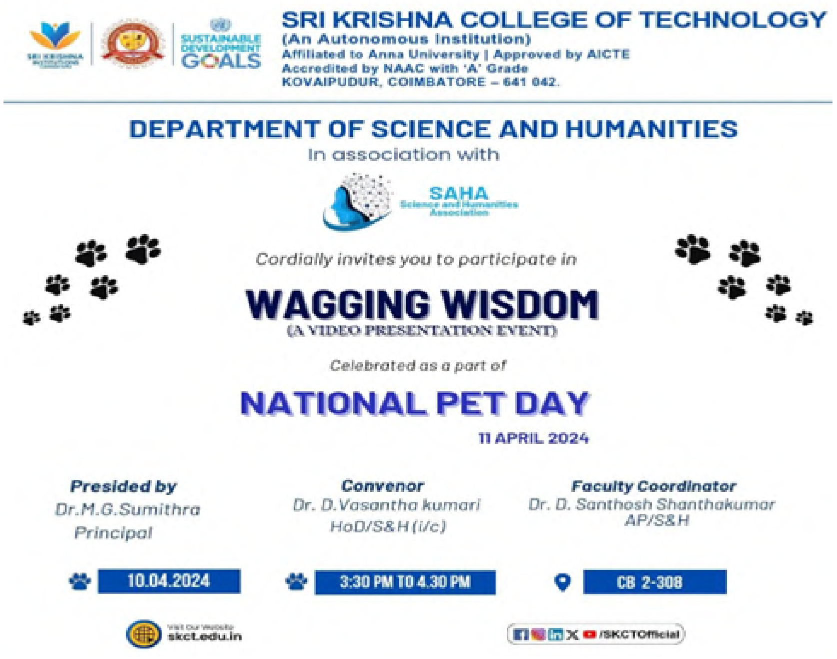
Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

FACULTY NPTEL CERTIFICATIONS

SCIENCE AND HUMANITIES

The Department of Science and Humanities in Sri Krishna College of Technology, Coimbatore organised a video presentation event titled "**Wagging Wisdom**" as a part of National Pet Day on 10.04.2024.



SRI KRISHNA COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Affiliated to Anna University | Approved by AICTE
Accredited by NAAC with 'A' Grade
KOVAIPUDUR, COIMBATORE – 641 042.

DEPARTMENT OF SCIENCE AND HUMANITIES
In association with
SAHA
Science and Humanities Association

Cordially invites you to participate in

WAGGING WISDOM
(A VIDEO PRESENTATION EVENT)

Celebrated as a part of

NATIONAL PET DAY
11 APRIL 2024

Presided by
Dr.M.G.Sumithra
Principal

Convenor
Dr. D.Vasantha kumari
HoD/S&H (i/c)

Faculty Coordinator
Dr. D. Santhosh Shanthakumar
AP/S&H

10.04.2024
3:30 PM TO 4.30 PM
CB 2-308

Visit Our Website skct.edu.in
/SKCTOfficial

EVENT ORGANIZED

SCIENCE AND HUMANITIES

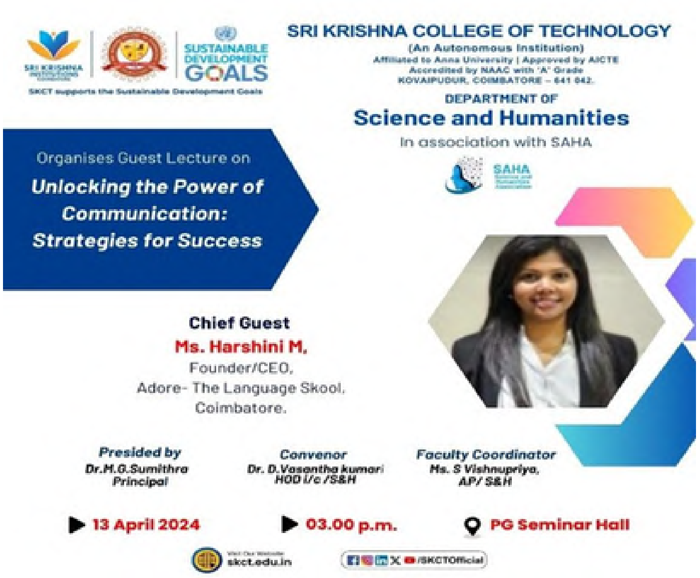
The **Department of Science and Humanities** and Product Development Centre (PDC), SKCT in association with the IEP Solutions, Hosur organized **30hrs of Value Added Course - Wheels on BOT** for Batch 2 constituting 40 students from various departments (ECE-19, AIML-12, AIDS-4, EEE-4, Civil-1) of 1st year at IoT Innovation Lab(PG block), SKCT.

SRI KRISHNA
LLEGE OF TECHNOLOGY

EVENT ORGANIZED

SCIENCE AND HUMANITIES

A **guest lecture** titled "**Unlocking the Power of Communication: Strategies for Succcess**" was incredibly organized by the Department of Science and Humanities at Sri Krishna College of Technology. It was held on April 13, 2024 at PG Seminar Hall between 3.00 and 4.00 p.m. in association with IQAC and SAHA.



SKCT supports the Sustainable Development Goals

SRI KRISHNA COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Affiliated to Anna University | Approved by AICTE
Accredited by NAAC with 'A' Grade
KOVAIPUDUR, COIMBATORE – 641 042.

DEPARTMENT OF
Science and Humanities
In association with SAHA

Organises Guest Lecture on
Unlocking the Power of Communication: Strategies for Success

Chief Guest
Ms. Harshini M,
Founder/CEO,
Adore- The Language Skool,
Coimbatore.

Presided by
Dr.M.G.Sumithra
Principal

Convenor
Dr. D.Vasantha kumari
HOD i/c /S&H

Faculty Coordinator
Ms. S Vishnupriya,
AP/ S&H

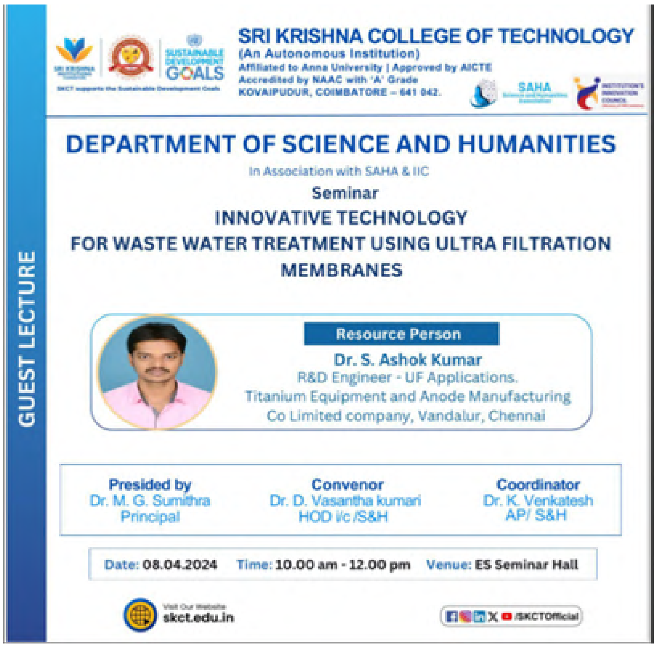
▶ 13 April 2024 ▶ 03.00 p.m. PG Seminar Hall

skct.edu.in /SKCTOfficial

EVENT ORGANIZED

SCIENCE AND HUMANITIES

The Department of Science and Humanities organised a **seminar** in association with IIC and SAHA on "**Innovative Technology for Waste Water Treatment using Ultra Filtration Membranes**" on 08.04.2024 between 10.00 am and 12.



SRI KRISHNA COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Affiliated to Anna University | Approved by AICTE
Accredited by NAAC with 'A' Grade
KOVAIPUDUR, COIMBATORE – 641 042.

GUEST LECTURE

DEPARTMENT OF SCIENCE AND HUMANITIES
In Association with SAHA & IIC
Seminar
INNOVATIVE TECHNOLOGY
FOR WASTE WATER TREATMENT USING ULTRA FILTRATION MEMBRANES

Resource Person
Dr. S. Ashok Kumar
R&D Engineer - UF Applications.
Titanium Equipment and Anode Manufacturing Co Limited company, Vandalur, Chennai

Presided by	Convenor	Coordinator
Dr. M. G. Sumithra Principal	Dr. D. Vasantha kumari HOD i/c /S&H	Dr. K. Venkatesh AP/ S&H

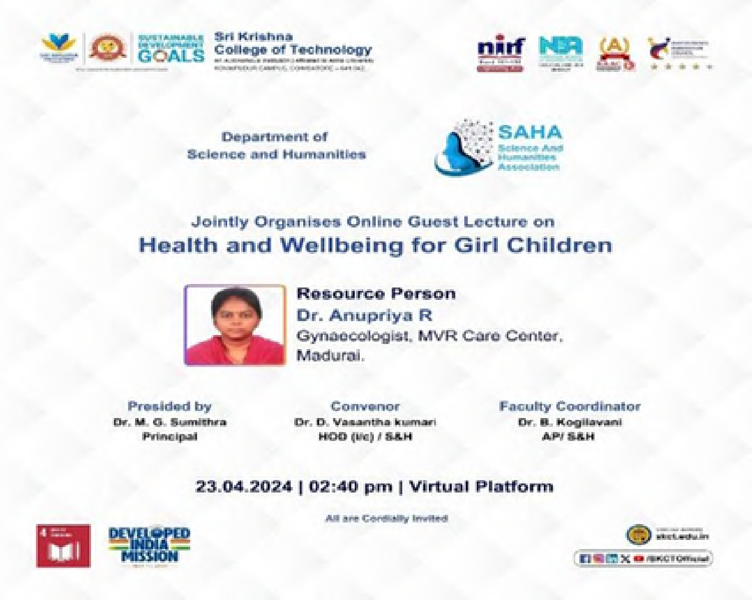
Date: 08.04.2024 Time: 10.00 am - 12.00 pm Venue: ES Seminar Hall

skct.edu.in
/SKCTOfficial

EVENT ORGANIZED

SCIENCE AND HUMANITIES

The Department of Science and Humanities at Sri Krishna College of Technology, in association with **IQAC and SAHA** conducted a session on **"Health and Wellbeing for Girl Children"** through online mode on 23.04.2024.



Sri Krishna College of Technology

Department of Science and Humanities

SAHA Science And Humanities Association

Jointly Organises Online Guest Lecture on

Health and Wellbeing for Girl Children

Resource Person
Dr. Anupriya R
Gynaecologist, MVR Care Center,
Madurai.

Presided by
Dr. M. G. Sumithra
Principal

Convenor
Dr. D. Vasantha kumari
HOD (i/c) / S&H

Faculty Coordinator
Dr. B. Kogilavani
AP/ S&H

23.04.2024 | 02:40 pm | Virtual Platform

All are Cordially Invited

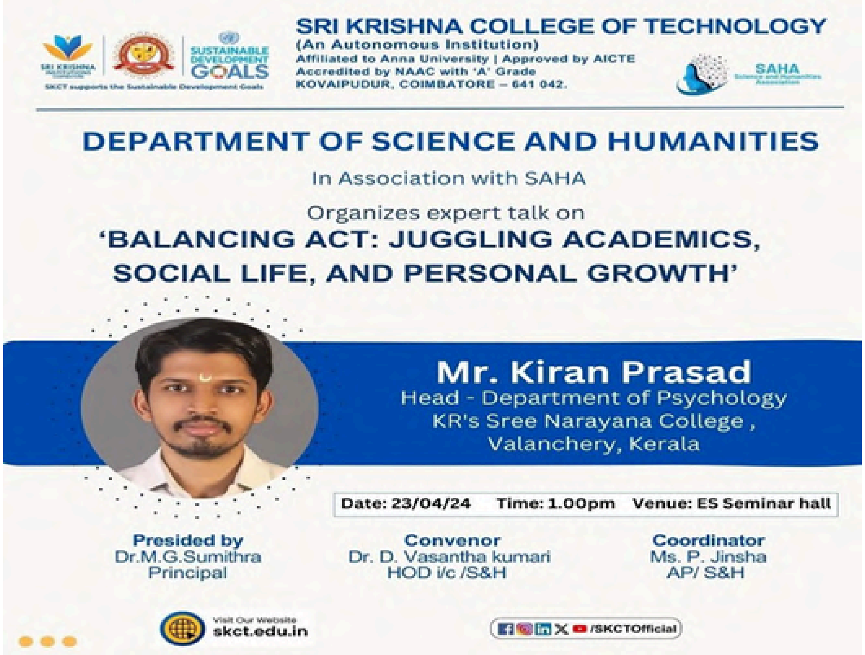
DEVELOPED INDIA MISSION

skct.edu.in
/SKCTOfficial

EVENT ORGANIZED

SCIENCE AND HUMANITIES

The Department of Science and Humanities in association with **SAHA organised** an expert talk on **"Balancing Act: Juggling Academics, social life and Personal Growth"** on 23.04.2024.



SRI KRISHNA COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Affiliated to Anna University | Approved by AICTE
Accredited by NAAC with 'A' Grade
KOVAIPUDUR, COIMBATORE – 641 042.

SKCT supports the Sustainable Development Goals

SAHA

DEPARTMENT OF SCIENCE AND HUMANITIES

In Association with SAHA

Organizes expert talk on

'BALANCING ACT: JUGGLING ACADEMICS, SOCIAL LIFE, AND PERSONAL GROWTH'

Mr. Kiran Prasad
Head - Department of Psychology
KR's Sree Narayana College ,
Valanchery, Kerala

Date: 23/04/24 Time: 1.00pm Venue: ES Seminar hall

Presided by	Convenor	Coordinator
Dr.M.G.Sumithra Principal	Dr. D. Vasantha kumari HOD i/c /S&H	Ms. P. Jinsha AP/ S&H

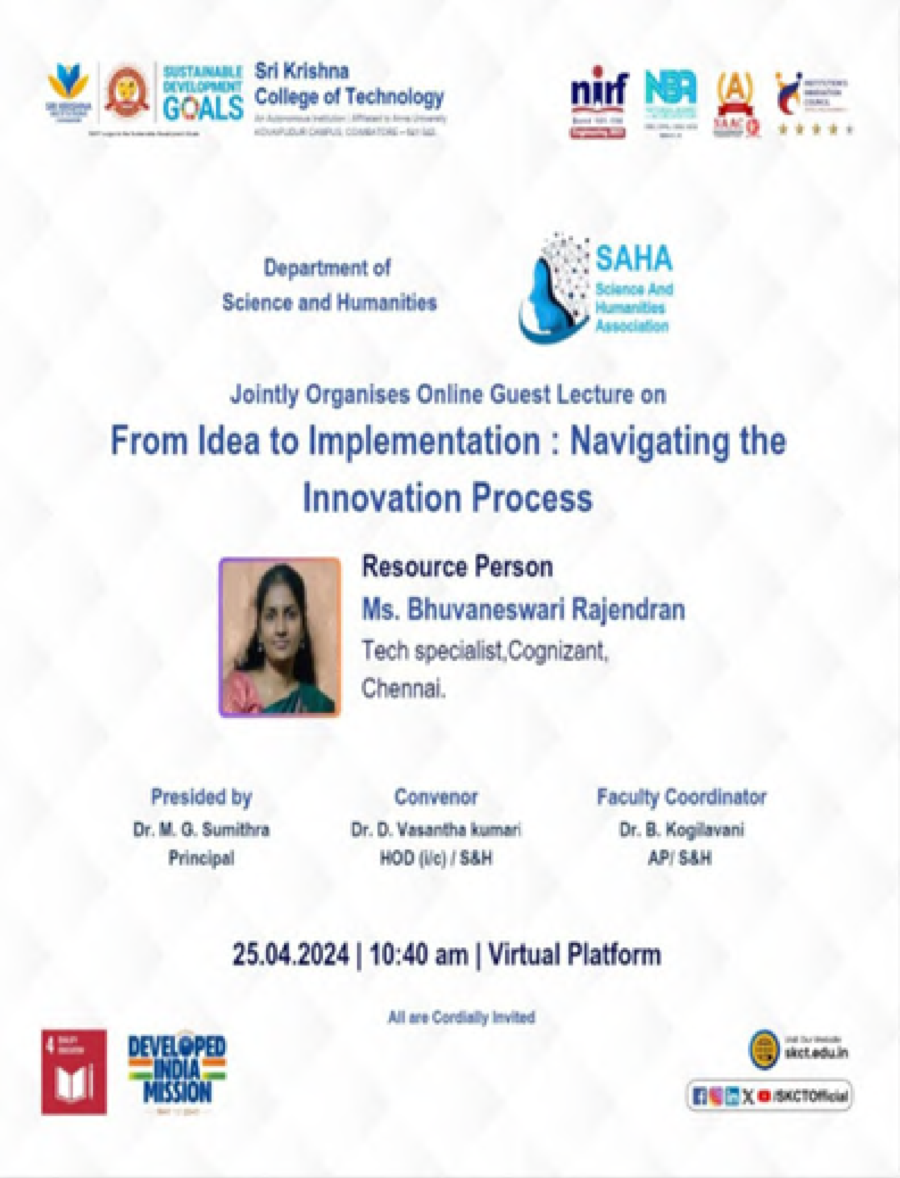
Visit Our Website skct.edu.in

/SKCTOfficial

EVENT ORGANIZED

SCIENCE AND HUMANITIES

The Department of Science and Humanities in association with **SAHA** organised an online Guest Lecture on **"From Idea to Implementation: Navigating the Innovation Process."**



Sri Krishna
College of Technology

Department of
Science and Humanities

SAHA
Science And Humanities Association

Jointly Organises Online Guest Lecture on

From Idea to Implementation : Navigating the Innovation Process

Resource Person
Ms. Bhuvaneswari Rajendran
Tech specialist,Cognizant,
Chennai.

Presided by
Dr. M. G. Sumithra
Principal

Convenor
Dr. D. Vasantha kumari
HOD (i/c) / S&H

Faculty Coordinator
Dr. B. Kogilavani
AP/ S&H

25.04.2024 | 10:40 am | Virtual Platform

All are Cordially Invited

DEVELOPED INDIA MISSION

skct.edu.in
/SKCTOfficial

EVENT ORGANIZED

SCIENCE AND HUMANITIES

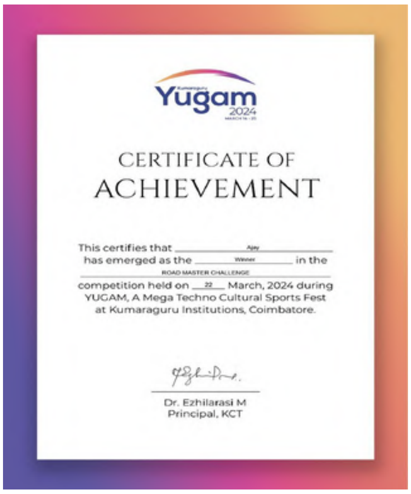
The Department of Science and Humanities in association with **SAHA** celebrated **English Language Day** on 23.04.2024.

EVENT ORGANIZED

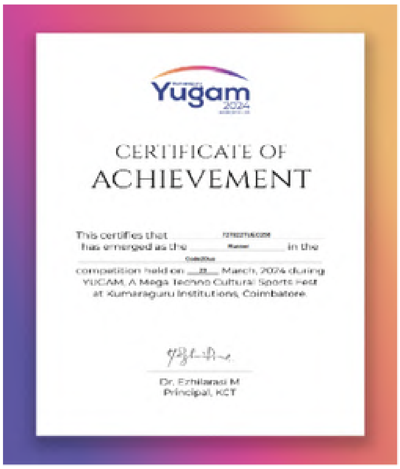
ELECTRONICS AND COMMUNICATION ENGINEERING

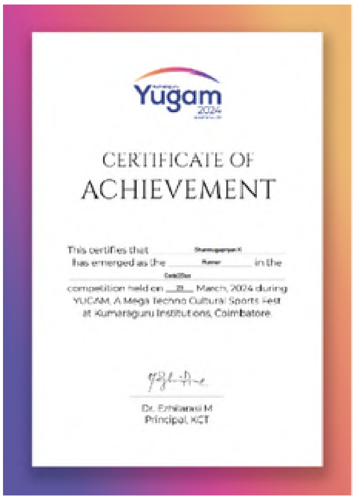
CERTIFICATION

Mr Ajay S, Third year ECE A, secured the **First Place** in Road Master Challenge' with a **cash prize of Rs 2000/-** at Yugam'24, held at Kumaraguru College of Technology, Coimbatore on 22.03.2024.


Yugam 2024
CERTIFICATE OF
ACHIEVEMENT
This certifies that Ajay
has emerged as the Winner in the
ROAD MASTER CHALLENGE
competition held on 22 March, 2024 during
YUGAM, A Mega Techno Cultural Sports Fest
at Kumaraguru Institutions, Coimbatore.
Dr. Ezhilarasi M
Principal, KCT

Mr Shanmugapriyan K and Mr Vimaladettyea K M, Students of Second year ECE, secured the **2nd Prize** in a Technical event on Code2Duo with a **cash prize of Rs 2000/-** in Kumaraguru College of Technology, Coimbatore on 23.03.2024.


Yugam 2024
CERTIFICATE OF
ACHIEVEMENT
This certifies that
has emerged as the in the
competition held on March, 2024 during
YUGAM, A Mega Techno Cultural Sports Fest
at Kumaraguru Institutions, Coimbatore
Dr. Ezhilarasi M
Principal, KCT

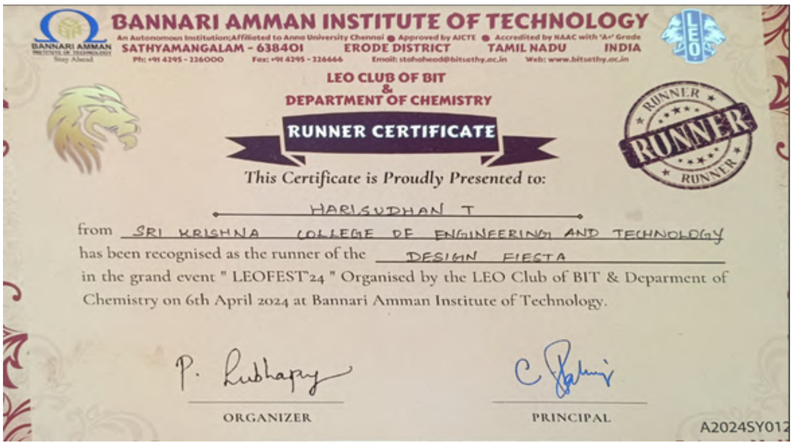

Yugam 2024
CERTIFICATE OF
ACHIEVEMENT
This certifies that
has emerged as the in the
competition held on March, 2024 during
YUGAM, A Mega Techno Cultural Sports Fest
at Kumaraguru Institutions, Coimbatore
Dr. Ezhilarasi M
Principal, KCT

STUDENTS ACHIEVEMENT

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATION

Mr Harisudhan T, Second B.E. ECE, secured the **2nd Prize** in a Technical event on Design Fiesta (UI & UX) organised by Bannari Amman Institute of Technology, Sathyamangalam on 06.04.2024.



BANNARI AMMAN INSTITUTE OF TECHNOLOGY
An Autonomous Institution, Affiliated to Anna University Chennai ● Approved by AICTE ● Accredited by NAAC with 'A+' Grade
SATHYAMANGALAM - 638401 ERODE DISTRICT TAMIL NADU INDIA
Ph: +91 4295 - 226000 Fax: +91 4295 - 226666 Email: stafahead@bitsathy.ac.in Web: www.bitsathy.ac.in

LEO CLUB OF BIT
&
DEPARTMENT OF CHEMISTRY

RUNNER CERTIFICATE

RUNNER

This Certificate is Proudly Presented to:

HARISUDHAN T

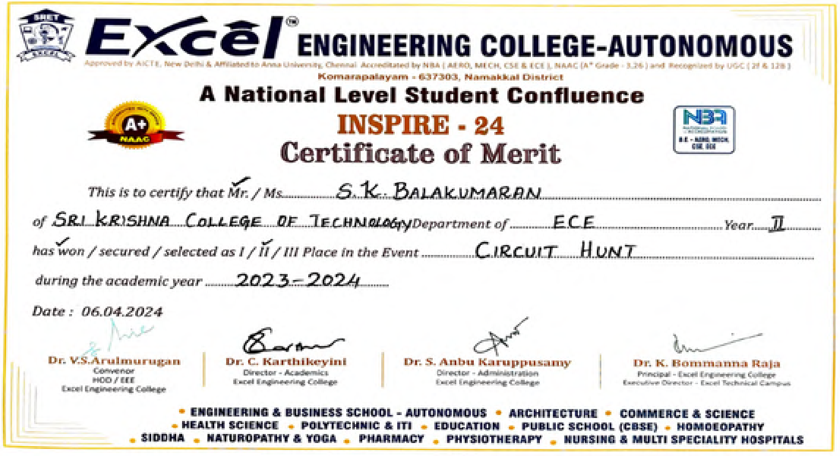
from SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
has been recognised as the runner of the DESIGN FIESTA
in the grand event " LEOFEST'24 " Organised by the LEO Club of BIT & Deparment of Chemistry on 6th April 2024 at Bannari Amman Institute of Technology.

P. Rubhapriya
ORGANIZER

PRINCIPAL

A2024SY012

Mr BALAKUMARAN S K, Second B.E. ECE, secured the **2nd Prize** in a Technical event on Circuit Hunt with a **cash price of Rs 500/-** in Excel Engineering College on 06.04.2024.



Excel ENGINEERING COLLEGE-AUTONOMOUS
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai. Accredited by NBA (AERO, MECH, CSE & ECE), NAAC (A+ Grade - 3.26) and Recognized by UGC (2f & 12B)
Komarapalayam - 637303, Namakkal District

A National Level Student Confluence
INSPIRE - 24
Certificate of Merit

This is to certify that Mr. / Ms. S.K. BALAKUMARAN
of SRI KRISHNA COLLEGE OF TECHNOLOGY Department of ECE Year II
has won / secured / selected as I / II / III Place in the Event CIRCUIT HUNT
during the academic year 2023-2024

Date : 06.04.2024

Dr. V.S.Arulmurugan
Convenor
HOD / EEE
Excel Engineering College

Dr. C. Karthikeyini
Director - Academics
Excel Engineering College

Dr. S. Anbu Karuppusamy
Director - Administration
Excel Engineering College

Dr. K. Bommanna Raja
Principal - Excel Engineering College
Executive Director - Excel Technical Campus

• ENGINEERING & BUSINESS SCHOOL - AUTONOMOUS • ARCHITECTURE • COMMERCE & SCIENCE • HEALTH SCIENCE • POLYTECHNIC & ITI • EDUCATION • PUBLIC SCHOOL (CBSE) • HOMOEOPATHY • SIDDHA • NATUROPATHY & YOGA • PHARMACY • PHYSIOTHERAPY • NURSING & MULTI SPECIALITY HOSPITALS

STUDENT ACHIEVEMENT

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

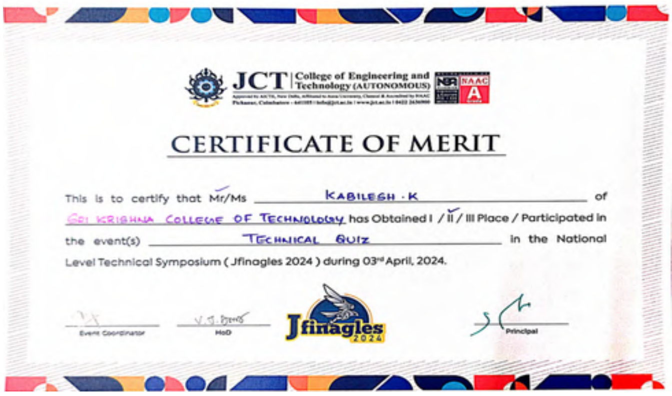
Mr Kabilesh K and **Mr Sai Rishi** of Second B.E. ECE, secured the **2nd Prize** in a technical event on Paper presentation with a **cash prize of Rs 1500/-** in JCT College of Technology on 03.04.2024.

STUDENTS ACHIEVEMENT

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr Kabilesh K , Mr Aswanth. K and **Mr Aswin S** of Second B.E. ECE secured the **2nd Prize** in a Technical Quiz with a **cash prize of Rs 1500/-** in JCT College of Technology on 03.04.2024.

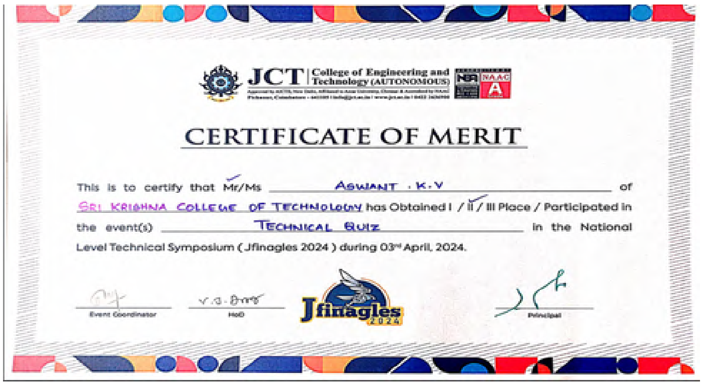


JCT | College of Engineering and Technology (AUTONOMOUS)

CERTIFICATE OF MERIT

This is to certify that [✓ Mr]/Ms KABILESH . K of SRI KRISHNA COLLEGE OF TECHNOLOGY has Obtained I / [✓ II] / III Place / Participated in the event(s) TECHNICAL QUIZ in the National Level Technical Symposium (Jfinagles 2024) during 03rd April, 2024.

Event Coordinator
V.J. Baby
HoD
Jfinagles 2024
Principal

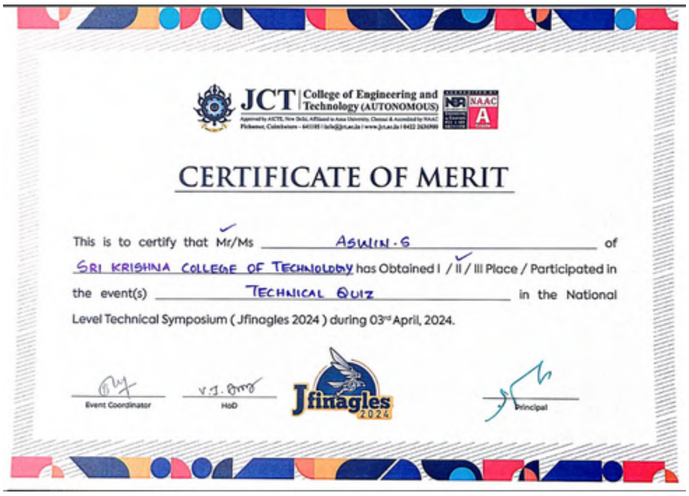


JCT | College of Engineering and Technology (AUTONOMOUS)

CERTIFICATE OF MERIT

This is to certify that [✓ Mr]/Ms ASWANT . K.V of SRI KRISHNA COLLEGE OF TECHNOLOGY has Obtained I / [✓ II] / III Place / Participated in the event(s) TECHNICAL QUIZ in the National Level Technical Symposium (Jfinagles 2024) during 03rd April, 2024.

Event Coordinator
V.J. Baby
HoD
Jfinagles 2024
Principal



JCT | College of Engineering and Technology (AUTONOMOUS)
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai & Accredited by NAAC
Pichanur, Coimbatore - 641105 | info@jct.ac.in | www.jct.ac.in | 0422 2636900

CERTIFICATE OF MERIT

This is to certify that [✓ Mr]/Ms ASWIN . S of SRI KRISHNA COLLEGE OF TECHNOLOGY has Obtained I / [✓ II] / III Place / Participated in the event(s) TECHNICAL QUIZ in the National Level Technical Symposium (Jfinagles 2024) during 03rd April, 2024.

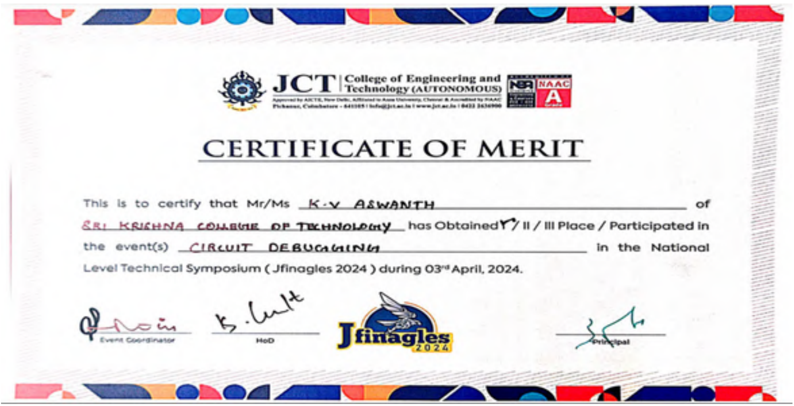
Event Coordinator
V.J. Baby
HoD
Jfinagles 2024
Principal

STUDENTS ACHIEVEMENT

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr Harish Khumar P, Mr Aswanth K and **Mr Aswin s** of Second B.E. ECE secured the **1st Prize** in a Technical event on Circuit Debugging with a **cash price of Rs 2000/-** in JCT College of Technology on 03.04.2024.

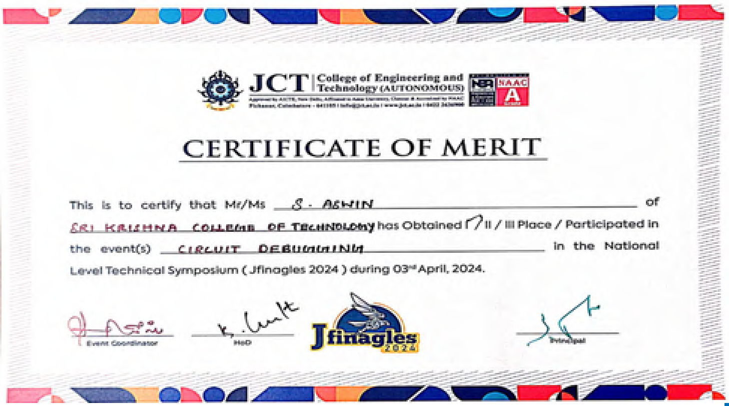


JCT | College of Engineering and Technology (AUTONOMOUS)

CERTIFICATE OF MERIT

This is to certify that Mr/Ms K.V ASWANTH of SRI KRISHNA COLLEGE OF TECHNOLOGY has Obtained I / II / III Place / Participated in the event(s) CIRCUIT DEBUGGING in the National Level Technical Symposium (Jfinagles 2024) during 03rd April, 2024.

Event Coordinator
HoD
Jfinagles 2024
Principal

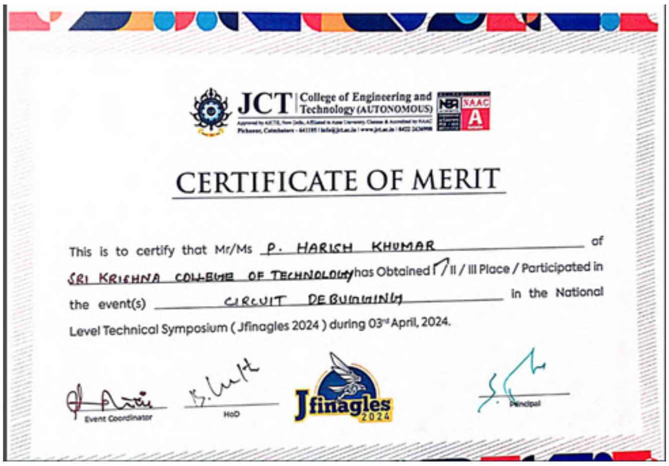


JCT | College of Engineering and Technology (AUTONOMOUS)

CERTIFICATE OF MERIT

This is to certify that Mr/Ms S. ASWIN of SRI KRISHNA COLLEGE OF TECHNOLOGY has Obtained I / II / III Place / Participated in the event(s) CIRCUIT DEBUGGING in the National Level Technical Symposium (Jfinagles 2024) during 03rd April, 2024.

Event Coordinator
HoD
Jfinagles 2024
Principal



JCT | College of Engineering and Technology (AUTONOMOUS)

CERTIFICATE OF MERIT

This is to certify that Mr/Ms P. HARISH KHUMAR of SRI KRISHNA COLLEGE OF TECHNOLOGY has Obtained I / II / III Place / Participated in the event(s) CIRCUIT DEBUGGING in the National Level Technical Symposium (Jfinagles 2024) during 03rd April, 2024.

Event Coordinator
HoD
Jfinagles 2024
Principal

STUDENTS ACHIEVEMENT

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr Akshay G V, Mr Deo Williams S and **Mr Dharshan K** of Second B.E. ECE, secured the **2nd Prize** in a Non-technical event on IPL AUCTION with a **cash price of Rs 750/-** in Kongu Engineering College, Erode on 02.04.2024.

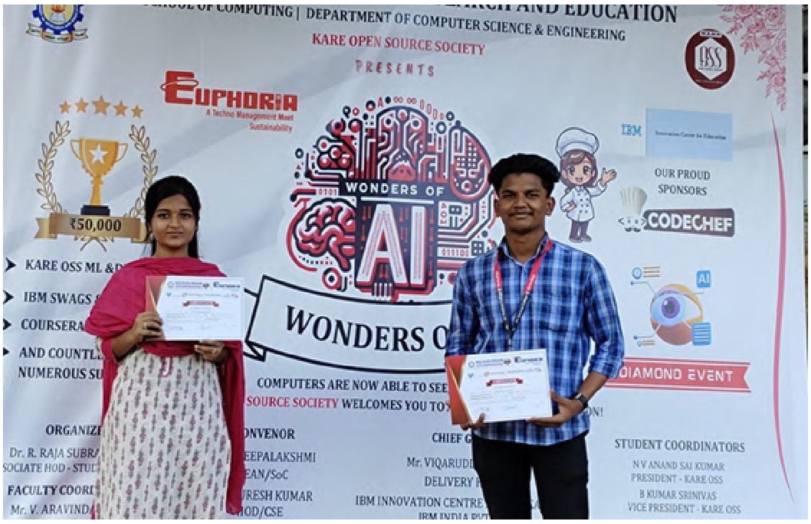
KONGU ENGINEERING COLLEGE
PERUNDURAI, ERODE - 638060
DEPARTMENT OF
ARTIFICIAL INTELLIGENCE
TECHNICAL
SLIDE DE
CODE
INNOV
NON-TECHNICAL
LINK QUIZZ
ENT CONVO
UCTION
@kec_ai_a

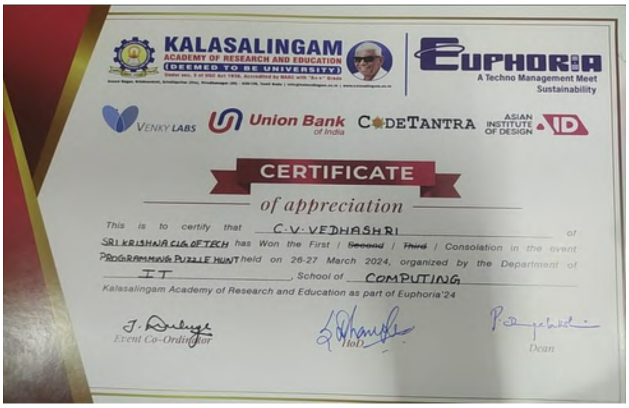
STUDENTS ACHIEVEMENT

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Ms C V VEDASHRI and **Mr G SUGAVAN** of Second B.E. ECE, secured the **1st Place** in a event on "PROGRAMMING PUZZLE HUNT" with a **cash prize of Rs 7000/-** in Euphoria, a Techno Management Meet held at Kalasalingam Academy of Research Education (Deemed to be University), Virudhunagar on 27.03.2024.


SCHOOL OF COMPUTING | DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
KARE OPEN SOURCE SOCIETY
PRESENTS
EUPHORIA
₹50,000
WONDERS OF AI
OUR PROUD SPONSORS
CODECHEF
DIAMOND EVENT
STUDENT COORDINATORS



KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION (DEEMED TO BE UNIVERSITY)

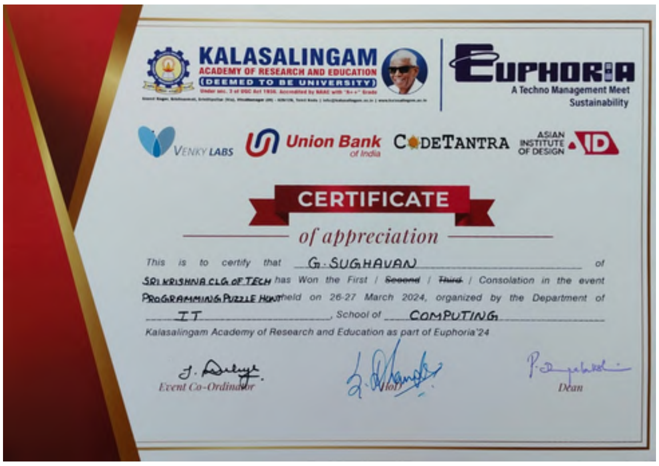
EUPHORIA A Techno Management Meet Sustainability

VENKY LABS Union Bank of India CODETANTRA ASIAN INSTITUTE OF DESIGN

CERTIFICATE of appreciation

This is to certify that C.V.VEDHASHRI of SRI KRISHNA CLG OF TECH has Won the First / ~~Second~~ / ~~Third~~ / Consolation in the event PROGRAMMING PUZZLE HUNT held on 26-27 March 2024, organized by the Department of IT, School of COMPUTING Kalasalingam Academy of Research and Education as part of Euphoria'24

Event Co-Ordinator HoD Dean



KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION (DEEMED TO BE UNIVERSITY)

EUPHORIA A Techno Management Meet Sustainability

VENKY LABS Union Bank of India CODETANTRA ASIAN INSTITUTE OF DESIGN

CERTIFICATE of appreciation

This is to certify that G.SUGHAVAN of SRI KRISHNA CLG OF TECH has Won the First / ~~Second~~ / ~~Third~~ / Consolation in the event PROGRAMMING PUZZLE HUNT held on 26-27 March 2024, organized by the Department of IT, School of COMPUTING Kalasalingam Academy of Research and Education as part of Euphoria'24

Event Co-Ordinator HoD Dean

STUDENTS ACHIEVEMENT

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr UTTANDARAMAN B, Ms UVALASKHMI S and **Ms SUGANYA M**, Second B.E. ECE, secured the **3rd Place** in an event on "PROGRAMMING PUZZLE HUNT" with a **cash prize of Rs 3000/-** in Euphoria, a Techno Management Meet held at Kalasalingam Academy of Research Education(Deemed to be University), Virudhunagar on 27.03.2024.

Ms KIRUTHIKA V and **Ms SANGAVI S** from II ECE B secured the **1st Place** in a event on "Tech Quiz" with a **cash prize of Rs 750/-** held at Hindustan Institute of Technology, Coimbatore on 26.03.2024.

STUDENTS ACHIEVEMENT

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr Aswin S and **Mr Aakash V A** secured the **3rd Prize** in a Non-technical event on K'wood quiz with a **cash prize of Rs 1000/-** in KPR Institute of Engineering and Technology, Coimbatore on 27.03.2024.

Mr Syed Numaan S and **Mr Sarvesh P S** secured the **3rd Prize** in a Technical event on Techquiz with a **cash prize of Rs 1000/-** in KPR Institute of Engineering and Technology, Coimbatore on 27.03.2024.

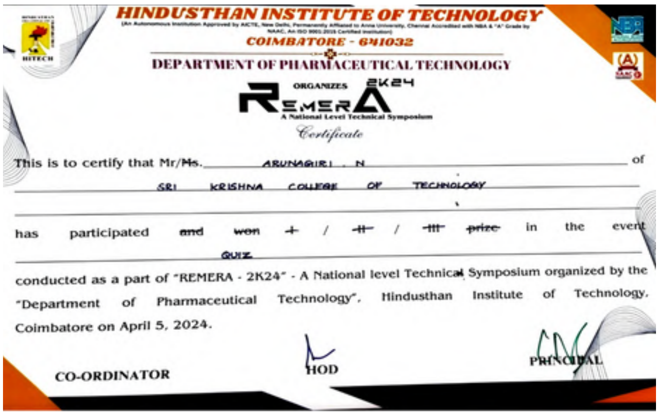
STUDENTS ACHIEVEMENT

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

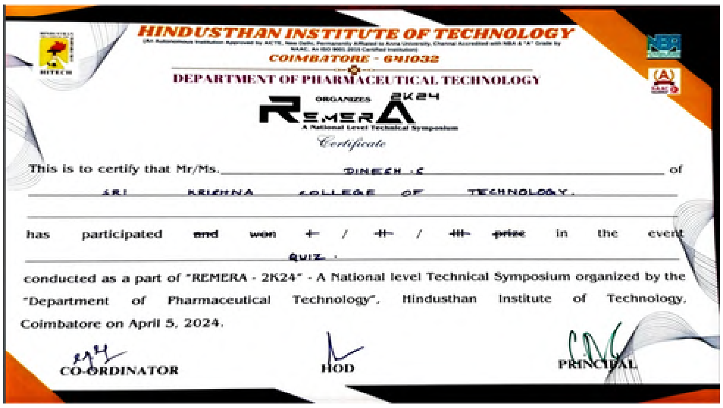
Mr Arunagiri N, Mr Dinesh S, Mr Hariharan K S, Mr Karthick Chidambaram S, Mr Kapilan V and Mr Abilashmani P of Second B.E. ECE **participated in a Technical and Non-technical events** on "Quiz, Connexion, Singing, Lyric Root" in Hindusthan Institute of Technology, Coimbatore on 05.04.2024.

.


HINDUSTHAN INSTITUTE OF TECHNOLOGY
(An Autonomous Institution Approved by AICTE, New Delhi, Permanently Affiliated to Anna University, Chennai Accredited with NBA & "A" Grade by NAAC, An ISO 9001:2015 Certified Institution)
COIMBATORE - 641032
DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
ORGANIZES
REMERA 2K24
A National Level Technical Symposium
Certificate

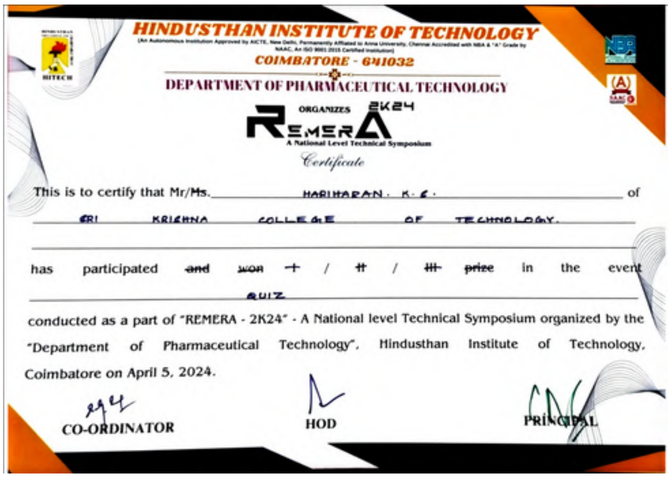
This is to certify that Mr/~~Ms~~. ARUNAGIRI . N of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated ~~and~~ ~~won~~ ~~I~~ / ~~II~~ / ~~III~~ ~~prize~~ in the event QUIZ conducted as a part of "REMERA - 2K24" - A National level Technical Symposium organized by the "Department of Pharmaceutical Technology", Hindusthan Institute of Technology, Coimbatore on April 5, 2024.

CO-ORDINATOR HOD PRINCIPAL


HINDUSTHAN INSTITUTE OF TECHNOLOGY
(An Autonomous Institution Approved by AICTE, New Delhi, Permanently Affiliated to Anna University, Chennai Accredited with NBA & "A" Grade by NAAC, An ISO 9001:2015 Certified Institution)
COIMBATORE - 641032
DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
ORGANIZES
REMERA 2K24
A National Level Technical Symposium
Certificate

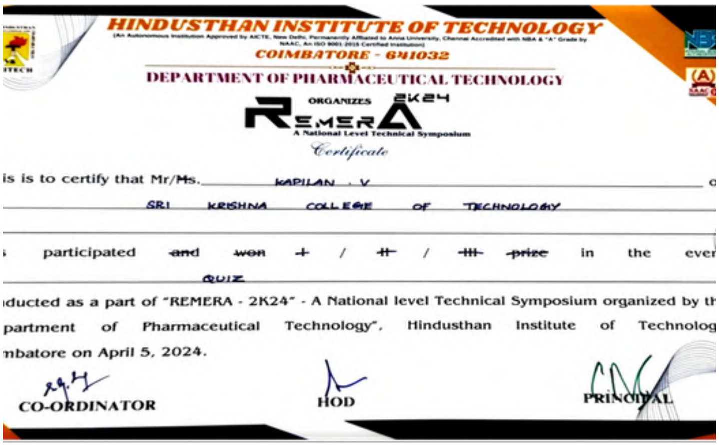
This is to certify that Mr/Ms. DINESH . S of SRI KRISHNA COLLEGE OF TECHNOLOGY. has participated ~~and~~ ~~won~~ ~~I~~ / ~~II~~ / ~~III~~ ~~prize~~ in the event QUIZ. conducted as a part of "REMERA - 2K24" - A National level Technical Symposium organized by the "Department of Pharmaceutical Technology", Hindusthan Institute of Technology, Coimbatore on April 5, 2024.

CO-ORDINATOR HOD PRINCIPAL


HINDUSTHAN INSTITUTE OF TECHNOLOGY
(An Autonomous Institution Approved by AICTE, New Delhi, Permanently Affiliated to Anna University, Chennai Accredited with NBA & "A" Grade by NAAC, An ISO 9001:2015 Certified Institution)
COIMBATORE - 641032
DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
ORGANIZES
REMERA 2K24
A National Level Technical Symposium
Certificate

This is to certify that Mr/~~Ms~~. HARIHARAN. K. S. of SRI KRISHNA COLLEGE OF TECHNOLOGY. has participated ~~and~~ ~~won~~ ~~I~~ / ~~II~~ / ~~III~~ ~~prize~~ in the event QUIZ conducted as a part of "REMERA - 2K24" - A National level Technical Symposium organized by the "Department of Pharmaceutical Technology", Hindusthan Institute of Technology, Coimbatore on April 5, 2024.

CO-ORDINATOR HOD PRINCIPAL


HINDUSTHAN INSTITUTE OF TECHNOLOGY
(An Autonomous Institution Approved by AICTE, New Delhi, Permanently Affiliated to Anna University, Chennai Accredited with NBA & "A" Grade by NAAC, An ISO 9001:2015 Certified Institution)
COIMBATORE - 641032
DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
ORGANIZES
REMERA 2K24
A National Level Technical Symposium
Certificate

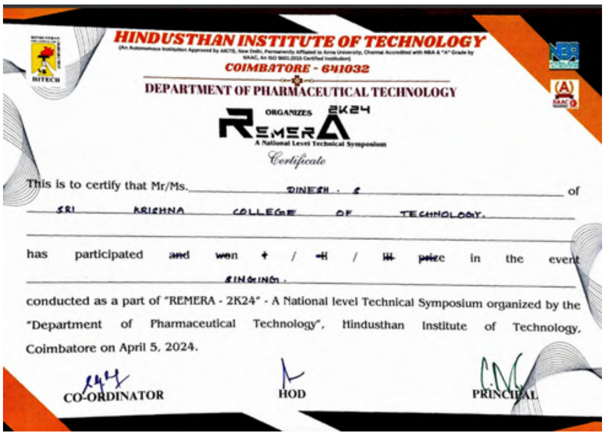
is is to certify that Mr/~~Ms~~. KAPILAN . V o
SRI KRISHNA COLLEGE OF TECHNOLOGY
participated ~~and~~ ~~won~~ ~~I~~ / ~~II~~ / ~~III~~ ~~prize~~ in the ever
QUIZ
iducted as a part of "REMERA - 2K24" - A National level Technical Symposium organized by th
partment of Pharmaceutical Technology", Hindusthan Institute of Technolog
nbatore on April 5, 2024.

CO-ORDINATOR HOD PRINCIPAL

STUDENTS PARTICIPATION

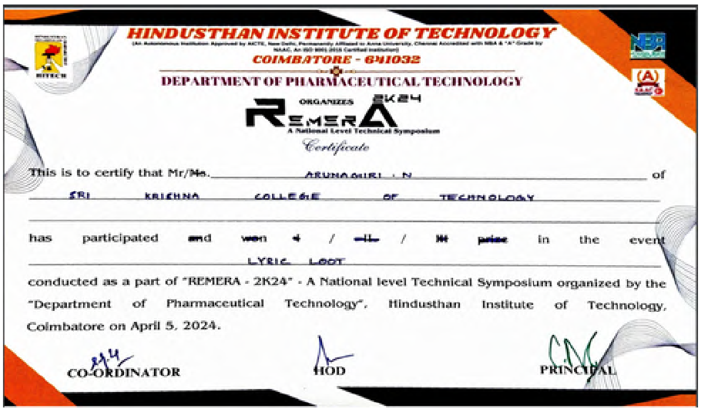
ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS


HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE - 641032
DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
ORGANIZES REMERA 2K24
A National Level Technical Symposium
Certificate

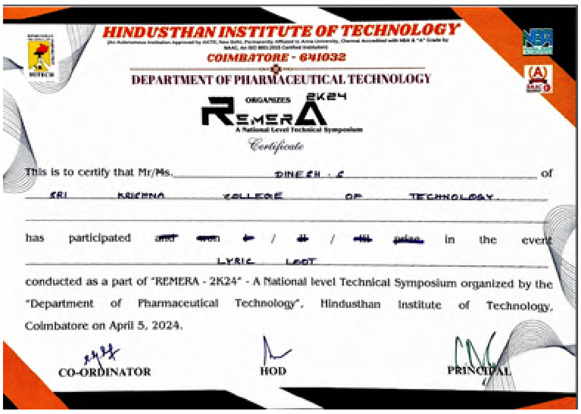
This is to certify that Mr/Ms. DINESH . S of SRI KRISHNA COLLEGE OF TECHNOLOGY. has participated ~~and~~ ~~won~~ ~~I~~ / ~~II~~ / ~~III~~ ~~prize~~ in the event SINGING. conducted as a part of "REMERA - 2K24" - A National level Technical Symposium organized by the "Department of Pharmaceutical Technology", Hindusthan Institute of Technology, Coimbatore on April 5, 2024.

CO-ORDINATOR HOD PRINCIPAL


HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE - 641032
DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
ORGANIZES REMERA 2K24
A National Level Technical Symposium
Certificate

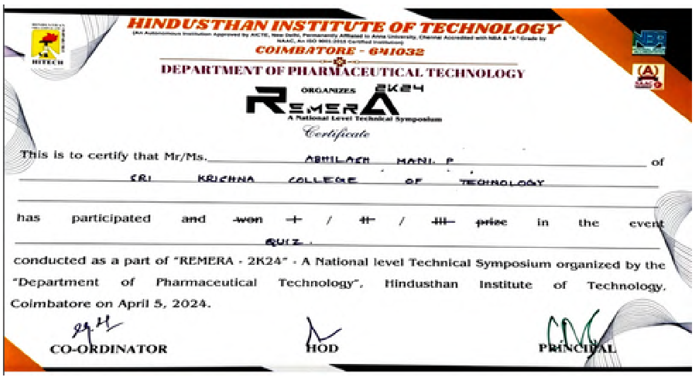
This is to certify that Mr/~~Ms~~. ARUNAGIRI . N of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated ~~and~~ ~~won~~ ~~I~~ / ~~II~~ / ~~III~~ ~~prize~~ in the event LYRIC LOOT conducted as a part of "REMERA - 2K24" - A National level Technical Symposium organized by the "Department of Pharmaceutical Technology", Hindusthan Institute of Technology, Coimbatore on April 5, 2024.

CO-ORDINATOR HOD PRINCIPAL


HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE - 641032
DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
ORGANIZES REMERA 2K24
A National Level Technical Symposium
Certificate

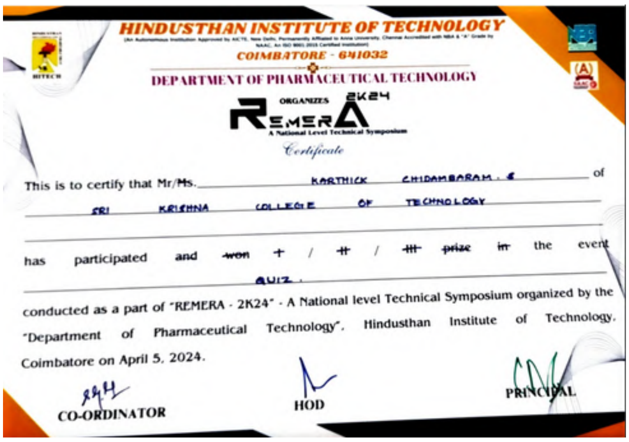
This is to certify that Mr/Ms. DINESH . S of SRI KRISHNA COLLEGE OF TECHNOLOGY. has participated ~~and~~ ~~won~~ ~~I~~ / ~~II~~ / ~~III~~ ~~prize~~ in the event LYRIC LOOT conducted as a part of "REMERA - 2K24" - A National level Technical Symposium organized by the "Department of Pharmaceutical Technology", Hindusthan Institute of Technology, Coimbatore on April 5, 2024.

CO-ORDINATOR HOD PRINCIPAL


HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE - 641032
DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
ORGANIZES REMERA 2K24
A National Level Technical Symposium
Certificate

This is to certify that Mr/Ms. ABHILASH MANI . P of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated and ~~won~~ ~~I~~ / ~~II~~ / ~~III~~ ~~prize~~ in the event QUIZ. conducted as a part of "REMERA - 2K24" - A National level Technical Symposium organized by the "Department of Pharmaceutical Technology", Hindusthan Institute of Technology, Coimbatore on April 5, 2024.

CO-ORDINATOR HOD PRINCIPAL


HINDUSTHAN INSTITUTE OF TECHNOLOGY
COIMBATORE - 641032
DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
ORGANIZES REMERA 2K24
A National Level Technical Symposium
Certificate

This is to certify that Mr/~~Ms~~. KARTHICK CHIDAMBARAM . S of SRI KRISHNA COLLEGE OF TECHNOLOGY has participated and ~~won~~ ~~I~~ / ~~II~~ / ~~III~~ ~~prize~~ ~~in~~ the event QUIZ. conducted as a part of "REMERA - 2K24" - A National level Technical Symposium organized by the "Department of Pharmaceutical Technology", Hindusthan Institute of Technology, Coimbatore on April 5, 2024.

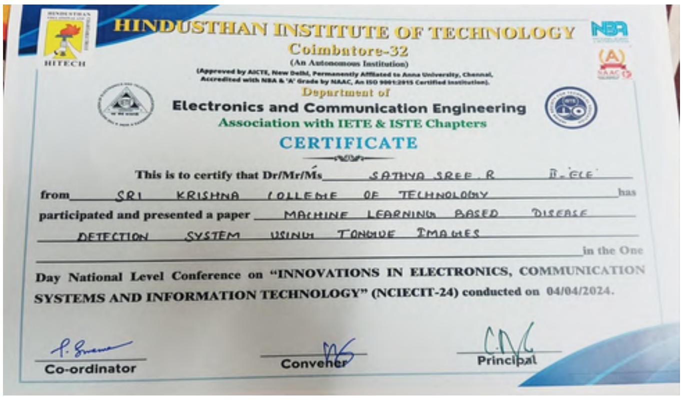
CO-ORDINATOR HOD PRINCIPAL

STUDENTS PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

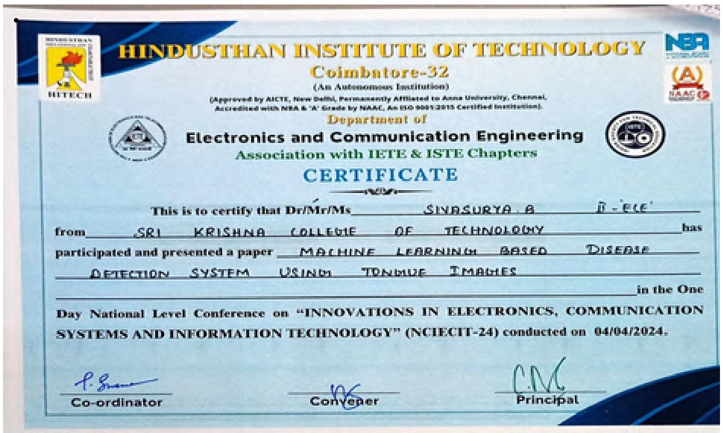
Ms Siva Surya B and Ms Sathyashree R, Second B.E. ECE, **participated in a National level conference** on "Innovations in Electronics, Communication Systems and Information Technology" and presented a paper on **"MACHINE LEARNING BASED DISEASE DETECTION SYSTEM USING TONGUE IMAGES"** organized by Hindustan Institute of technology, Coimbatore on 04.04.2024.



HINDUSTHAN INSTITUTE OF TECHNOLOGY
Coimbatore-32
(An Autonomous Institution)
(Approved by AICTE, New Delhi, Permanently Affiliated to Anna University, Chennai, Accredited with NBA & 'A' Grade by NAAC, An ISO 9001:2015 Certified Institution).
Department of
Electronics and Communication Engineering
Association with IETE & ISTE Chapters
CERTIFICATE

This is to certify that Dr/Mr/Ms SATHYA SREE . R B.ECE from SRI KRISHNA COLLEGE OF TECHNOLOGY has participated and presented a paper MACHINE LEARNING BASED DISEASE DETECTION SYSTEM USING TONGUE IMAGES in the One Day National Level Conference on "INNOVATIONS IN ELECTRONICS, COMMUNICATION SYSTEMS AND INFORMATION TECHNOLOGY" (NCIECIT-24) conducted on 04/04/2024.

Co-ordinator Convener Principal



HINDUSTHAN INSTITUTE OF TECHNOLOGY
Coimbatore-32
(An Autonomous Institution)
(Approved by AICTE, New Delhi, Permanently Affiliated to Anna University, Chennai, Accredited with NBA & 'A' Grade by NAAC, An ISO 9001:2015 Certified Institution).
Department of
Electronics and Communication Engineering
Association with IETE & ISTE Chapters
CERTIFICATE

This is to certify that Dr/Mr/Ms SIVASURYA . B B.ECE from SRI KRISHNA COLLEGE OF TECHNOLOGY has participated and presented a paper MACHINE LEARNING BASED DISEASE DETECTION SYSTEM USING TONGUE IMAGES in the One Day National Level Conference on "INNOVATIONS IN ELECTRONICS, COMMUNICATION SYSTEMS AND INFORMATION TECHNOLOGY" (NCIECIT-24) conducted on 04/04/2024.

Co-ordinator Convener Principal

STUDENTS PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Ms Subhadharani M and Ms Sree Yazhini M of Second B.E. ECE, **participated in a National level conference** on "Innovations in Electronics, Communication systems and Information technology" and presented a paper on **"Health Tracking System for Elderly People using LoRa Communication"** organized by Hindustan Institute of Technology,, Coimbatore on 04.04.2024.

STUDENTS PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr Athul Krishna U, Mr Dhakschin Vishak M, Mr Chandru V and Mr Syed Namaan S of Second B.E. ECE **participated in a National level conference** on "Innovations in Electronics, Communication systems and Information Technology" and presented a paper on **"Luggage Theft Identification and Smart Lock using Face Recognition"** organized by Hindustan Institute of Technology, Coimbatore on 04.04.2024.

STUDENTS PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr Akshay Kumar P, Mr Dharshan K, Mr Gowshick Raja B of Second B.E. ECE **participated in a National level conference** on "Innovations in Electronics, Communication Systems and Information Technology" and presented a paper on **"Monitoring Mental Health and Care"** organized by Hindustan Institute of Technology, Coimbatore on 04.04.2024.

STUDENTS PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr Arun Raj A, Mr Guru Sangar M, Mr Boobalan S, Mr Akshay G V, Mr Dharshan Kuru Sangar M, Mr Boobalan S, Mr Akshay G V, Mr Deo Williams S and Mr Dharshan K of Second B.E. ECE **participated in a Technical and Non-technical events** on Coding Zenith, IPL auction, Ideathon, Paper Presentation organized by Kongu Engineering College, Erode on 02.04.2024.

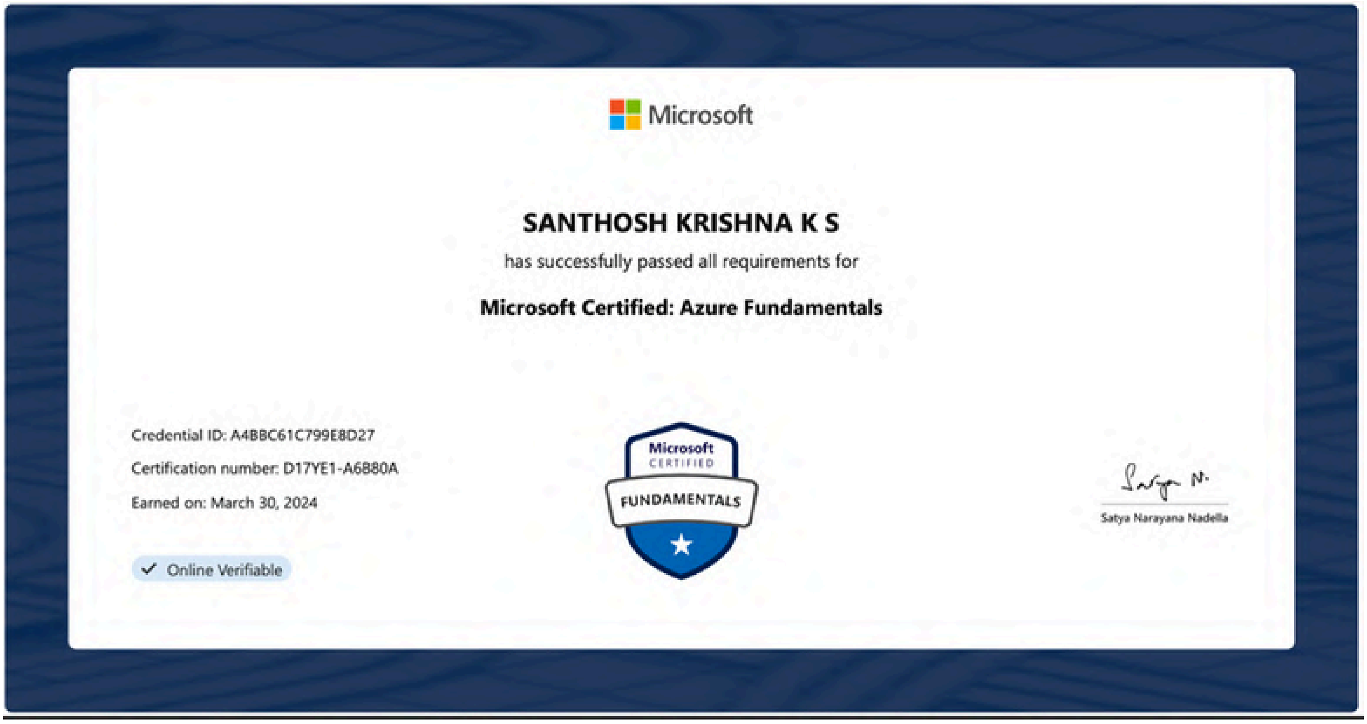
AUTOMOBILE ENGINEERING DEPARTMENT
KONGU ENGINEERING COLLEGE
PERUNDURAI, ERODE - 638060
DEPARTMENT OF
ARTIFICIAL INTELLIGENCE
2024, 16:32

STUDENTS PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr Santhosh Krishna K S, Second B.E. ECE, has been **certified with Microsoft Certified: Azure Fundamentals** on 30 March 2024.



Microsoft

SANTHOSH KRISHNA K S

has successfully passed all requirements for

Microsoft Certified: Azure Fundamentals

Credential ID: A4BBC61C799E8D27

Certification number: D17YE1-A6B80A

Earned on: March 30, 2024

✓ Online Verifiable

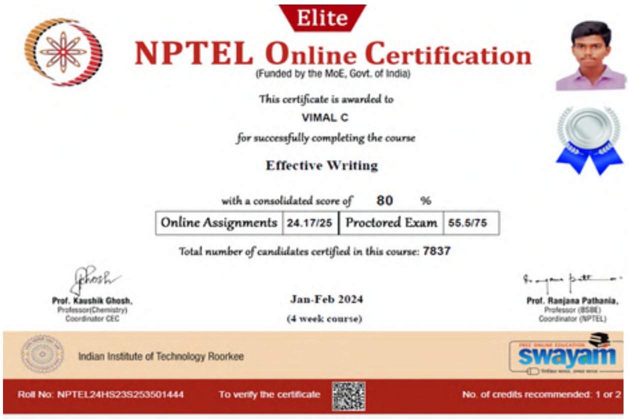
Microsoft CERTIFIED
FUNDAMENTALS

Satya Narayana Nadella

STUDENT PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL CERTIFICATIONS



Elite

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

This certificate is awarded to
VIMAL C
for successfully completing the course
Effective Writing

with a consolidated score of 80 %

Online Assignments	24.17/25	Proctored Exam	55.5/75

Total number of candidates certified in this course: 7837

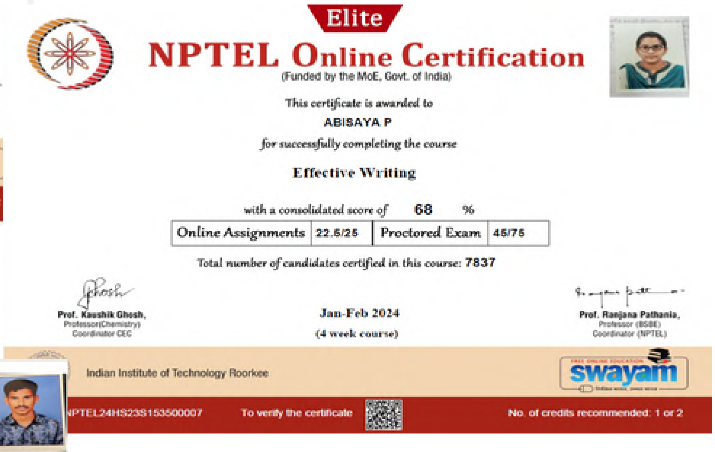
Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL24HS23S253501444 To verify the certificate No. of credits recommended: 1 or 2



Elite

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

This certificate is awarded to
ABISAYA P
for successfully completing the course
Effective Writing

with a consolidated score of 68 %

Online Assignments	22.5/25	Proctored Exam	45/75

Total number of candidates certified in this course: 7837

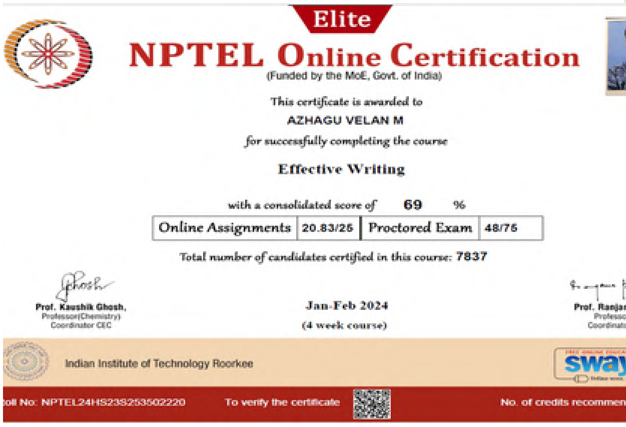
Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

NPTEL24HS23S153500007 To verify the certificate No. of credits recommended: 1 or 2



Elite

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

This certificate is awarded to
AZHAGU VELAN M
for successfully completing the course
Effective Writing

with a consolidated score of 69 %

Online Assignments	20.83/25	Proctored Exam	48/75

Total number of candidates certified in this course: 7837

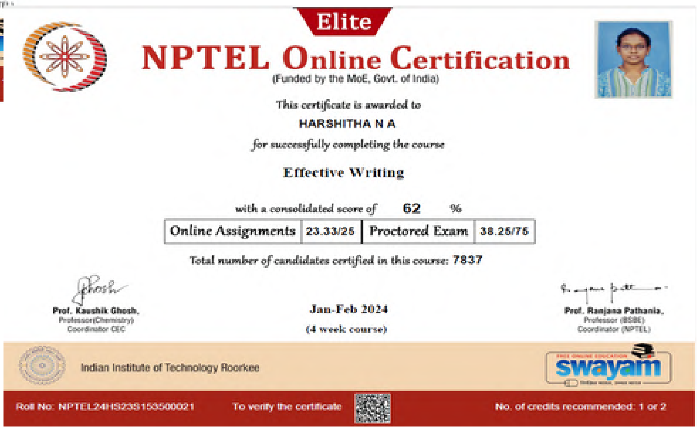
Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTE

Indian Institute of Technology Roorkee

oll No: NPTEL24HS23S253502220 To verify the certificate No. of credits recommended:



Elite

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

This certificate is awarded to
HARSHITHA N A
for successfully completing the course
Effective Writing

with a consolidated score of 62 %

Online Assignments	23.33/25	Proctored Exam	38.25/75

Total number of candidates certified in this course: 7837

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

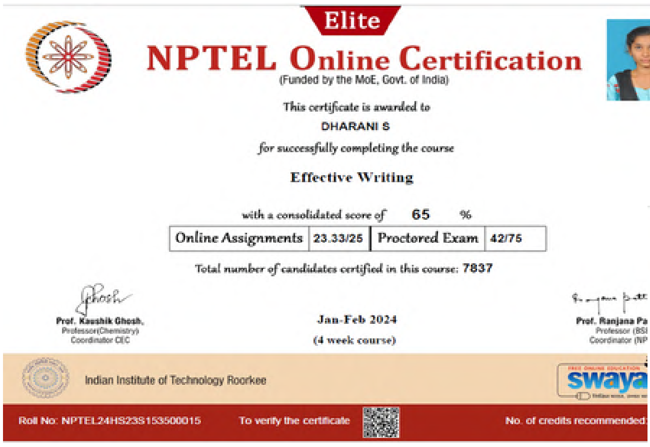
Indian Institute of Technology Roorkee

Roll No: NPTEL24HS23S153500021 To verify the certificate No. of credits recommended: 1 or 2

STUDENTS PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL CERTIFICATIONS



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DHARANI S

for successfully completing the course

Effective Writing

with a consolidated score of 65 %

Online Assignments	23.33/25	Proctored Exam	42/75

Total number of candidates certified in this course: 7837

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

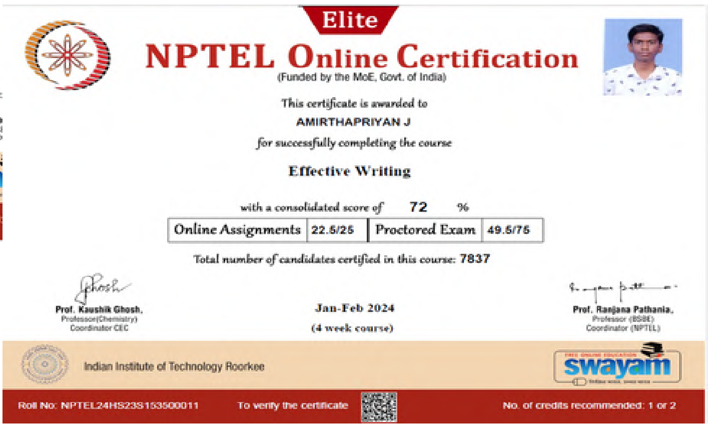
Jan-Feb 2024
(4 week course)

Prof. Ranjana Pa
Professor (BSI
Coordinator (NP

Indian Institute of Technology Roorkee

swaya

Roll No: NPTEL24HS23S153500015 To verify the certificate No. of credits recommended:



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

AMIRTHAPRIYAN J

for successfully completing the course

Effective Writing

with a consolidated score of 72 %

Online Assignments	22.5/25	Proctored Exam	49.5/75

Total number of candidates certified in this course: 7837

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

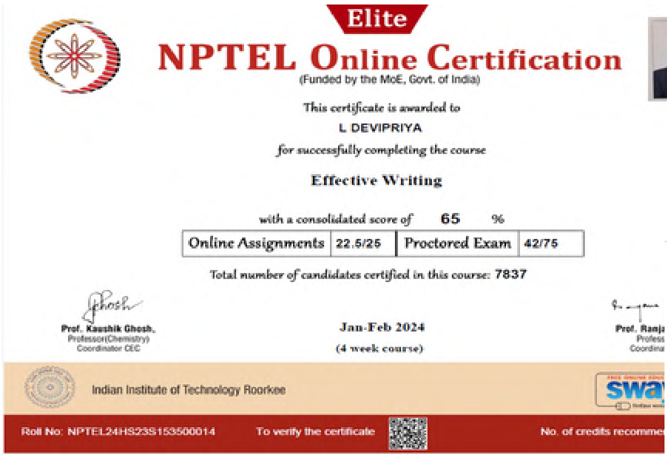
Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL24HS23S153500011 To verify the certificate No. of credits recommended: 1 or 2



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

L DEVIPRIYA

for successfully completing the course

Effective Writing

with a consolidated score of 65 %

Online Assignments	22.5/25	Proctored Exam	42/75

Total number of candidates certified in this course: 7837

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

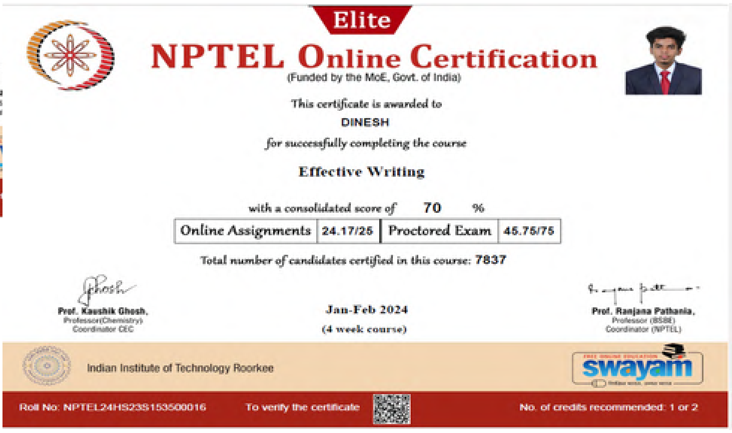
Jan-Feb 2024
(4 week course)

Prof. Ranja
Profess
Coordina

Indian Institute of Technology Roorkee

sway

Roll No: NPTEL24HS23S153500014 To verify the certificate No. of credits recomme



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DINESH

for successfully completing the course

Effective Writing

with a consolidated score of 70 %

Online Assignments	24.17/25	Proctored Exam	45.75/75

Total number of candidates certified in this course: 7837

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

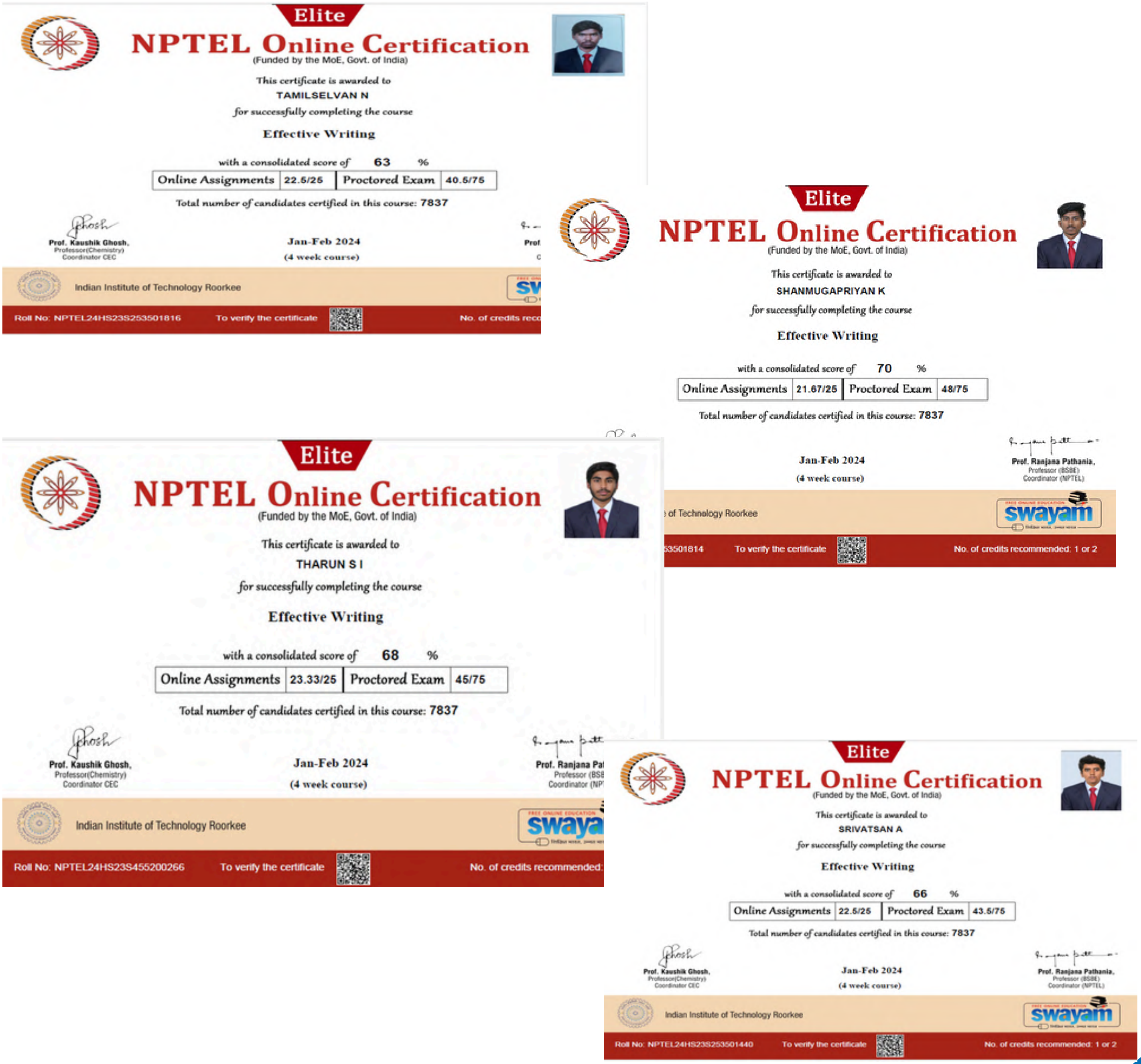
swayam

Roll No: NPTEL24HS23S153500016 To verify the certificate No. of credits recommended: 1 or 2

STUDENTS PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL CERTIFICATIONS



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

TAMILSELVAN N

for successfully completing the course

Effective Writing

with a consolidated score of 63 %

Online Assignments	22.5/25	Proctored Exam	40.5/75

Total number of candidates certified in this course: 7837

Ghosh
Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof
C

Indian Institute of Technology Roorkee

Roll No: NPTEL24HS23S253501816 To verify the certificate No. of credits reco

---

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SHANMUGAPRIYAN K

for successfully completing the course

Effective Writing

with a consolidated score of 70 %

Online Assignments	21.67/25	Proctored Exam	48/75

Total number of candidates certified in this course: 7837

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

of Technology Roorkee

swayam

53501814 To verify the certificate No. of credits recommended: 1 or 2

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

THARUN S I

for successfully completing the course

Effective Writing

with a consolidated score of 68 %

Online Assignments	23.33/25	Proctored Exam	45/75

Total number of candidates certified in this course: 7837

Ghosh
Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pat
Professor (BSE
Coordinator (NP

Indian Institute of Technology Roorkee

swaya

Roll No: NPTEL24HS23S455200266 To verify the certificate No. of credits recommended:

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SRIVATSAN A

for successfully completing the course

Effective Writing

with a consolidated score of 66 %

Online Assignments	22.5/25	Proctored Exam	43.5/75

Total number of candidates certified in this course: 7837

Ghosh
Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

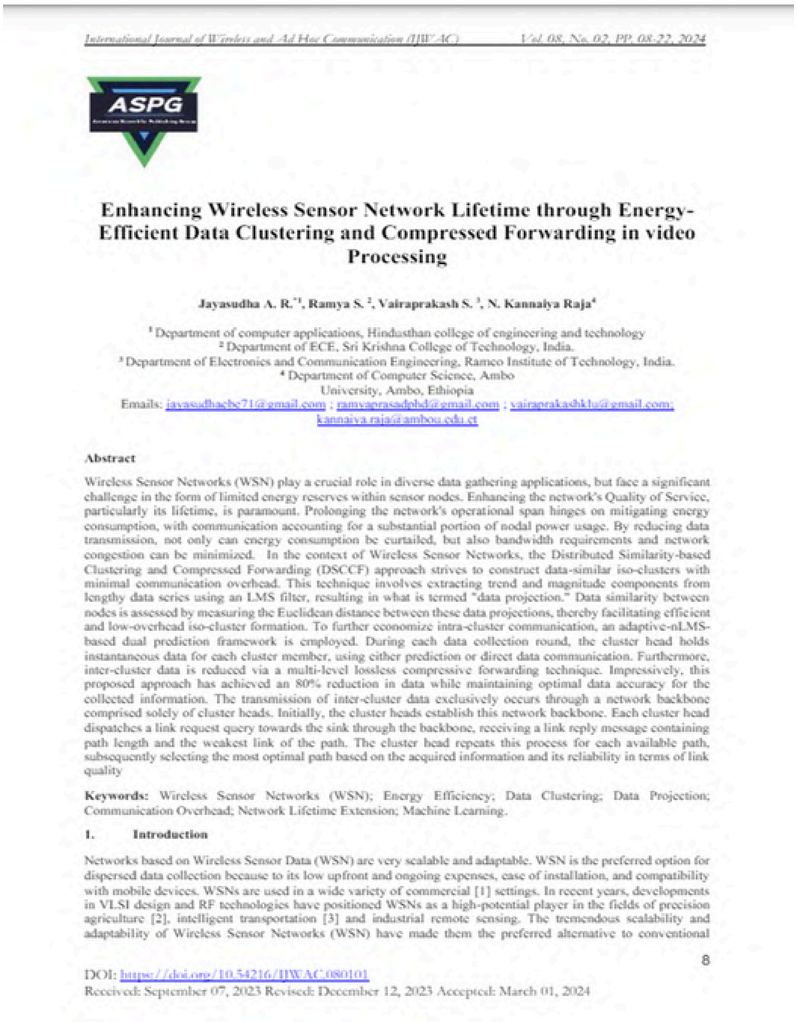
swayam

Roll No: NPTEL24HS23S253501440 To verify the certificate No. of credits recommended: 1 or 2

STUDENTS PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

Dr S Ramya, Assistant Professor, Department of ECE, published a paper on **"Narrow and Wide Band Monopole Antenna Design using Heterogeneous Bidirectional Recurrent Neural Network for LTE and UWB Applications"** in an International Journal of Communication during March 2024. https://doi.org/10.1002/dac.5763.



International Journal of Wireless and Ad Hoc Communication (IJWAC) *Vol. 08, No. 02, PP. 08-22, 2024*

Enhancing Wireless Sensor Network Lifetime through Energy-Efficient Data Clustering and Compressed Forwarding in video Processing

Jayasudha A. R.[*1], Ramya S. [2], Vairaprakash S. [3], N. Kannaiya Raja[4]

[1] Department of computer applications, Hindusthan college of engineering and technology
[2] Department of ECE, Sri Krishna College of Technology, India.
[3] Department of Electronics and Communication Engineering, Ramco Institute of Technology, India.
[4] Department of Computer Science, Ambo
University, Ambo, Ethiopia
Emails: jayasudhacbe71@gmail.com ; ramyaprasadphd@gmail.com ; vairaprakashklu@gmail.com; kannaiya.raja@ambou.edu.et

Abstract

Wireless Sensor Networks (WSN) play a crucial role in diverse data gathering applications, but face a significant challenge in the form of limited energy reserves within sensor nodes. Enhancing the network's Quality of Service, particularly its lifetime, is paramount. Prolonging the network's operational span hinges on mitigating energy consumption, with communication accounting for a substantial portion of nodal power usage. By reducing data transmission, not only can energy consumption be curtailed, but also bandwidth requirements and network congestion can be minimized. In the context of Wireless Sensor Networks, the Distributed Similarity-based Clustering and Compressed Forwarding (DSCCF) approach strives to construct data-similar iso-clusters with minimal communication overhead. This technique involves extracting trend and magnitude components from lengthy data series using an LMS filter, resulting in what is termed "data projection." Data similarity between nodes is assessed by measuring the Euclidean distance between these data projections, thereby facilitating efficient and low-overhead iso-cluster formation. To further economize intra-cluster communication, an adaptive-nLMS-based dual prediction framework is employed. During each data collection round, the cluster head holds instantaneous data for each cluster member, using either prediction or direct data communication. Furthermore, inter-cluster data is reduced via a multi-level lossless compressive forwarding technique. Impressively, this proposed approach has achieved an 80% reduction in data while maintaining optimal data accuracy for the collected information. The transmission of inter-cluster data exclusively occurs through a network backbone comprised solely of cluster heads. Initially, the cluster heads establish this network backbone. Each cluster head dispatches a link request query towards the sink through the backbone, receiving a link reply message containing path length and the weakest link of the path. The cluster head repeats this process for each available path, subsequently selecting the most optimal path based on the acquired information and its reliability in terms of link quality

Keywords: Wireless Sensor Networks (WSN); Energy Efficiency; Data Clustering; Data Projection; Communication Overhead; Network Lifetime Extension; Machine Learning.

1. Introduction

Networks based on Wireless Sensor Data (WSN) are very scalable and adaptable. WSN is the preferred option for dispersed data collection because to its low upfront and ongoing expenses, ease of installation, and compatibility with mobile devices. WSNs are used in a wide variety of commercial [1] settings. In recent years, developments in VLSI design and RF technologies have positioned WSNs as a high-potential player in the fields of precision agriculture [2], intelligent transportation [3] and industrial remote sensing. The tremendous scalability and adaptability of Wireless Sensor Networks (WSN) have made them the preferred alternative to conventional

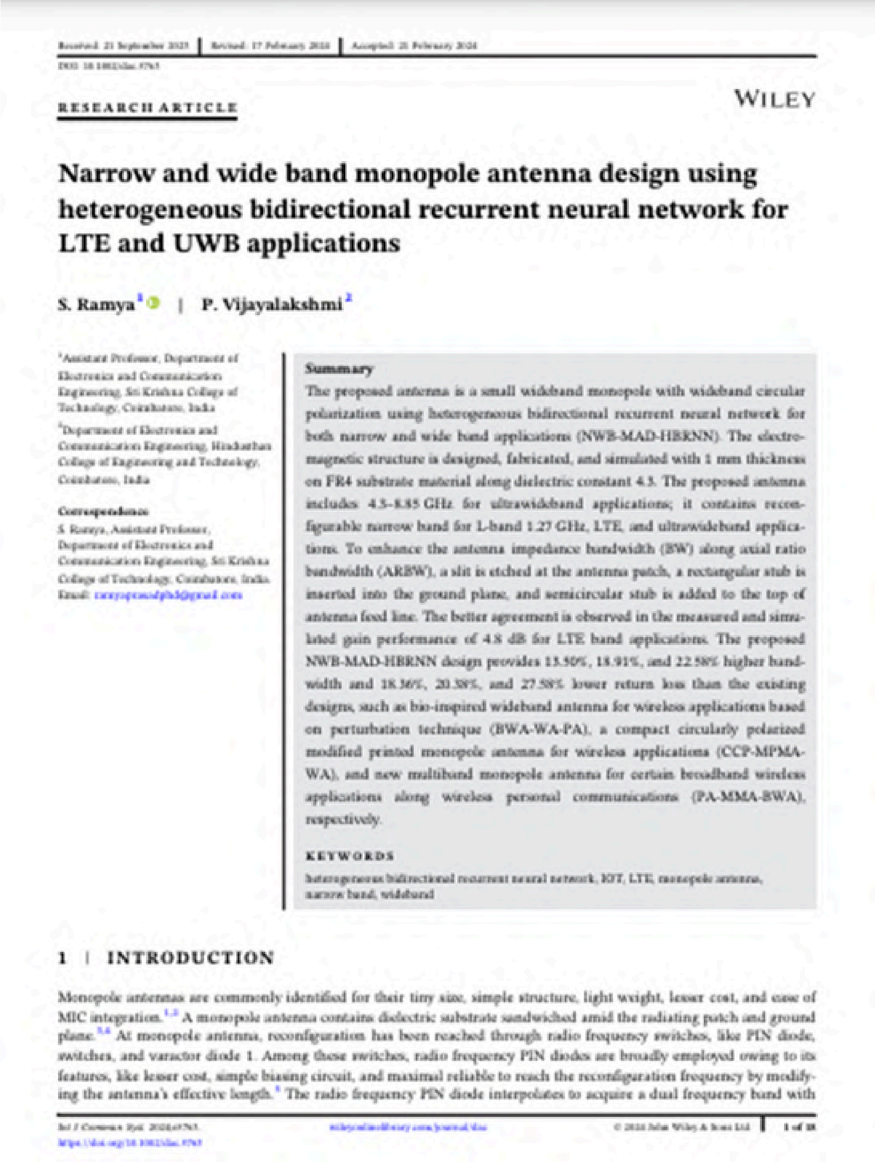
8

DOI: https://doi.org/10.54216/IJWAC.080101
Received: September 07, 2023 Revised: December 12, 2023 Accepted: March 01, 2024

FACULTY PUBLICATION

ELECTRONICS AND COMMUNICATION ENGINEERING

Dr S Ramya, Assistant Professor, Department of ECE, published a paper on **"Enhancing Wireless Sensor Network Lifetime through Energy Efficient Data Clustering and Compressed Forwarding in video Processing"** in an International Journal of Wireless and Ad Hoc Communication (IJWAC). https://doi.org/10.54216/IJWAC.080101.



Received: 21 September 2023 | Revised: 17 February 2024 | Accepted: 21 February 2024

RESEARCH ARTICLE

WILEY

Narrow and wide band monopole antenna design using heterogeneous bidirectional recurrent neural network for LTE and UWB applications

S. Ramya[1] | P. Vijayalakshmi[2]

[1]Assistant Professor, Department of Electronics and Communication Engineering, Sri Krishna College of Technology, Coimbatore, India

[2]Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology, Coimbatore, India

Correspondence
S. Ramya, Assistant Professor, Department of Electronics and Communication Engineering, Sri Krishna College of Technology, Coimbatore, India.

Summary

The proposed antenna is a small wideband monopole with wideband circular polarization using heterogeneous bidirectional recurrent neural network for both narrow and wide band applications (NWB-MAD-HBRNN). The electromagnetic structure is designed, fabricated, and simulated with 1 mm thickness on FR4 substrate material along dielectric constant 4.3. The proposed antenna includes 4.5–8.85 GHz for ultrawideband applications; it contains reconfigurable narrow band for L-band 1.27 GHz, LTE, and ultrawideband applications. To enhance the antenna impedance bandwidth (BW) along axial ratio bandwidth (ARBW), a slit is etched at the antenna patch, a rectangular stub is inserted into the ground plane, and semicircular stub is added to the top of antenna feed line. The better agreement is observed in the measured and simulated gain performance of 4.8 dB for LTE band applications. The proposed NWB-MAD-HBRNN design provides 13.50%, 18.91%, and 22.58% higher bandwidth and 18.36%, 20.58%, and 27.58% lower return loss than the existing designs, such as bio-inspired wideband antenna for wireless applications based on perturbation technique (BWA-WA-PA), a compact circularly polarized modified printed monopole antenna for wireless applications (CCP-MPMA-WA), and new multiband monopole antenna for certain broadband wireless applications along wireless personal communications (PA-MMA-BWA), respectively.

KEYWORDS

heterogeneous bidirectional recurrent neural network, IOT, LTE, monopole antenna, narrow band, wideband

1 | INTRODUCTION

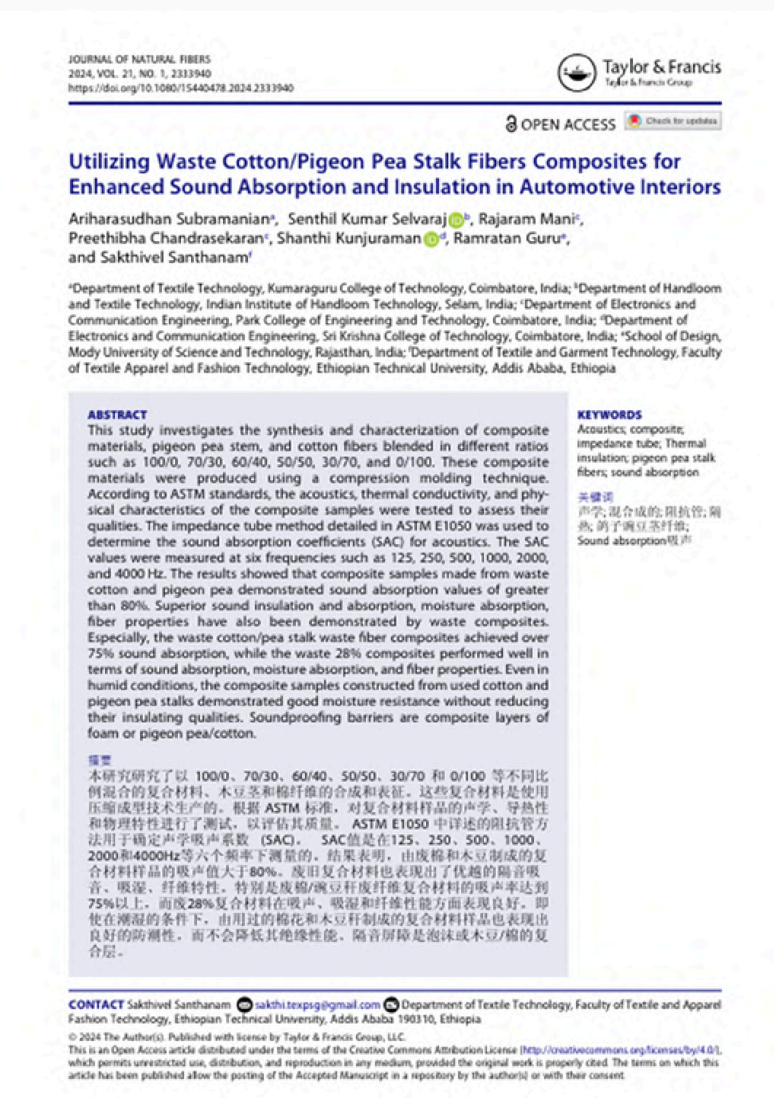
Monopole antennas are commonly identified for their tiny size, simple structure, light weight, lesser cost, and ease of MIC integration.[1,2] A monopole antenna contains dielectric substrate sandwiched amid the radiating patch and ground plane.[3,4] At monopole antenna, reconfiguration has been reached through radio frequency switches, like PIN diode, switches, and varactor diode 1. Among these switches, radio frequency PIN diodes are broadly employed owing to its features, like lesser cost, simple biasing circuit, and maximal reliable to reach the reconfiguration frequency by modifying the antenna's effective length.[5] The radio frequency PIN diode interpolates to acquire a dual frequency band with

© 2024 John Wiley & Sons Ltd. | 1 of 18

FACULTY PUBLICATION

ELECTRONICS AND COMMUNICATION ENGINEERING

Dr K Shanthi, Associate Professor, Department of ECE, published a research article on “**Utilizing Waste Cotton/Pigeon Pea Stalk Fibers Composites for Enhanced Sound Absorption and Insulation in Automotive Interiors**” in a Journal of Natural Fibers published by Taylor & Francis (SCI Indexed - Q2 Journal).



JOURNAL OF NATURAL FIBERS
2024, VOL. 21, NO. 1, 2333940
https://doi.org/10.1080/15440478.2024.2333940

Taylor & Francis
Taylor & Francis Group

OPEN ACCESS Check for updates

Utilizing Waste Cotton/Pigeon Pea Stalk Fibers Composites for Enhanced Sound Absorption and Insulation in Automotive Interiors

Ariharasudhan Subramanian[a], Senthil Kumar Selvaraj[b], Rajaram Mani[c], Preethibha Chandrasekaran[c], Shanthi Kunjuraman[d], Ramratan Guru[e], and Sakthivel Santhanam[f]

[a]Department of Textile Technology, Kumaraguru College of Technology, Coimbatore, India; [b]Department of Handloom and Textile Technology, Indian Institute of Handloom Technology, Selam, India; [c]Department of Electronics and Communication Engineering, Park College of Engineering and Technology, Coimbatore, India; [d]Department of Electronics and Communication Engineering, Sri Krishna College of Technology, Coimbatore, India; [e]School of Design, Mody University of Science and Technology, Rajasthan, India; [f]Department of Textile and Garment Technology, Faculty of Textile Apparel and Fashion Technology, Ethiopian Technical University, Addis Ababa, Ethiopia

ABSTRACT

This study investigates the synthesis and characterization of composite materials, pigeon pea stem, and cotton fibers blended in different ratios such as 100/0, 70/30, 60/40, 50/50, 30/70, and 0/100. These composite materials were produced using a compression molding technique. According to ASTM standards, the acoustics, thermal conductivity, and physical characteristics of the composite samples were tested to assess their qualities. The impedance tube method detailed in ASTM E1050 was used to determine the sound absorption coefficients (SAC) for acoustics. The SAC values were measured at six frequencies such as 125, 250, 500, 1000, 2000, and 4000 Hz. The results showed that composite samples made from waste cotton and pigeon pea demonstrated sound absorption values of greater than 80%. Superior sound insulation and absorption, moisture absorption, fiber properties have also been demonstrated by waste composites. Especially, the waste cotton/pea stalk waste fiber composites achieved over 75% sound absorption, while the waste 28% composites performed well in terms of sound absorption, moisture absorption, and fiber properties. Even in humid conditions, the composite samples constructed from used cotton and pigeon pea stalks demonstrated good moisture resistance without reducing their insulating qualities. Soundproofing barriers are composite layers of foam or pigeon pea/cotton.

摘要

本研究研究了以 100/0、70/30、60/40、50/50、30/70 和 0/100 等不同比例混合的复合材料、木豆茎和棉纤维的合成和表征。这些复合材料是使用压缩成型技术生产的。根据 ASTM 标准，对复合材料样品的声学、导热性和物理特性进行了测试，以评估其质量。 ASTM E1050 中详述的阻抗管方法用于确定声学吸声系数 (SAC)。 SAC值是在125、250、500、1000、2000和4000Hz等六个频率下测量的。结果表明，由废棉和木豆制成的复合材料样品的吸声值大于80%。废旧复合材料也表现出了优越的隔音吸音、吸湿、纤维特性。特别是废棉/豌豆秆废纤维复合材料的吸声率达到75%以上，而废28%复合材料在吸声、吸湿和纤维性能方面表现良好。即使在潮湿的条件下，由用过的棉花和木豆秆制成的复合材料样品也表现出良好的防潮性，而不会降低其绝缘性能。隔音屏障是泡沫或木豆/棉的复合层。

KEYWORDS

Acoustics; composite; impedance tube; Thermal insulation; pigeon pea stalk fibers; sound absorption

关键词

声学; 混合成的; 阻抗管; 隔热; 鸽子豌豆茎纤维; Sound absorption吸声

CONTACT Sakthivel Santhanam sakthi.texpsg@gmail.com Department of Textile Technology, Faculty of Textile and Apparel Fashion Technology, Ethiopian Technical University, Addis Ababa 190310, Ethiopia

© 2024 The Author(s). Published with license by Taylor & Francis Group, LLC.
This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. The terms on which this article has been published allow the posting of the Accepted Manuscript in a repository by the author(s) or with their consent.

FACULTY PUBLICATION

ELECTRONICS AND COMMUNICATION ENGINEERING

Dr S Prema, Assistant Professor, Department of ECE, published a research article on **"Two-Phase Authentication Mechanism for Intelligent Transport System (TAMITS) on VANET"** in an International Journal of Intelligent Systems and Applications in Engineering (Scopus Indexed).

International Journal of
INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING
IJISAE
ISSN:2147-6799 www.ijisae.org Original Research Paper

Two-Phase Authentication Mechanism for Intelligent Transport System (TAMITS) on VANET

S. Supriya[1]*, Gopika G. S.[2], D. Devi[3], S. Prema[4]

Submitted: 17/01/2024 **Revised**: 25/02/2024 **Accepted**: 03/03/2024

Abstract: Routing protocols in VANET are primarily determined by the vehicle's location. It is used for preventing basic collisions such as replay and position spoofing attacks. The absence of verification of the vehicle brings about harsh security collisions in VANET. Intelligent transportation systems are therefore proposed to use the Two-phase Authentication Mechanism for Intelligent Transport System (TAMITS) protocol on VANET, which uses a two-phase authentication mechanism. The vehicle's private and public keys are used to transfer data packets across the communication channel. Transmission in the VANET network is accomplished using geographic routing. This proposed solution employs two distinct rounds of location verification. The transmitted data packet is authenticated once it has been sent from the originating vehicle to its next neighboring vehicle. Finally, in the second stage, the increased distance bounding authentication approach is used to verify its location. In the VANET network, the suggested structure protects geographical routing using a location verification approach. On the basis of packet loss and delivery rates as well as throughput and end-to-end delay the TAMITS' performance is assessed. Riverbed Modeler 17.5 is used to simulate the results. By altering the number of vehicles and their speed, the proposed TAMITS protocol's performance is compared to that of the Geographical secure path routing (GSPR) protocol. Because of this, more packets can be sent to the VANET target vehicle via the TAMITS protocol.

Keywords: *Geographical secure path routing; Throughput; bounding; Packet loss ratio*

1. Introduction

Among Manufacturers have shown an interest in the relatively new technology of vehicle ad hoc networking (VANET). VANET is a promising profitable infrastructure framework used in various areas of applications. Vehicular Ad-hoc Network (VANET) deploys enhancing features such as providing safe, secure and comfortable driving to both the passenger and the driver. VANET is typically used for maintaining effective communication among the vehicles inside a network. Most of the applications in VANET have been used by automobile industries. VANET is exceptionally useful in providing real time data to vehicle clients, providing the notification identified with the post-crash, street side handle measures, and traffic identification ability. It is widely used and is a component of a healthy network request. Yet, VANETs are exposed to few dangers because of its security related difficulties like low resilience for error, high mobility, and so forth. The high rates of collisions like eavesdropping, session seizing on the vehicular system are avoided with the help of VANET applications [1]. Because of its high dynamic nature, wireless communication channel, and regularly changing topology, VANET has a very wide scope for attacks. Hence, the VANET is more prone to security threats and challenges.

VANET has faced many obstacles, due to its inherent characteristics such as random changes in system topology, unbounded system size and high mobility (Fonseca & Festag 2006). It is also subjected to several attacks like impersonation, session capturing, identity uncovering, location tracking, repudiation, eavesdropping and DoS[2]. Moreover, the location-based attacks on routing like Sybil attack and wormhole attack (Dok et al. 2010) pose major threats to VANET. To make VANET more secure and protected, it's critical to verify the network's location. This chapter proposes a new VANET TAMITS protocol in place of the current one. As previously mentioned, it's based on the GSPR protocol. It conducts Authentication checks to verify the vehicle's position before approving these data packets using a distance bounding approach.

1.1 Contribution

Rivas et al. (2011) have proposed the GSPR for protective path selection which presents a verification plan for information transmission without a location verification scheme. The SLV technique devised by Lin et al. (2008) proposed numerous schemes such as a distance bounding scheme, authentic verification, and estimation based on geographical region to validate the location of a vehicle [6]. A message does not provide the acknowledgement from the destination. Further, it cannot confirm the location of a

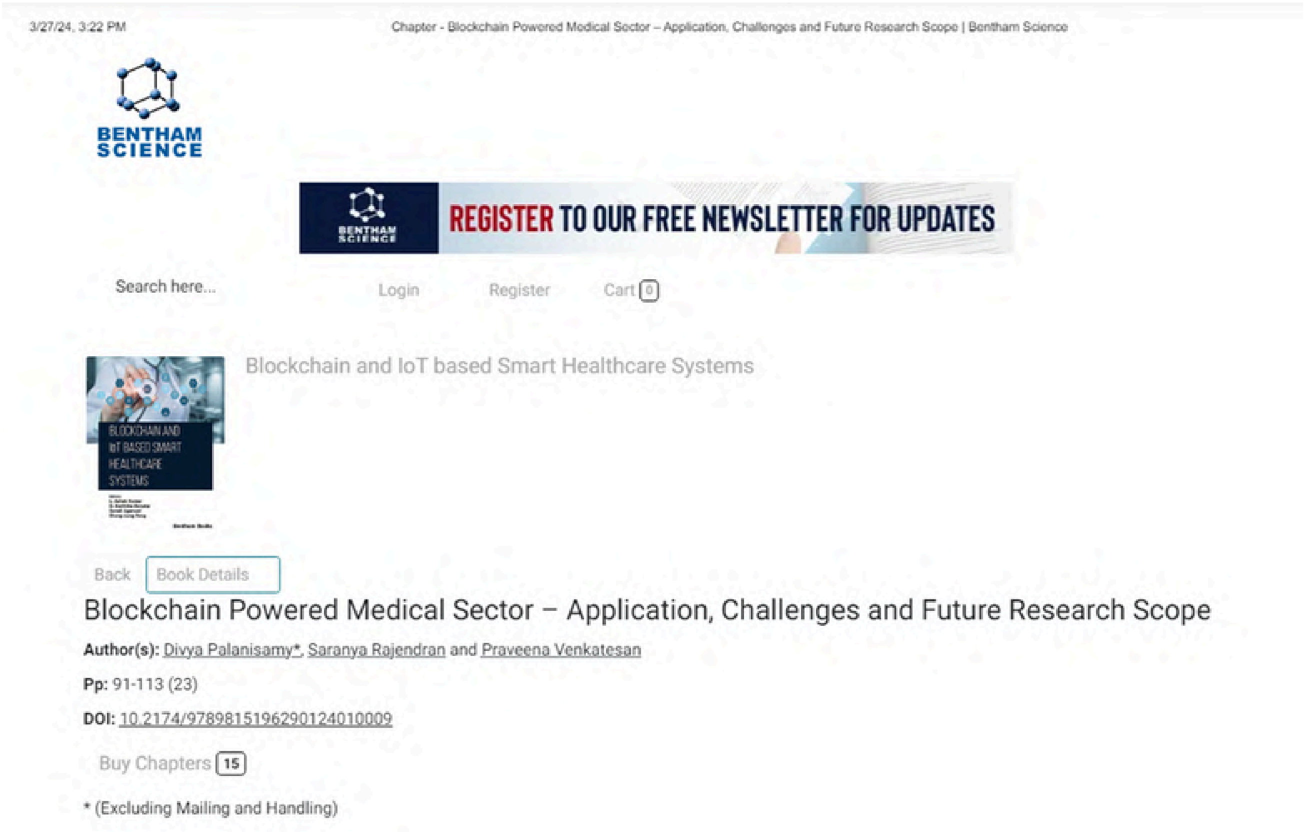
---

[1] *Assistant Professor, Department of CSE, Sathyabama Institute of Science and Technology, Chennai, Tami Nadu*
*Email: supriya.cse@sathyabama.ac.in**
[2] *Assistant Professor, Department of CSE ,Satyabhama Institute of Science and Technology, Chennai, Tami Nadu*
Email: gopikags41@gmail.com
[3] *Assistant Professor , Department of CSE, Sathyabama Institute of Sciencse and Technology, Chennai, Tami Nadu Email: devi.cse@sathyabama.ac.in*
[4] *Assistant Professor, Department of ECE, Sri Krishna College of Technology, Coimbatore. Email:prema.s@skct.edu.in*

FACULTY PUBLICATION

ELECTRONICS AND COMMUNICATION ENGINEERING

Dr P Divya, Assistant Professor, Department of ECE, published a book chapter on **"Blockchain Powered Medical Sector - Applications, Challenges and Future Research Scope"** in Bentham Science. DOI: 10.2174/9789815196290124010009.



3/27/24, 3:22 PM Chapter - Blockchain Powered Medical Sector – Application, Challenges and Future Research Scope | Bentham Science

BENTHAM SCIENCE
REGISTER TO OUR FREE NEWSLETTER FOR UPDATES
Search here...
Login
Register
Cart 0
BLOCKCHAIN AND IoT BASED SMART HEALTHCARE SYSTEMS
Back
Book Details
Buy Chapters 15

Blockchain and IoT based Smart Healthcare Systems

Blockchain Powered Medical Sector – Application, Challenges and Future Research Scope

Author(s): Divya Palanisamy*, Saranya Rajendran and Praveena Venkatesan

Pp: 91-113 (23)

DOI: 10.2174/9789815196290124010009

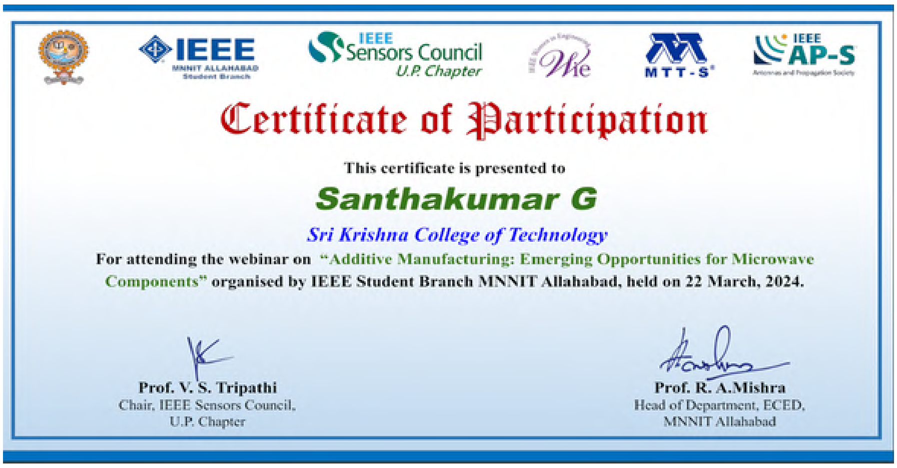
* (Excluding Mailing and Handling)

BOOK PUBLICATION

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Mr Santhakumar G, Assistant Professor, Department of ECE, attended a webinar on **"Additive Manufacturing: Emerging Opportunities for Microwave Components"** organized by IEEE Student Branch MNNIT Allahabad on 22 March 2024.



IEEE MNNIT ALLAHABAD Student Branch | IEEE Sensors Council U.P. Chapter | WIE | MTT-S | IEEE AP-S

Certificate of Participation

This certificate is presented to

Santhakumar G

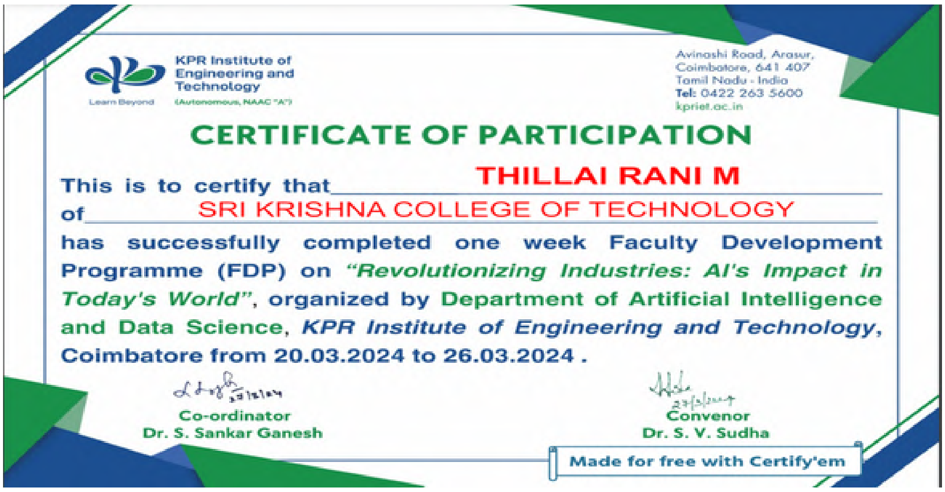
Sri Krishna College of Technology

For attending the webinar on "Additive Manufacturing: Emerging Opportunities for Microwave Components" organised by IEEE Student Branch MNNIT Allahabad, held on 22 March, 2024.

Prof. V. S. Tripathi
Chair, IEEE Sensors Council,
U.P. Chapter

Prof. R. A.Mishra
Head of Department, ECED,
MNNIT Allahabad

Dr M Thillai Rani, ASP completed one-week FDP on "**Revolutionizing Industries: AI's Impact in Today's World**" organized by KPR Institute of Engineering and Technology, Coimbatore during 20-26 March 2024.



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Avinashi Road, Arasur,
Coimbatore, 641 407
Tamil Nadu - India
Tel: 0422 263 5600
kpriet.ac.in

CERTIFICATE OF PARTICIPATION

This is to certify that THILLAI RANI M
of SRI KRISHNA COLLEGE OF TECHNOLOGY
has successfully completed one week Faculty Development Programme (FDP) on *"Revolutionizing Industries: AI's Impact in Today's World"*, organized by Department of Artificial Intelligence and Data Science, *KPR Institute of Engineering and Technology*, Coimbatore from 20.03.2024 to 26.03.2024 .

Co-ordinator
Dr. S. Sankar Ganesh

Convenor
Dr. S. V. Sudha

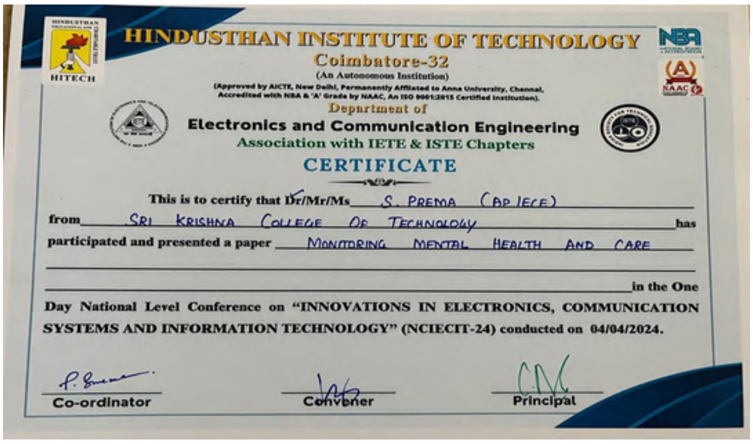
Made for free with Certify'em

FACULTY PARTICIPATIONS

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Dr S Prema, Assistant Professor, Department of ECE, participated in a paper presentation and presented a paper on **"Monitoring Mental Health and Care"** in a One-day National level Conference on "Innovations in Electronics, Communication Systems and Information Technology" conducted on 04.04.2024.

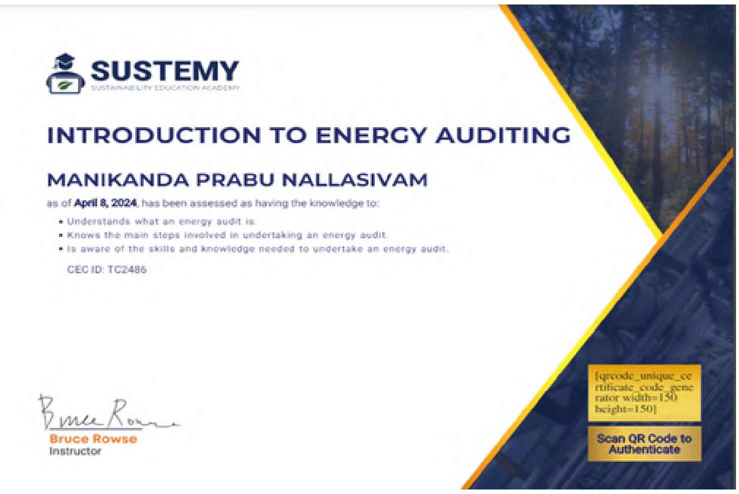


HINDUSTHAN INSTITUTE OF TECHNOLOGY
Coimbatore-32
(An Autonomous Institution)
(Approved by AICTE, New Delhi, Permanently Affiliated to Anna University, Chennai, Accredited with NBA & 'A' Grade by NAAC, An ISO 9001:2015 Certified Institution).
Department of
Electronics and Communication Engineering
Association with IETE & ISTE Chapters
CERTIFICATE

This is to certify that Dr/Mr/Ms S. PREMA (AP/ECE) from SRI KRISHNA COLLEGE OF TECHNOLOGY has participated and presented a paper MONITORING MENTAL HEALTH AND CARE in the One Day National Level Conference on "INNOVATIONS IN ELECTRONICS, COMMUNICATION SYSTEMS AND INFORMATION TECHNOLOGY" (NCIECIT-24) conducted on 04/04/2024.

Co-ordinator
Convener
Principal

Dr Manikanda Prabu Nallasivam, Assistant Professor, Department of ECE completed an **introductory course on Energy Auditing from the Sustainability Education Academy** on April 08, 2024.



SUSTEMY
SUSTAINABILITY EDUCATION ACADEMY

INTRODUCTION TO ENERGY AUDITING

MANIKANDA PRABU NALLASIVAM

as of **April 8, 2024**, has been assessed as having the knowledge to:

- Understands what an energy audit is.
- Knows the main steps involved in undertaking an energy audit.
- Is aware of the skills and knowledge needed to undertake an energy audit.

CEC ID: TC2486

Bruce Rowse
Instructor

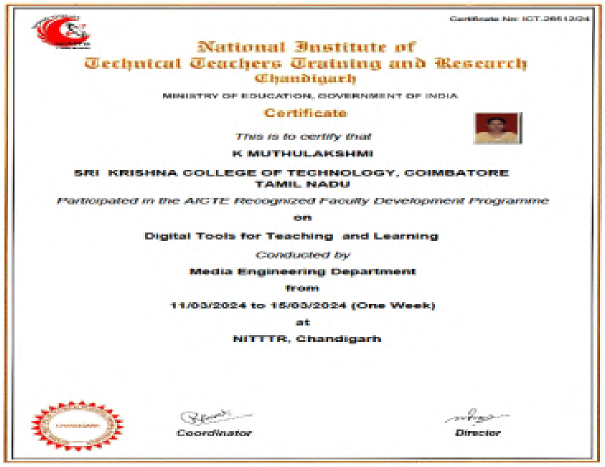
[qrcode_unique_certificate_code_generator width=150 height=150]
Scan QR Code to Authenticate

FACULTY PARTICIPATIONS

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATIONS

Dr K Muthulakshmi, Professor, Department of ECE, participated in the **AICTE Recognized Faculty Development Programme** on Digital Tools for Teaching and Learning Conducted by Media Engineering Department during 11-15 March 2024 organized by NITTTR, Chandigarh.



Certificate No: [illegible]

National Institute of
Technical Teachers Training and Research
Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

K MUTHULAKSHMI

SRI KRISHNA COLLEGE OF TECHNOLOGY, COIMBATORE
TAMIL NADU

Participated in the AICTE Recognized Faculty Development Programme

on

Digital Tools for Teaching and Learning

Conducted by

Media Engineering Department

from

11/03/2024 to 15/03/2024 (One Week)

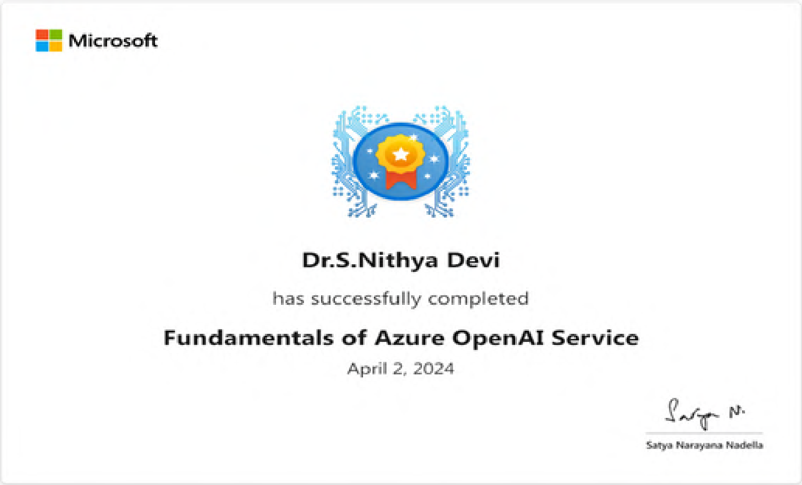
at

NITTTR, Chandigarh

Coordinator

Director

Dr S Nithyadevi, Assistant Professor, Department of ECE, attended **"Fundamentals of Azure OpenAI Service"** in Microsoft in the month of April 2024.



Microsoft

Dr.S.Nithya Devi

has successfully completed

Fundamentals of Azure OpenAI Service

April 2, 2024

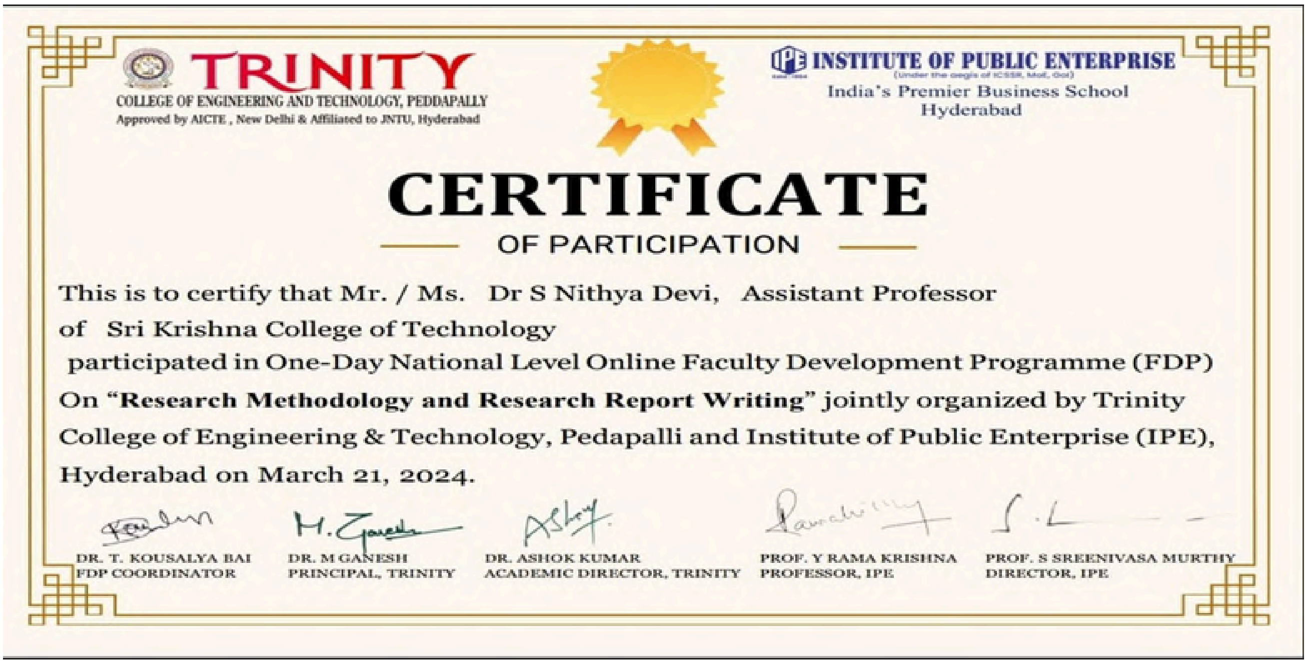
Satya Narayana Nadella

FACULTY PARTICIPATIONS

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATION

Dr S Nithya Devi, Assistant Professor, Department of ECE, participated in a one-day National level FDP on **"Research Methodology and Research Report Writing"** organized by Trinity College of Engineering& Technology, Hyderabad on March 21, 2024.



TRINITY
COLLEGE OF ENGINEERING AND TECHNOLOGY, PEDDAPALLY
Approved by AICTE , New Delhi & Affiliated to JNTU, Hyderabad

INSTITUTE OF PUBLIC ENTERPRISE
(Under the aegis of ICSSR, MoE, GoI)
India's Premier Business School
Hyderabad

CERTIFICATE
OF PARTICIPATION

This is to certify that Mr. / Ms. Dr S Nithya Devi, Assistant Professor of Sri Krishna College of Technology participated in One-Day National Level Online Faculty Development Programme (FDP) On **"Research Methodology and Research Report Writing"** jointly organized by Trinity College of Engineering & Technology, Pedapalli and Institute of Public Enterprise (IPE), Hyderabad on March 21, 2024.

DR. T. KOUSALYA BAI
FDP COORDINATOR

M. Ganesh
DR. M GANESH
PRINCIPAL, TRINITY

DR. ASHOK KUMAR
ACADEMIC DIRECTOR, TRINITY

PROF. Y RAMA KRISHNA
PROFESSOR, IPE

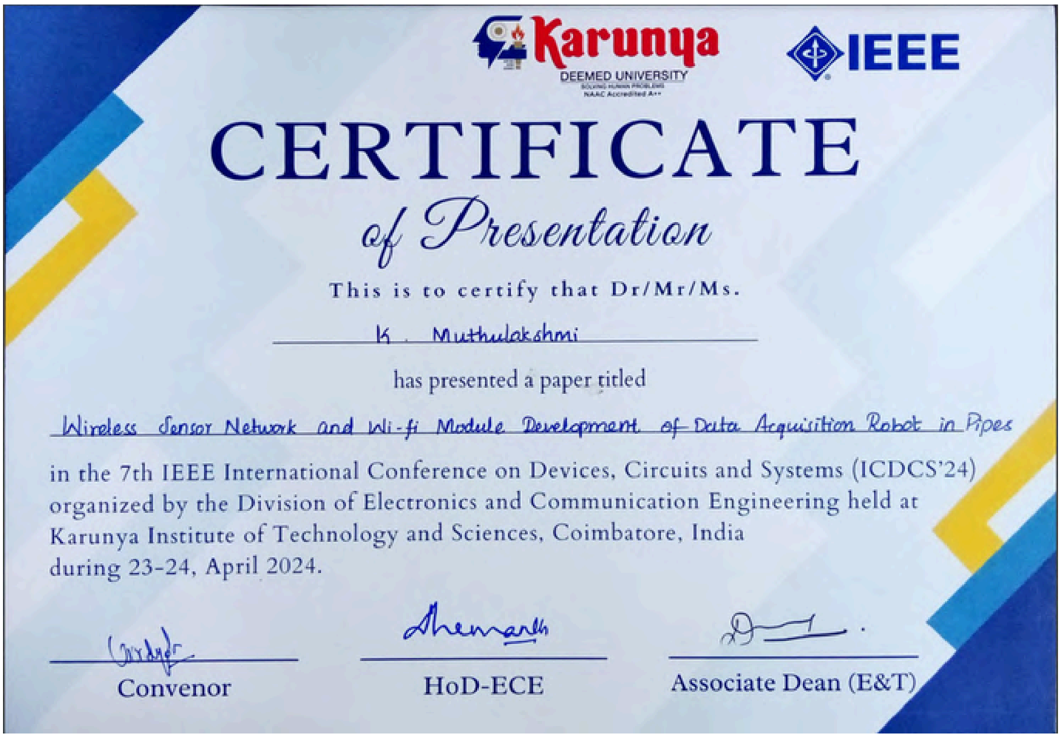
PROF. S SREENIVASA MURTHY
DIRECTOR, IPE

FACULTY PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATION

Dr K Muthulakshmi, Assistant Professor, Department of ECE, presented a paper on **"Wireless Sensor Network and Wi-fi Module Development of Data Acquisition Robot in Pipes"** in the 7th IEEE International Conference on Devices, Circuits and Systems (ICDCS'24) organized at Karunya Institute of Technology and Sciences, Coimbatore during 23-24 April 2024.



Karunya DEEMED UNIVERSITY SOLVING HUMAN PROBLEMS NAAC Accredited A++ IEEE

CERTIFICATE

of Presentation

This is to certify that Dr/Mr/Ms. K. Muthulakshmi

has presented a paper titled

Wireless Sensor Network and Wi-fi Module Development of Data Acquisition Robot in Pipes

in the 7th IEEE International Conference on Devices, Circuits and Systems (ICDCS'24) organized by the Division of Electronics and Communication Engineering held at Karunya Institute of Technology and Sciences, Coimbatore, India during 23-24, April 2024.

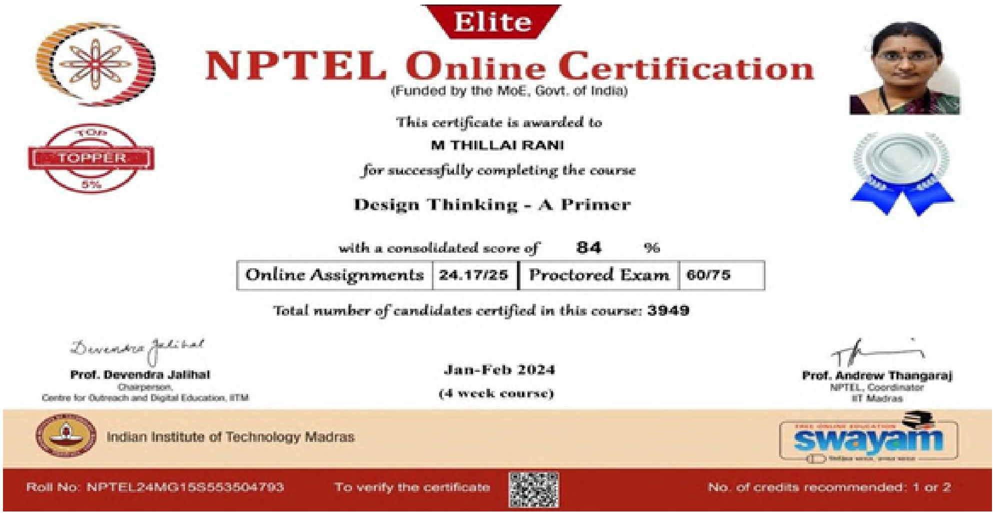
Convenor HoD-ECE Associate Dean (E&T)

FACULTY PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL CERTIFICATIONS

Dr M Thillai Rani, Associate Professor, Department of ECE, completed the NPTEL Course on **"Design Thinking - A Primer" with 84% and secured the topper position.**



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

TOPPER 5%

This certificate is awarded to

M THILLAI RANI

for successfully completing the course

Design Thinking - A Primer

with a consolidated score of 84 %

Online Assignments	24.17/25	Proctored Exam	60/75

Total number of candidates certified in this course: 3949

Devendra Jalihal
Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

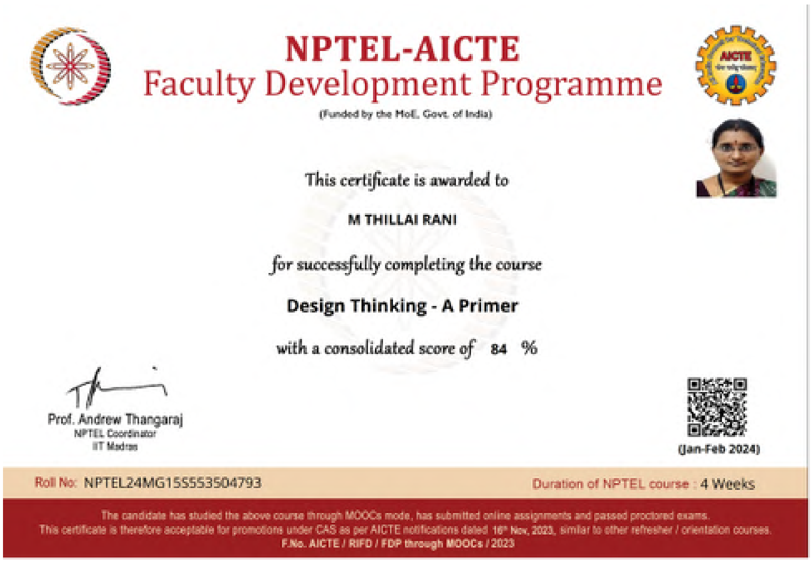
Jan-Feb 2024
(4 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL24MG15S553504793 To verify the certificate No. of credits recommended: 1 or 2



NPTEL-AICTE
Faculty Development Programme
(Funded by the MoE, Govt. of India)

AICTE

This certificate is awarded to

M THILLAI RANI

for successfully completing the course

Design Thinking - A Primer

with a consolidated score of 84 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Feb 2024)

Roll No: NPTEL24MG15S553504793 Duration of NPTEL course : 4 Weeks

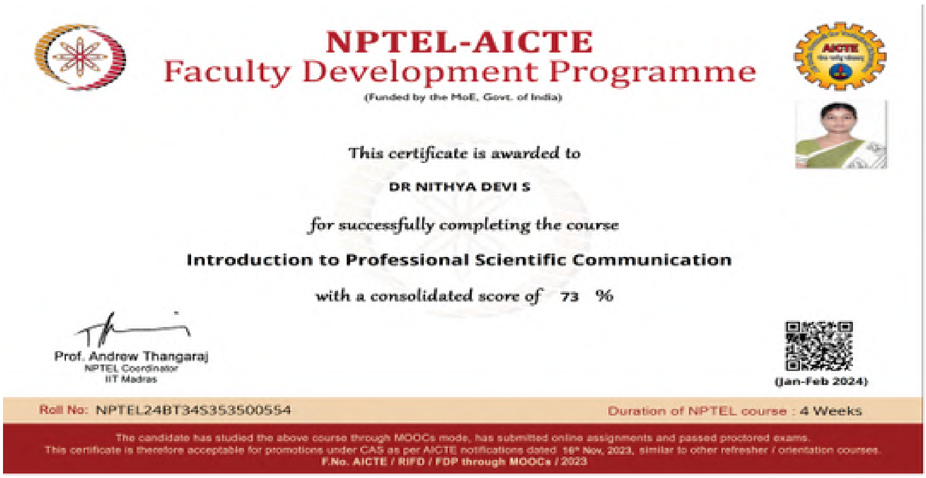
The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

FACULTY PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL CERTIFICATION

Dr S Nithyadevi and Dr P Divya, Assistant Professor, Department of ECE, attended the Faculty Development Programme on **"Introduction to Professional Scientific Communication"** organized through NPTEL during January–February 2024.



NPTEL-AICTE
Faculty Development Programme
(Funded by the MoE, Govt. of India)

This certificate is awarded to

DR NITHYA DEVI S

for successfully completing the course

Introduction to Professional Scientific Communication

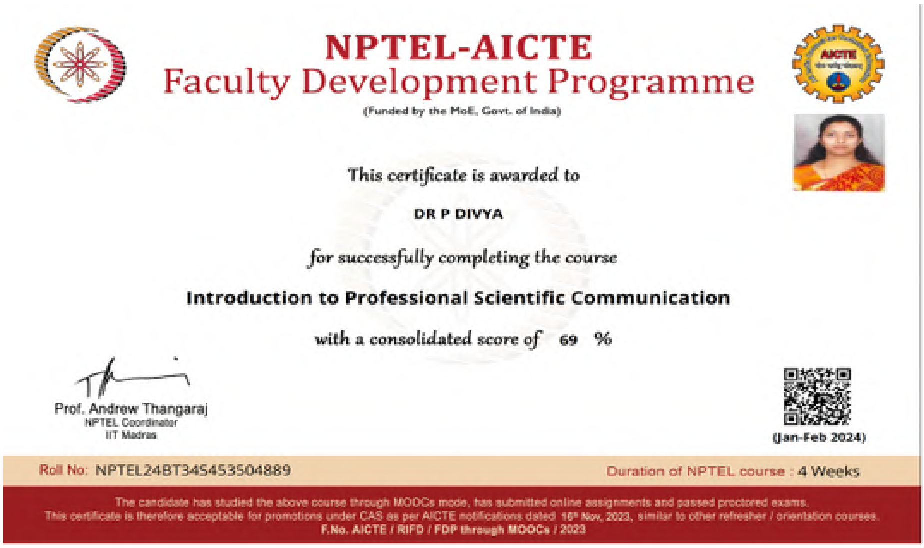
with a consolidated score of 73 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Feb 2024)

Roll No: NPTEL24BT34S353500554 Duration of NPTEL course : 4 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023



NPTEL-AICTE
Faculty Development Programme
(Funded by the MoE, Govt. of India)

This certificate is awarded to

DR P DIVYA

for successfully completing the course

Introduction to Professional Scientific Communication

with a consolidated score of 69 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Feb 2024)

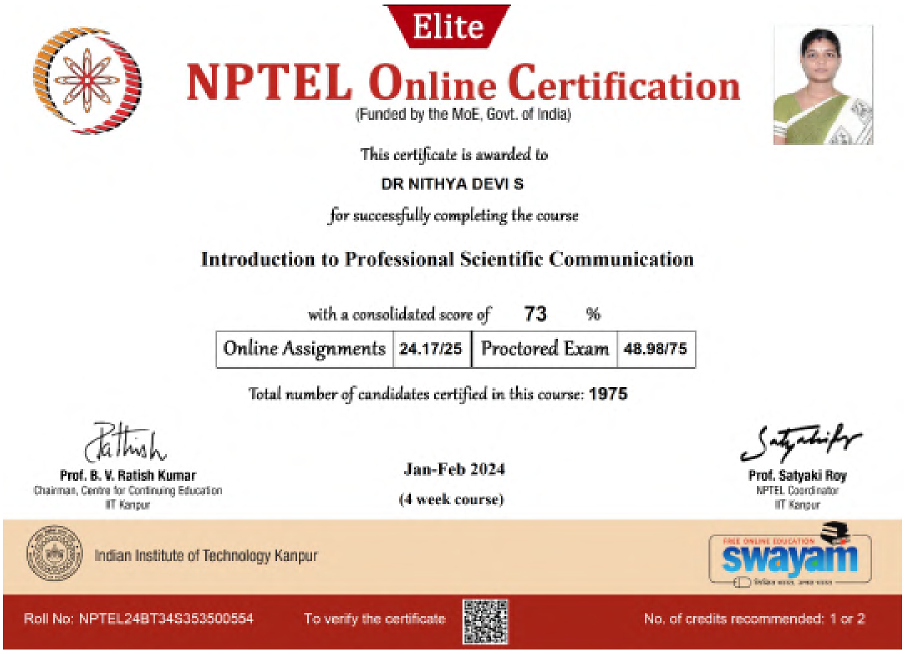
Roll No: NPTEL24BT34S453504889 Duration of NPTEL course : 4 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

FACULTY PARTICIPATIONS

ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL CERTIFICATIONS



Elite

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

This certificate is awarded to

DR NITHYA DEVI S

for successfully completing the course

Introduction to Professional Scientific Communication

with a consolidated score of 73 %

Online Assignments	24.17/25	Proctored Exam	48.98/75

Total number of candidates certified in this course: 1975

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

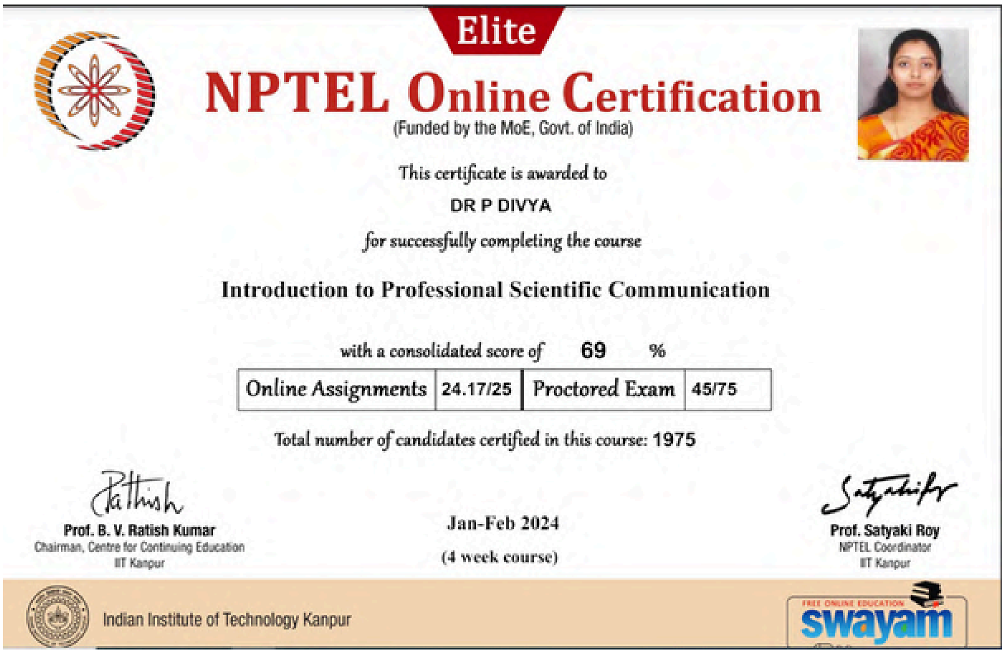
Jan-Feb 2024
(4 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

FREE ONLINE EDUCATION swayam

Roll No: NPTEL24BT34S353500554
To verify the certificate
No. of credits recommended: 1 or 2



Elite

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

This certificate is awarded to

DR P DIVYA

for successfully completing the course

Introduction to Professional Scientific Communication

with a consolidated score of 69 %

Online Assignments	24.17/25	Proctored Exam	45/75

Total number of candidates certified in this course: 1975

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

Jan-Feb 2024
(4 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

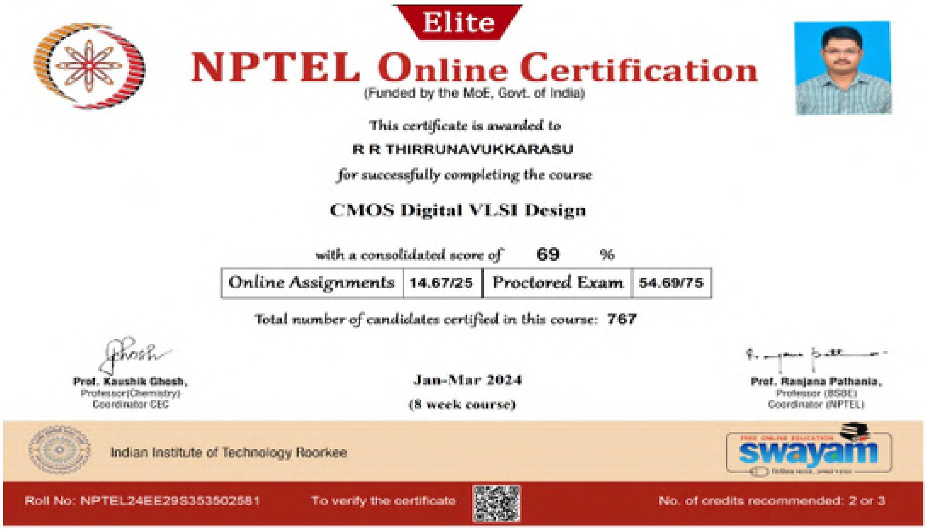
FREE ONLINE EDUCATION swayam

FACULTY PARTICIPATIONS

ELECTRONICS AND COMMUNICATION ENGINEERING

NPTEL CERTIFICATION

Dr.Thirrunavukkarasu.R., Assistant Professor, Department of ECE has attended the Faculty Development Programme on **"CMOS Digital VLSI Design"** organized by NPTEL during Jan – Feb 2024.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

R R THIRRUNAVUKKARASU

for successfully completing the course

CMOS Digital VLSI Design

with a consolidated score of 69 %

Online Assignments	14.67/25	Proctored Exam	54.69/75

Total number of candidates certified in this course: 767

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

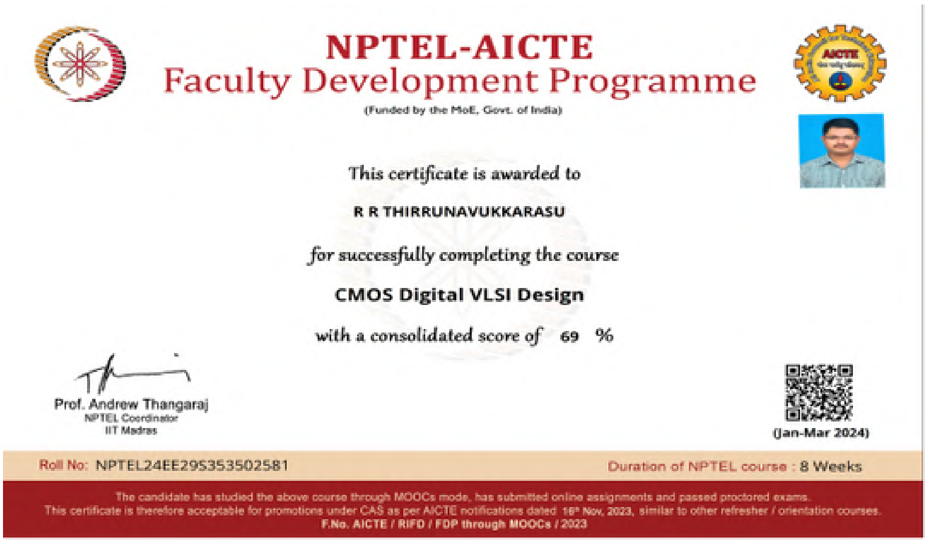
Jan-Mar 2024
(8 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL24EE29S353502581 To verify the certificate No. of credits recommended: 2 or 3



NPTEL-AICTE
Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

R R THIRRUNAVUKKARASU

for successfully completing the course

CMOS Digital VLSI Design

with a consolidated score of 69 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Mar 2024)

Roll No: NPTEL24EE29S353502581 Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

FACULTY PARTICIPATION

ELECTRONICS AND COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering along with the Career Guidance & International Affairs Cell, SKCT organized a Webinar on "**Career in Civil Services**" for all the Students of SKCT. **Mr Israel Jebasingh, Ex- IAS, Founder & Director, IAS Academy** served as a resource person on 08.04.2024.

EVENT ORGANIZED

ELECTRONICS AND COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering organized a Mentor Interaction session on **Exploring Industry Trends and Career Paths in Placements** on 06.04.2024 at 2.30 pm. **Ms Suhana Sundaram, Packaged Application Development Associate, Accenture,** Coimbatore, Served as a Resource Person.

EVENT ORGANIZED

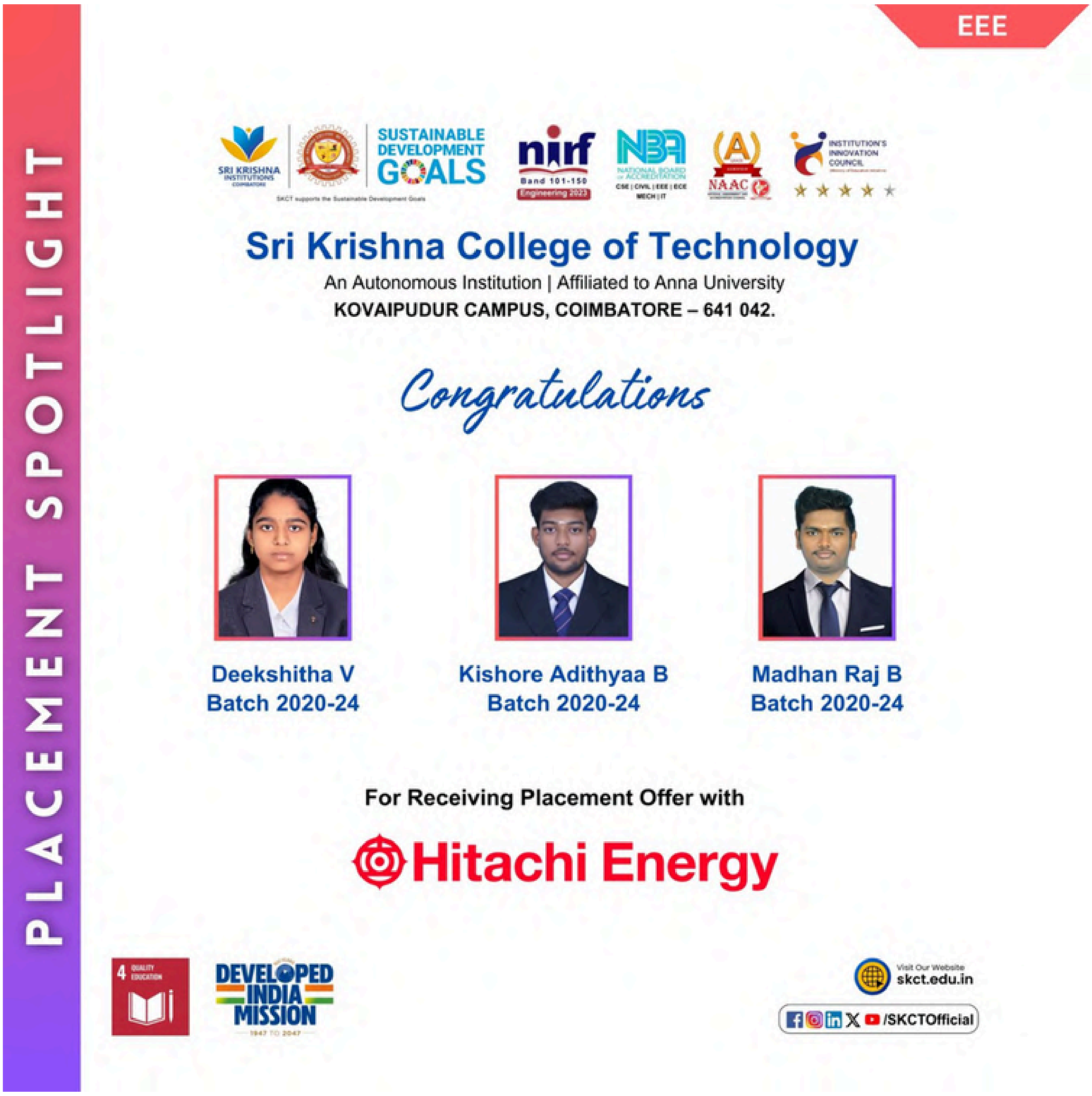
ELECTRONICS AND COMMUNICATION ENGINEERING

The Entrepreneurship Development Cell organized an event titled “**Enrepreneurial Tales.”** The students meet the entrepreneurs in their site and spend a quality time with them discussing on entrepreneurship, their hard times and achievements. **Ms Radhika A J, Founder, Queenbee Paper Crafts and Creative Art,** Coimbatore served **as the Resource Person** for on 22.04.2024.

EVENT ORGANIZED

ELECTRICAL AND ELECTRONICS ENGINEERING

Mr Madhan Raj, Mr Kishore Adithya and Ms Deekshitha V of the Batch 2020-2024 **received the placement offer in Hitachi Energy with 6 LPA.**



PLACEMENT SPOTLIGHT

EEE

Sri Krishna College of Technology

An Autonomous Institution | Affiliated to Anna University

KOVAIPUDUR CAMPUS, COIMBATORE – 641 042.

Congratulations

Deekshitha V
Batch 2020-24

Kishore Adithyaa B
Batch 2020-24

Madhan Raj B
Batch 2020-24

For Receiving Placement Offer with

Hitachi Energy

Visit Our Website
skct.edu.in

/SKCTOfficial

STUDENTS PLACEMENT

ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATION

Mr D Ranjan, Mr K Nathish, Ms R Nishanthi and Ms R Ramya of II EEE secured the **third place** in a "Paper Presentation" with a **cash prize of Rs 3000/-** in Waves 2k24 organised by College of Engineering, Guindy on 03.04.2024.

COLLEGE OF ENGINEERING GUINDY
SOCIETY OF ELECTRICAL AND ELECTRONICS ENGINEERS
WAVES
INFINITY UNRAVELLED
ARAM IAS ACADEMY
PRESENTS
WAVES'24
CIRCUIT CARNIVAL
-SPONSORED BY
Kappa Current Technology
GOWTHAMRAJ NETWORK
APRIL 2,3,4

STUDENTS ACHIEVEMENT

ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATION

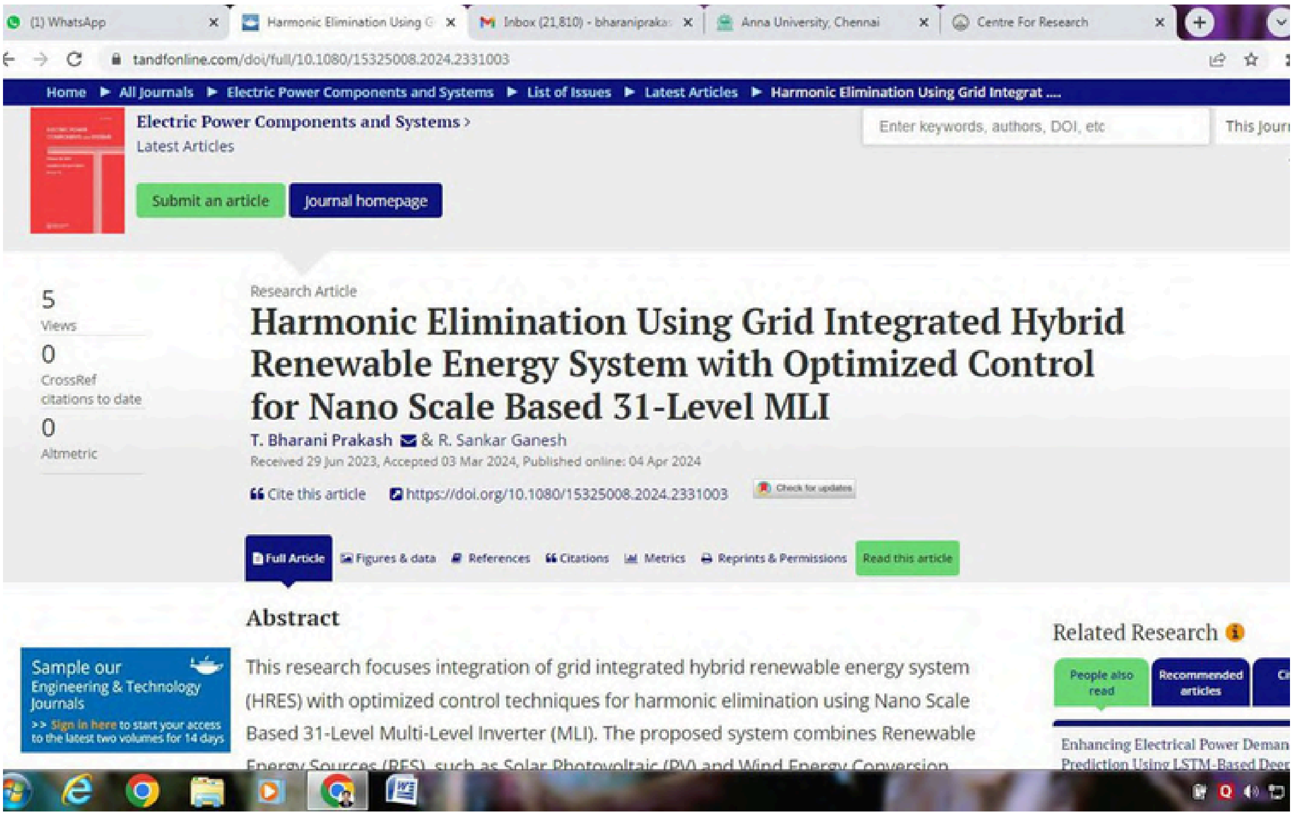
Mr Mohammed Aarif of II EEE secured the **first place** in "Programming Puzzle Hunt" with a **cash prize of Rs 7000/-** in Euphoria 2k24 organised by Kalasalingam University on 27.03.2024.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
KARE OPEN SOURCE SOCIETY
PRESENTS
₹50,000
KARE OSS ML &DL KITS
IBM SWAGS & KITS
COURSERA GUIDED PRO
AND COUNTLESS
NUMEROUS SURPRISES
WONDERS OF
AI
IDERS OF AI
OUR PROUD
SPONSORS
CODECHEF
IBM
DIAMOND EVENT
NOW ABLE TO SEE, HEAR & LEARN.
ELCOMES YOU TO A GRAND 24 Hrs HACKATHON!
ORGANIZER
Dr. R. RAJA SUBRAMANIAN
ASSOCIATE HOD - STUDENT ACTIVITIES
FACULTY COORDINATOR
Mr. V. ARAVINDARAJAN
ASSISTANT PROFESSOR/CSE
CHIEF GUEST
Mr. VIQARUDDIN SURKI
DELIVERY HEAD
IBM INNOVATION CENTRE FOR EDUCATION
IBM INDIA PVT LTD
STUDENT COORDINATORS
N V ANAND SAI KUMAR
PRESIDENT - KARE OSS
B KUMAR SRINIVAS
VICE PRESIDENT - KARE OSS
B KARTHIK TARAKA SAI
SECRETARY - KARE OSS
VENUE: SRIN AMANU LOCK SEMINAR HALL | DATE & TIME: 26TH MARCH AT 10 AM
KALASALINGAM ACADEMY OF RE CH AN UCATION | ACCREDITED BY NAAC WITH A++ | KARE OPEN SOURCE SOCIETY

STUDENT ACHIEVEMENT

ELECTRICAL AND ELECTRONICS ENGINEERING

Mr Bharaniprakash T, Assistant professor, published a research article titled **"Harmonic Elimination using Grid Integrated Hybrid renewable energy systems with optimised control for Nanoscale based 31 level MLI"** in a Journal of Electric Power System and Components - SCI Indexed Journal.


(1) WhatsApp
Harmonic Elimination Using G
Inbox (21,810) - bharaniprakas
Anna University, Chennai
Centre For Research
tandfonline.com/doi/full/10.1080/15325008.2024.2331003
Home ▶ All Journals ▶ Electric Power Components and Systems ▶ List of Issues ▶ Latest Articles ▶ Harmonic Elimination Using Grid Integrat ....
Enter keywords, authors, DOI, etc
This Journ
Submit an article
Journal homepage
Full Article
Figures & data
References
Citations
Metrics
Reprints & Permissions
Read this article
Check for updates
Cite this article
People also read
Recommended articles

Electric Power Components and Systems ›
Latest Articles

5
Views
0
CrossRef citations to date
0
Altmetric

Research Article

Harmonic Elimination Using Grid Integrated Hybrid Renewable Energy System with Optimized Control for Nano Scale Based 31-Level MLI

T. Bharani Prakash & R. Sankar Ganesh

Received 29 Jun 2023, Accepted 03 Mar 2024, Published online: 04 Apr 2024

https://doi.org/10.1080/15325008.2024.2331003

Abstract

This research focuses integration of grid integrated hybrid renewable energy system (HRES) with optimized control techniques for harmonic elimination using Nano Scale Based 31-Level Multi-Level Inverter (MLI). The proposed system combines Renewable Energy Sources (RES), such as Solar Photovoltaic (PV) and Wind Energy Conversion

Sample our Engineering & Technology Journals
>> Sign in here to start your access to the latest two volumes for 14 days

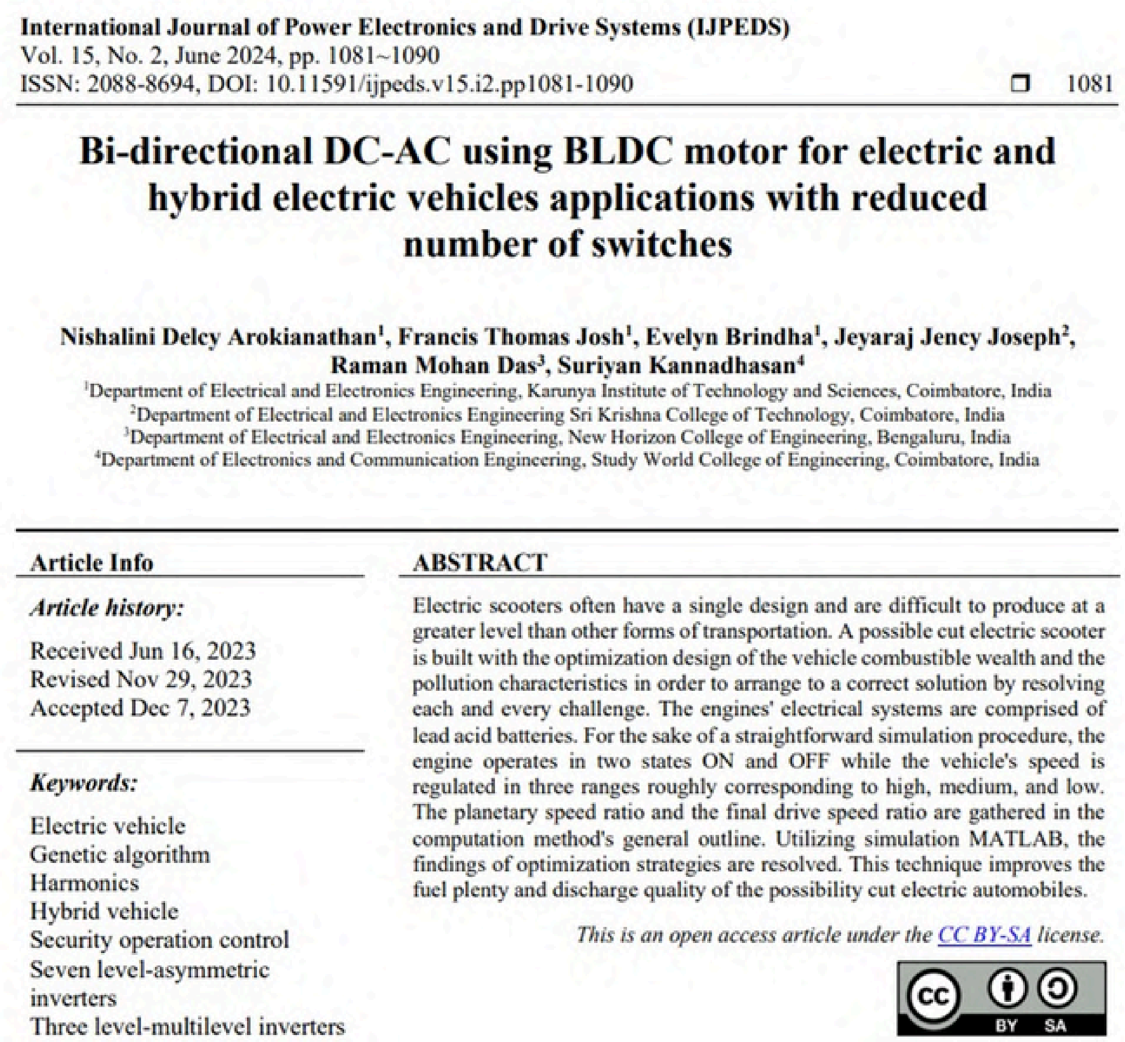
Related Research

Enhancing Electrical Power Deman
Prediction Using LSTM-Based Deep

FACULTY PUBLICATION

ELECTRICAL AND ELECTRONICS ENGINEERING

Dr J Jency Joseph, Associate professor, published a research article titled **"Bi-directional DC-AC using BLDC motor for electric and hybrid electric vehicles applications with reduced number of switches"** in an International Journal of Power Electronics and Drive Systems (IJPEDS) - Scopus Indexed Journal.



International Journal of Power Electronics and Drive Systems (IJPEDS)
Vol. 15, No. 2, June 2024, pp. 1081~1090
ISSN: 2088-8694, DOI: 10.11591/ijpeds.v15.i2.pp1081-1090 ❐ 1081

Bi-directional DC-AC using BLDC motor for electric and hybrid electric vehicles applications with reduced number of switches

Nishalini Delcy Arokianathan[1], Francis Thomas Josh[1], Evelyn Brindha[1], Jeyaraj Jency Joseph[2], Raman Mohan Das[3], Suriyan Kannadhasan[4]
[1]Department of Electrical and Electronics Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India
[2]Department of Electrical and Electronics Engineering Sri Krishna College of Technology, Coimbatore, India
[3]Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, India
[4]Department of Electronics and Communication Engineering, Study World College of Engineering, Coimbatore, India

Article Info

Article history:

Received Jun 16, 2023
Revised Nov 29, 2023
Accepted Dec 7, 2023

Keywords:

Electric vehicle
Genetic algorithm
Harmonics
Hybrid vehicle
Security operation control
Seven level-asymmetric inverters
Three level-multilevel inverters

ABSTRACT

Electric scooters often have a single design and are difficult to produce at a greater level than other forms of transportation. A possible cut electric scooter is built with the optimization design of the vehicle combustible wealth and the pollution characteristics in order to arrange to a correct solution by resolving each and every challenge. The engines' electrical systems are comprised of lead acid batteries. For the sake of a straightforward simulation procedure, the engine operates in two states ON and OFF while the vehicle's speed is regulated in three ranges roughly corresponding to high, medium, and low. The planetary speed ratio and the final drive speed ratio are gathered in the computation method's general outline. Utilizing simulation MATLAB, the findings of optimization strategies are resolved. This technique improves the fuel plenty and discharge quality of the possibility cut electric automobiles.

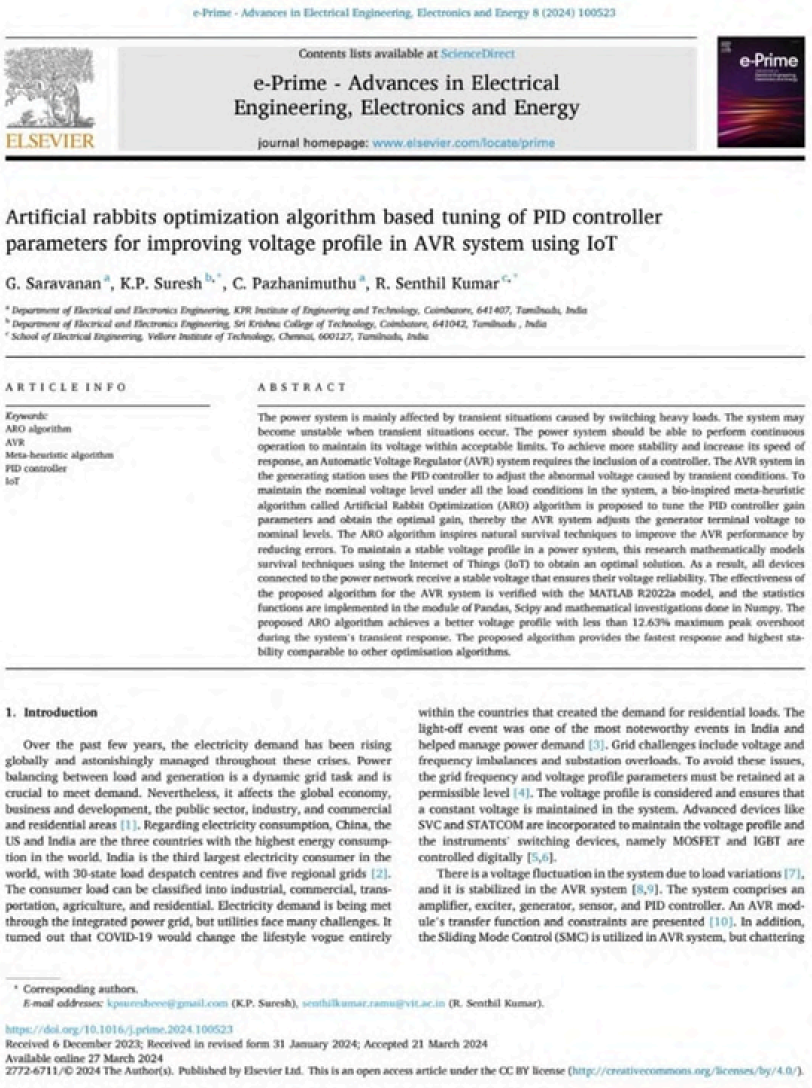
This is an open access article under the CC BY-SA license.

CC BY SA

FACULTY PUBLICATION

ELECTRICAL AND ELECTRONICS ENGINEERING

Dr K P Suresh, Assistant Professor, published a research article titled **"Artificial rabbits optimization algorithm based tunning of PID controller parameters of improving voltage profile in AVR system using IoT"** in the Journal of e Prime - Advances in Electrical Engineering, Electronics and Energy - Elsevier.



e-Prime - Advances in Electrical Engineering, Electronics and Energy 8 (2024) 100523

Contents lists available at ScienceDirect

e-Prime - Advances in Electrical Engineering, Electronics and Energy

journal homepage: www.elsevier.com/locate/prime

Artificial rabbits optimization algorithm based tuning of PID controller parameters for improving voltage profile in AVR system using IoT

G. Saravanan[a], K.P. Suresh[b,*], C. Pazhanimuthu[a], R. Senthil Kumar[c,*]

[a] Department of Electrical and Electronics Engineering, KPR Institute of Engineering and Technology, Coimbatore, 641407, Tamilnadu, India
[b] Department of Electrical and Electronics Engineering, Sri Krishna College of Technology, Coimbatore, 641042, Tamilnadu , India
[c] School of Electrical Engineering, Vellore Institute of Technology, Chennai, 600127, Tamilnadu, India

A R T I C L E I N F O

Keywords:
ARO algorithm
AVR
Meta-heuristic algorithm
PID controller
IoT

A B S T R A C T

The power system is mainly affected by transient situations caused by switching heavy loads. The system may become unstable when transient situations occur. The power system should be able to perform continuous operation to maintain its voltage within acceptable limits. To achieve more stability and increase its speed of response, an Automatic Voltage Regulator (AVR) system requires the inclusion of a controller. The AVR system in the generating station uses the PID controller to adjust the abnormal voltage caused by transient conditions. To maintain the nominal voltage level under all the load conditions in the system, a bio-inspired meta-heuristic algorithm called Artificial Rabbit Optimization (ARO) algorithm is proposed to tune the PID controller gain parameters and obtain the optimal gain, thereby the AVR system adjusts the generator terminal voltage to nominal levels. The ARO algorithm inspires natural survival techniques to improve the AVR performance by reducing errors. To maintain a stable voltage profile in a power system, this research mathematically models survival techniques using the Internet of Things (IoT) to obtain an optimal solution. As a result, all devices connected to the power network receive a stable voltage that ensures their voltage reliability. The effectiveness of the proposed algorithm for the AVR system is verified with the MATLAB R2022a model, and the statistics functions are implemented in the module of Pandas, Scipy and mathematical investigations done in Numpy. The proposed ARO algorithm achieves a better voltage profile with less than 12.63% maximum peak overshoot during the system's transient response. The proposed algorithm provides the fastest response and highest stability comparable to other optimisation algorithms.

1. Introduction

Over the past few years, the electricity demand has been rising globally and astonishingly managed throughout these crises. Power balancing between load and generation is a dynamic grid task and is crucial to meet demand. Nevertheless, it affects the global economy, business and development, the public sector, industry, and commercial and residential areas [1]. Regarding electricity consumption, China, the US and India are the three countries with the highest energy consumption in the world. India is the third largest electricity consumer in the world, with 30-state load despatch centres and five regional grids [2]. The consumer load can be classified into industrial, commercial, transportation, agriculture, and residential. Electricity demand is being met through the integrated power grid, but utilities face many challenges. It turned out that COVID-19 would change the lifestyle vogue entirely within the countries that created the demand for residential loads. The light-off event was one of the most noteworthy events in India and helped manage power demand [3]. Grid challenges include voltage and frequency imbalances and substation overloads. To avoid these issues, the grid frequency and voltage profile parameters must be retained at a permissible level [4]. The voltage profile is considered and ensures that a constant voltage is maintained in the system. Advanced devices like SVC and STATCOM are incorporated to maintain the voltage profile and the instruments' switching devices, namely MOSFET and IGBT are controlled digitally [5,6].

There is a voltage fluctuation in the system due to load variations [7], and it is stabilized in the AVR system [8,9]. The system comprises an amplifier, exciter, generator, sensor, and PID controller. An AVR module's transfer function and constraints are presented [10]. In addition, the Sliding Mode Control (SMC) is utilized in AVR system, but chattering

---

[*] Corresponding authors.
E-mail addresses: kpsureshece@gmail.com (K.P. Suresh), senthilkumar.ramu@vit.ac.in (R. Senthil Kumar).

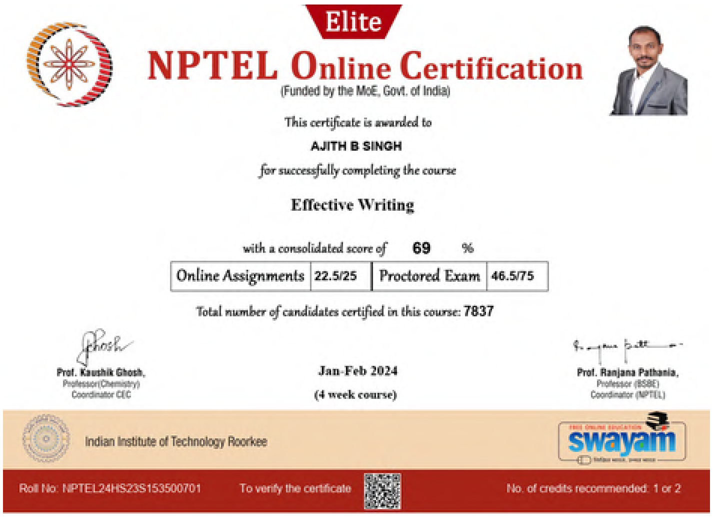
https://doi.org/10.1016/j.prime.2024.100523
Received 6 December 2023; Received in revised form 31 January 2024; Accepted 21 March 2024
Available online 27 March 2024
2772-6711/© 2024 The Author(s). Published by Elsevier Ltd. This is an open access article under the CC BY license (http://creativecommons.org/licenses/by/4.0/).

FACULTY PUBLICATION

ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATIONS

Mr Ajith B Singh and Mr Bharani Prakash T, Assistant Professors, received **Elite Certification in NPTEL course on Effective writing.**



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

AJITH B SINGH

for successfully completing the course

Effective Writing

with a consolidated score of 69 %

Online Assignments	22.5/25	Proctored Exam	46.5/75

Total number of candidates certified in this course: 7837

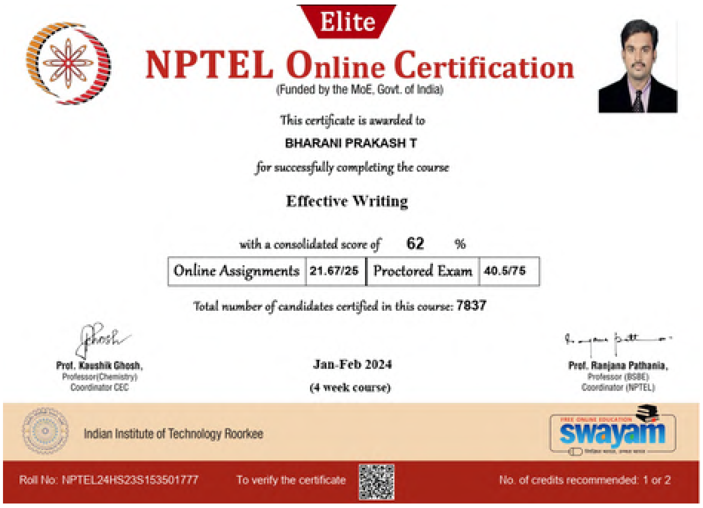
Ghosh
Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL24HS23S153500701 To verify the certificate No. of credits recommended: 1 or 2



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

BHARANI PRAKASH T

for successfully completing the course

Effective Writing

with a consolidated score of 62 %

Online Assignments	21.67/25	Proctored Exam	40.5/75

Total number of candidates certified in this course: 7837

Ghosh
Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Feb 2024
(4 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

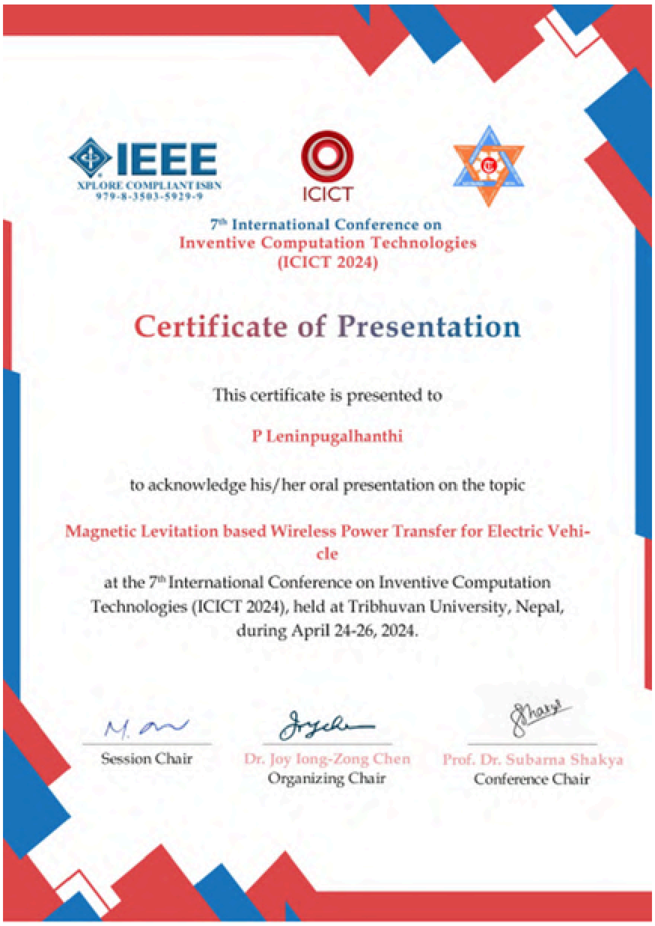
Indian Institute of Technology Roorkee

Roll No: NPTEL24HS23S153501777 To verify the certificate No. of credits recommended: 1 or 2

FACULTY ONLINE CERTIFICATIONS

ELECTRICAL AND ELECTRONICS ENGINEERING

Mr Bharaniprakash T and Mr Leninpugalhanthi P, Assistant Professors, published a **research article** titled **"Magnetic Levitation based wireless Power Transfer for Electric Vehicle"** in the 7th International Conference on Inventive Computation Technologies (ICICT 2024), Tribhuvan University, Nepal.



IEEE XPLORE COMPLIANT ISBN 979-8-3503-5929-9

ICICT

7th International Conference on Inventive Computation Technologies (ICICT 2024)

Certificate of Presentation

This certificate is presented to

P Leninpugalhanthi

to acknowledge his/her oral presentation on the topic

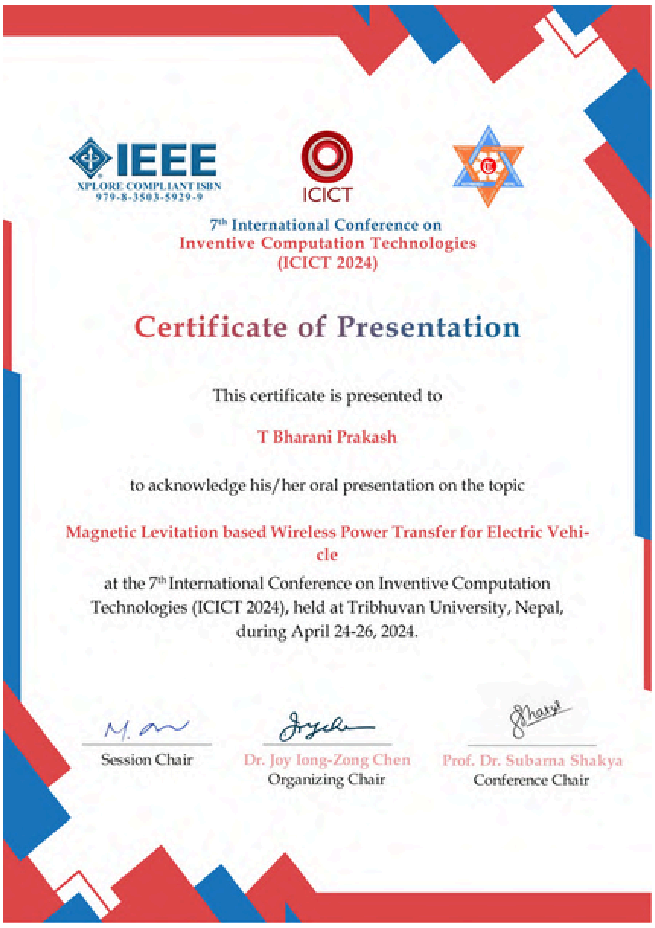
Magnetic Levitation based Wireless Power Transfer for Electric Vehicle

at the 7th International Conference on Inventive Computation Technologies (ICICT 2024), held at Tribhuvan University, Nepal, during April 24-26, 2024.

Session Chair

Dr. Joy Iong-Zong Chen
Organizing Chair

Prof. Dr. Subarna Shakya
Conference Chair



IEEE XPLORE COMPLIANT ISBN 979-8-3503-5929-9

ICICT

7th International Conference on Inventive Computation Technologies (ICICT 2024)

Certificate of Presentation

This certificate is presented to

T Bharani Prakash

to acknowledge his/her oral presentation on the topic

Magnetic Levitation based Wireless Power Transfer for Electric Vehicle

at the 7th International Conference on Inventive Computation Technologies (ICICT 2024), held at Tribhuvan University, Nepal, during April 24-26, 2024.

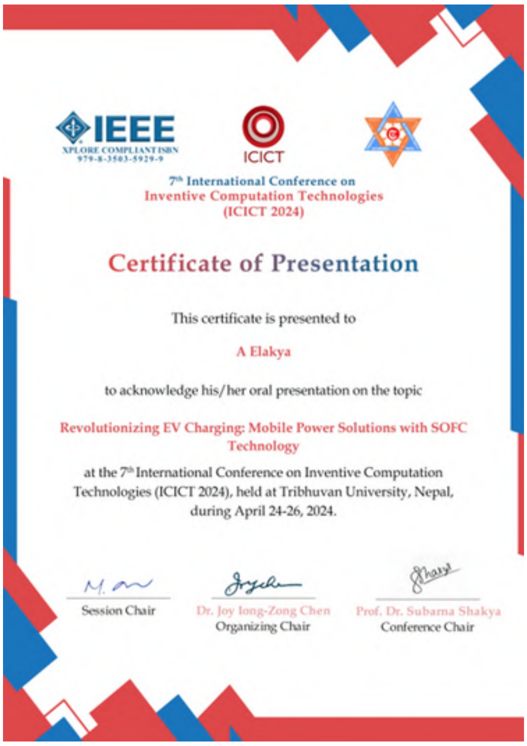
Session Chair

Dr. Joy Iong-Zong Chen
Organizing Chair

Prof. Dr. Subarna Shakya
Conference Chair

FACULTY ACHEIVEMENTS

ELECTRICAL AND ELECTRONICS ENGINEERING


7th International Conference on
Inventive Computation Technologies
(ICICT 2024)

Certificate of Presentation

This certificate is presented to

A Elakya

to acknowledge his/her oral presentation on the topic

Revolutionizing EV Charging: Mobile Power Solutions with SOFC Technology

at the 7th International Conference on Inventive Computation Technologies (ICICT 2024), held at Tribhuvan University, Nepal, during April 24-26, 2024.

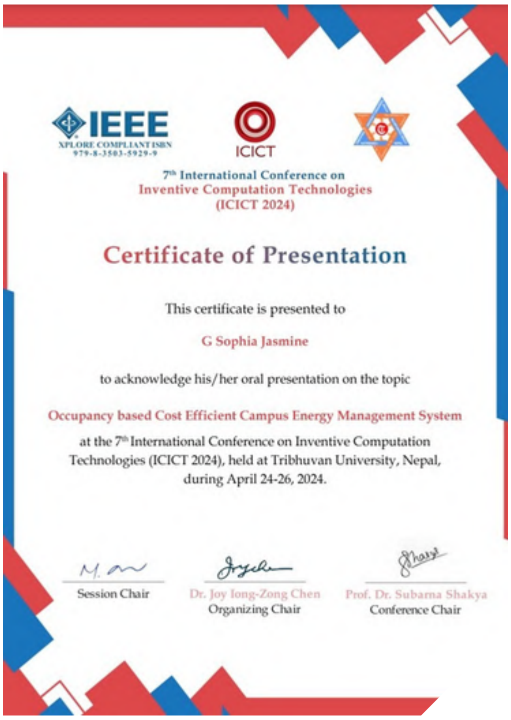
Session Chair

Dr. Joy Iong-Zong Chen
Organizing Chair

Prof. Dr. Subarna Shakya
Conference Chair

Ms Elakya, Assistant Professor, published a **research article** titled **"Revolutioning EV Charging: Mobile Power Solutions with SOFC Technology"** in the 7th International Conference on Inventive Computation Technologies (ICICT 2024), Tribhuvan University, Nepal.

Dr Sophia Jasmine G, Associate Professor, published a **research article** titled **"Occupancy based cost efficient campus energy management system"** in the 7th International Conference on Inventive Computation Technologies (ICICT 2024), Tribhuvan University, Nepal.


7th International Conference on
Inventive Computation Technologies
(ICICT 2024)

Certificate of Presentation

This certificate is presented to

G Sophia Jasmine

to acknowledge his/her oral presentation on the topic

Occupancy based Cost Efficient Campus Energy Management System

at the 7th International Conference on Inventive Computation Technologies (ICICT 2024), held at Tribhuvan University, Nepal, during April 24-26, 2024.

Session Chair

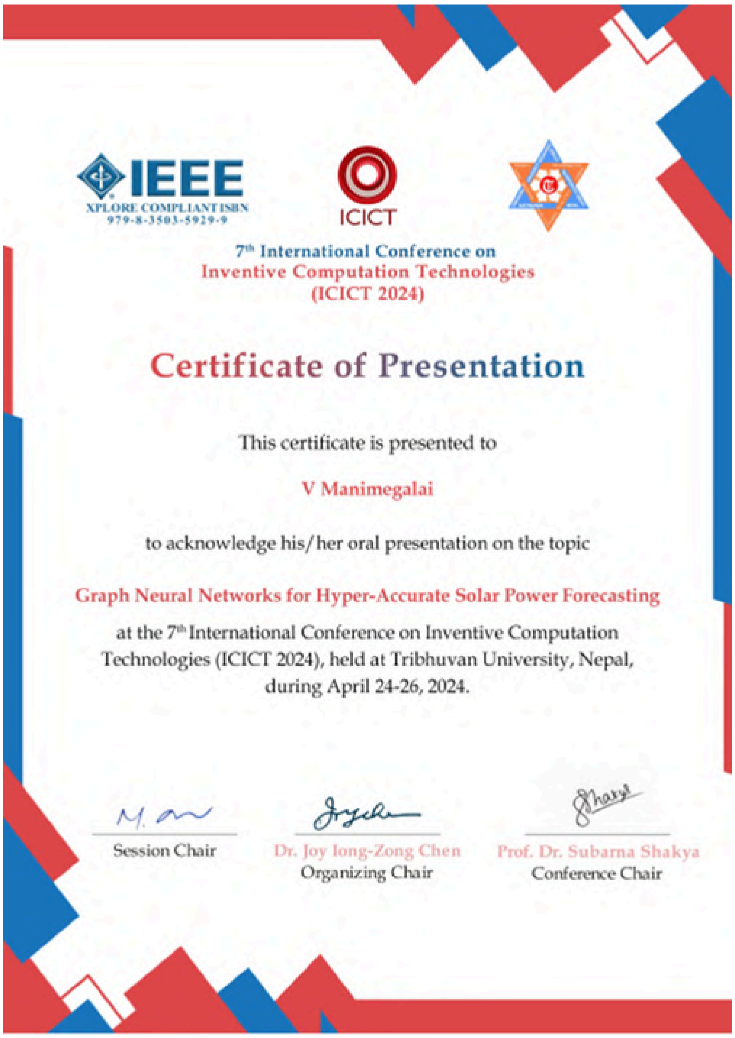
Dr. Joy Iong-Zong Chen
Organizing Chair

Prof. Dr. Subarna Shakya
Conference Chair

FACULTY ACHEIVEMENTS

ELECTRICAL AND ELECTRONICS ENGINEERING

Ms Manimegalai V, Assistant Professor, published a **research article** titled **"Graph Neural Networks for Hyper-Accurate Solar power forecasting"** in the 7th International Conference on Inventive Computation Technologies (ICICT 2024), Tribhuvan University, Nepal.



IEEE XPLORE COMPLIANT ISBN 979-8-3503-5929-9

ICICT

7th International Conference on Inventive Computation Technologies (ICICT 2024)

Certificate of Presentation

This certificate is presented to

V Manimegalai

to acknowledge his/her oral presentation on the topic

Graph Neural Networks for Hyper-Accurate Solar Power Forecasting

at the 7th International Conference on Inventive Computation Technologies (ICICT 2024), held at Tribhuvan University, Nepal, during April 24-26, 2024.

Session Chair

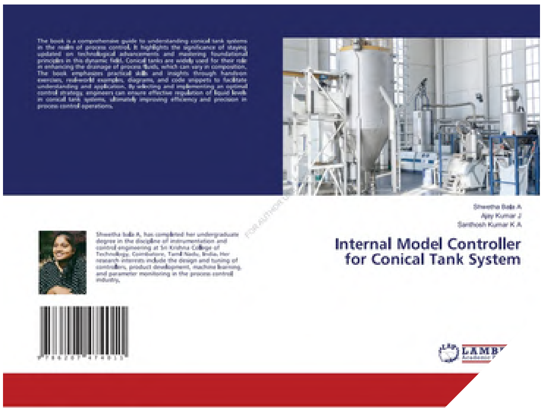
Dr. Joy Iong-Zong Chen
Organizing Chair

Prof. Dr. Subarna Shakya
Conference Chair

EVENT ORGANIZED

ELECTRICAL AND ELECTRONICS ENGINEERING

Mr Santhoshkumar K A, Mr Ajaykumar J, Ms Shwetha Bala A published a **final project thesis on "Internal Model Controller for Conical Tank System"** as a book publication in Lambert Academic Publishing, with the ISBN 9786207474011.



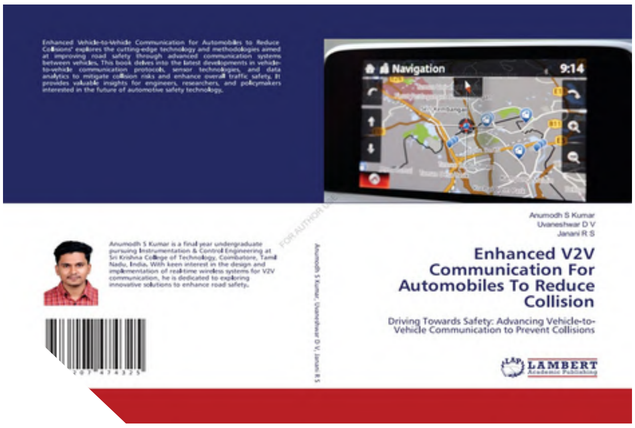
The book is a comprehensive guide to understanding conical tank systems in the realm of process control. It highlights the significance of staying updated on technological advancements and mastering foundational principles in this dynamic field. Conical tanks are widely used for their role in enhancing the drainage of process fluids, which can vary in composition. The book emphasizes practical skills and insights through hands-on exercises, real-world examples, diagrams, and code snippets to facilitate understanding and application. By selecting and implementing an optimal control strategy, engineers can ensure effective regulation of liquid levels in conical tank systems, ultimately improving efficiency and precision in process control operations.

Shwetha bala A, has completed her undergraduate degree in the discipline of instrumentation and control engineering at Sri Krishna College of Technology, Coimbatore, Tamil Nadu, India. Her research interests include the design and tuning of controllers, product development, machine learning, and parameter monitoring in the process control industry.

Shwetha Bala A
Ajay Kumar J
Santhosh Kumar K A

Internal Model Controller for Conical Tank System

STUDENT ACHIEVEMENT



Enhanced Vehicle-to-Vehicle Communication for Automobiles to Reduce Collisions' explores the cutting-edge technology and methodologies aimed at improving road safety through advanced communication systems between vehicles. This book delves into the latest developments in vehicle-to-vehicle communication protocols, sensor technologies, and data analytics to mitigate collision risks and enhance overall traffic safety. It provides valuable insights for engineers, researchers, and policymakers interested in the future of automotive safety technology.

Anumodh S Kumar is a final year undergraduate pursuing Instrumentation & Control Engineering at Sri Krishna College of Technology, Coimbatore, Tamil Nadu, India. With keen interest in the design and implementation of real-time wireless systems for V2V communication, he is dedicated to exploring innovative solutions to enhance road safety.

Anumodh S Kumar, Uvaneshwar D V, Janani R S

Anumodh S Kumar
Uvaneshwar D V
Janani R S

Enhanced V2V Communication For Automobiles To Reduce Collision

Driving Towards Safety: Advancing Vehicle-to-Vehicle Communication to Prevent Collisions

LAMBERT Academic Publishing

Mr Anumodh S Kumar, Mr Uvaneshwar D V and Ms Janani R S published a **final project thesis on "Enhanced V2V Communication for Automobile to reduce Collision"** as a book publication in Lambert Academic Publishing, with the ISBN 9786207474325.

STUDENT ACHIEVEMENT

ELECTRICAL AND ELECTRONICS ENGINEERING

Mr Isthiyaq Ahamed A, Mr Salmanual Faris M and Ms Sri Ragavarshini K published a **final project thesis on "Fuzzified Control for Band Dryer System"** as a book publication in Lambert Academic Publishing, with the ISBN 9786207465811.

Precise temperature control is crucial in band dryer systems to ensure product quality, process efficiency, and energy conservation. However, traditional proportional-integral-Derivative (PID) controllers often struggle with the nonlinearities, uncertainties, and disturbances inherent in these systems. This research investigates the application of a fuzzy logic-based PID controller (FL-PID) to achieve robust and adaptive temperature control in a band dryer system. This work proposes a novel approach that combines the strengths of fuzzy logic and PID control, and we have carried out simulation work for fuzzy control procedures and PID control procedures in MATLAB Simulink. This adaptive tuning allows the controller to react quickly to disturbances and maintain tight temperature tracking, minimizing overshoot and settling time.

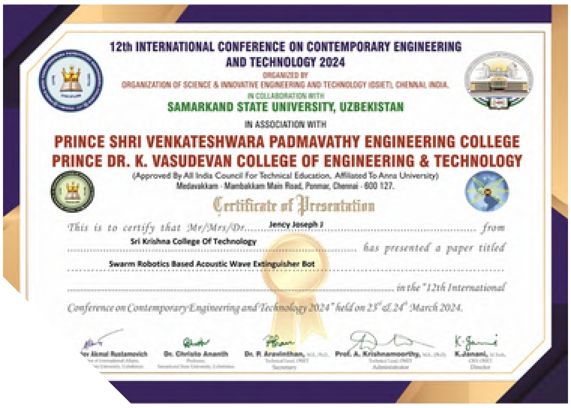
Sri Ragavarshini K, has completed her undergrad in the discipline of instrumentation and control engineering at Sri Krishna College of Technology, Coimbatore, Tamil Nadu, India. Her research interests include the design and tuning of controllers, product development, machine learning, and parameter monitoring in the process control industry.

Sri Ragavarshini K.
Isthiyaq Ahamed A.
Salmanul Faris M.

Fuzzified Control for Band Dryer System

A simple approach for thermal regulation

STUDENT ACHIEVEMENT



12th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2024
ORGANIZED BY
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN
IN ASSOCIATION WITH
PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
PRINCE DR. K. VASUDEVAN COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved By All India Council For Technical Education, Affiliated To Anna University)
Medavakkam - Mambakkam Main Road, Ponmar, Chennai - 600 127.

Certificate of Presentation

This is to certify that Mr/Mrs/Dr. Jency Joseph J *from* Sri Krishna College Of Technology *has presented a paper titled* Swarm Robotics Based Acoustic Wave Extinguisher Bot *in the "12th International Conference on Contemporary Engineering and Technology 2024" held on 23rd & 24th March 2024.*

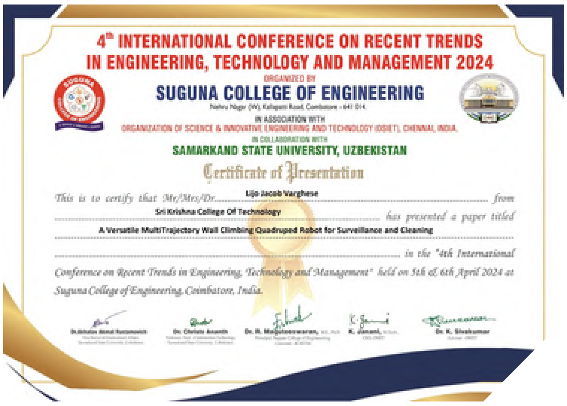
ov Akmal Rustamovich | Dr. Christo Ananth | Dr. P. Aravinthan | Prof. A. Krishnamoorthy | K.Janani

Dr Jency Joseph J, Associate Professor, published a **research article** titled **"Swarm Robotics based acoustic wave extinguisher bot"** in the 12th International Conference on Contemporary Engineering and Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Chennai during 23-24 March 2024.

FACULTY ACHIEVEMENT

ELECTRICAL AND ELECTRONICS ENGINEERING

Dr Lijo Jacob Varghese, Professor and Head, published a **research article** titled **"A versatile Multi Trajectory wall climbing Quadruped robot for surveillance and Cleaning"** in the 4th International Conference on Recent trends in Engineering, Technology and Management, Suguna College of Engineering, Chennai during 05-06 April 2024.



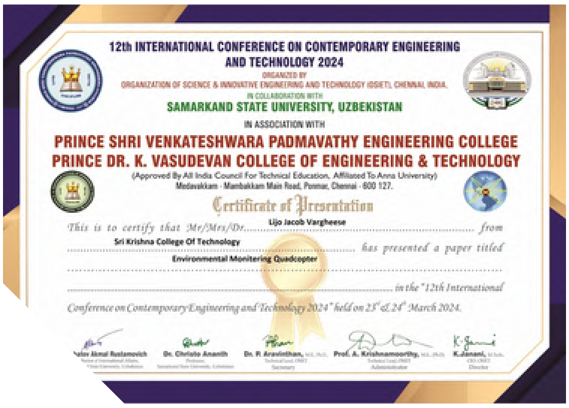
4th INTERNATIONAL CONFERENCE ON RECENT TRENDS IN ENGINEERING, TECHNOLOGY AND MANAGEMENT 2024
ORGANIZED BY
SUGUNA COLLEGE OF ENGINEERING
Nehru Nagar (W), Kallapatti Road, Coimbatore - 641 014.
IN ASSOCIATION WITH
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN

Certificate of Presentation

This is to certify that Mr/Mrs/Dr. Lijo Jacob Varghese from Sri Krishna College Of Technology has presented a paper titled A Versatile MultiTrajectory Wall Climbing Quadruped Robot for Surveillance and Cleaning in the "4th International Conference on Recent Trends in Engineering, Technology and Management" held on 5th & 6th April 2024 at Suguna College of Engineering, Coimbatore, India.

Dr. Christo Ananth
K. Janani
Dr. K. Sivakumar

FACULTY ACHIEVEMENT



12th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2024
ORGANIZED BY
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN
IN ASSOCIATION WITH
PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
PRINCE DR. K. VASUDEVAN COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved By All India Council For Technical Education, Affiliated To Anna University)
Medavakkam - Mambakkam Main Road, Ponmar, Chennai - 600 127.

Certificate of Presentation

This is to certify that Mr/Mrs/Dr. Lijo Jacob Vargheese from Sri Krishna College Of Technology has presented a paper titled Environmental Monitoring Quadcopter in the "12th International Conference on Contemporary Engineering and Technology 2024" held on 23rd & 24th March 2024.

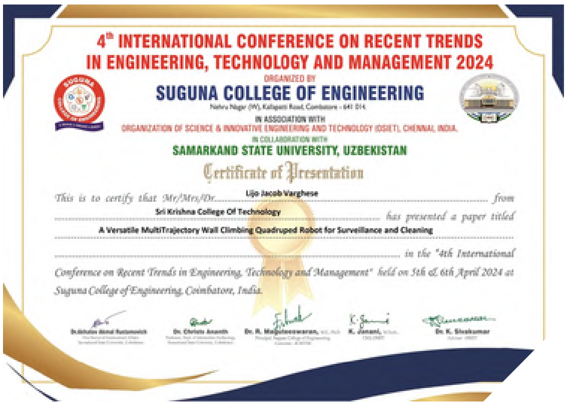
Dr. Christo Ananth
Dr. P. Aravinthan, Secretary
Prof. A. Krishnamoorthy, Administrator
K.Janani, Director

Dr Lijo Jacob Varghese, Professor and Head, published a **research article** titled **"Environmental Monitoring Quadcopter"** in the 12th International Conference on Contemporary Engineering and Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Chennai during 23-24 March 2024.

FACULTY ACHIEVEMENT

ELECTRICAL AND ELECTRONICS ENGINEERING

Dr Lijo Jacob Varghese, Professor and Head, published a **research article** titled **"A versatile Multi Trajectory wall climbing Quadruped robot for surveillance and Cleaning"** in the 4th International Conference on Recent trends in Engineering, Technology and Management, Suguna College of Engineering, Chennai during 05-06 April 2024.



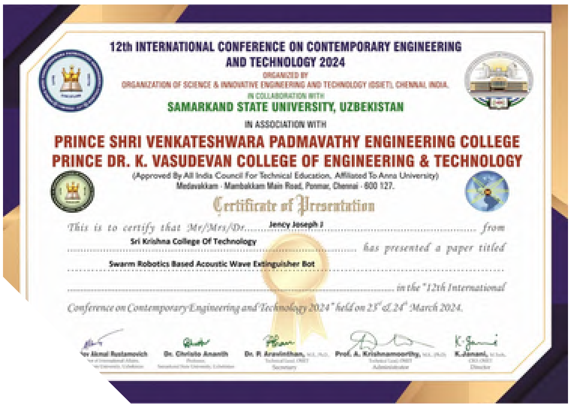
4th INTERNATIONAL CONFERENCE ON RECENT TRENDS IN ENGINEERING, TECHNOLOGY AND MANAGEMENT 2024
ORGANIZED BY
SUGUNA COLLEGE OF ENGINEERING
Nehru Nagar (W), Kallapatti Road, Coimbatore - 641 014.
IN ASSOCIATION WITH
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN

Certificate of Presentation

This is to certify that Mr/Mrs/Dr. Lijo Jacob Varghese from Sri Krishna College Of Technology has presented a paper titled A Versatile MultiTrajectory Wall Climbing Quadruped Robot for Surveillance and Cleaning in the "4th International Conference on Recent Trends in Engineering, Technology and Management" held on 5th & 6th April 2024 at Suguna College of Engineering, Coimbatore, India.

Dr. Christo Ananth
Dr. R. Maguteeswaran
K. Janani
Dr. K. Sivakumar

FACULTY ACHIEVEMENT



12th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2024
ORGANIZED BY
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN
IN ASSOCIATION WITH
PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
PRINCE DR. K. VASUDEVAN COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved By All India Council For Technical Education, Affiliated To Anna University)
Medavakkam - Mambakkam Main Road, Ponmar, Chennai - 600 127.

Certificate of Presentation

This is to certify that Mr/Mrs/Dr. Jency Joseph J from Sri Krishna College Of Technology has presented a paper titled Swarm Robotics Based Acoustic Wave Extinguisher Bot in the "12th International Conference on Contemporary Engineering and Technology 2024" held on 23rd & 24th March 2024.

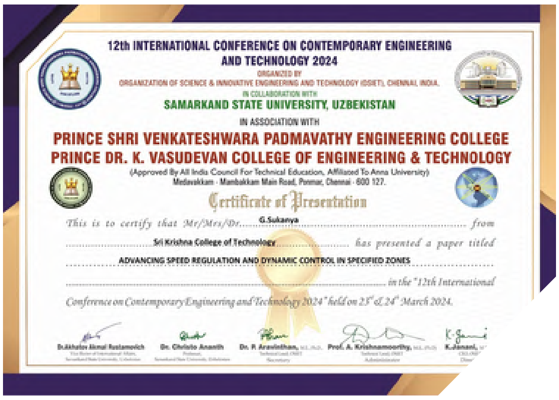
Akmal Rustamovich
Dr. Christo Ananth
Dr. P. Aravinthan
Prof. A. Krishnamoorthy
K.Janani

Dr Lijo Jacob Varghese, Professor and Head, published a **research article** titled **"Environmental Monitoring Quadcopter"** in the 12th International Conference on Contemporary Engineering and Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Chennai during 23-24 March 2024.

FACULTY ACHIEVEMENT

ELECTRICAL AND ELECTRONICS ENGINEERING

Ms Sukanya G, Assistant Professor, published a **research article** titled **"Advancing speed regulation and dynamic control in specified zones"** in the 12th International Conference on Contemporary Engineering and Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Chennai during 23-24 March 2024.



12th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2024
ORGANIZED BY
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN
IN ASSOCIATION WITH
PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
PRINCE DR. K. VASUDEVAN COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved By All India Council For Technical Education, Affiliated To Anna University)
Medavakkam - Mambakkam Main Road, Ponmar, Chennai - 600 127.

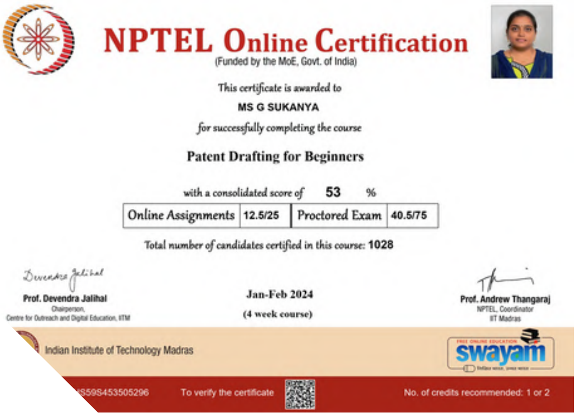
Certificate of Presentation

This is to certify that Mr/Mrs/Dr. G.Sukanya *from* Sri Krishna College of Technology *has presented a paper titled* ADVANCING SPEED REGULATION AND DYNAMIC CONTROL IN SPECIFIED ZONES *in the "12th International Conference on Contemporary Engineering and Technology 2024" held on 23rd & 24th March 2024.*

Dr.Akhatov Akmal Rustamovich
Dr. Christo Ananth
Dr. P. Aravinthan
Prof. A. Krishnamoorthy
K.Janani

FACULTY ACHIEVEMENT

Mr Suresh K P and **Ms Sukanya G,** Assistant Professors, completed the NPTEL Certification course on Patent Drafting for Beginners.



NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
MS G SUKANYA
for successfully completing the course
Patent Drafting for Beginners
with a consolidated score of 53 %

Online Assignments	12.5/25	Proctored Exam	40.5/75

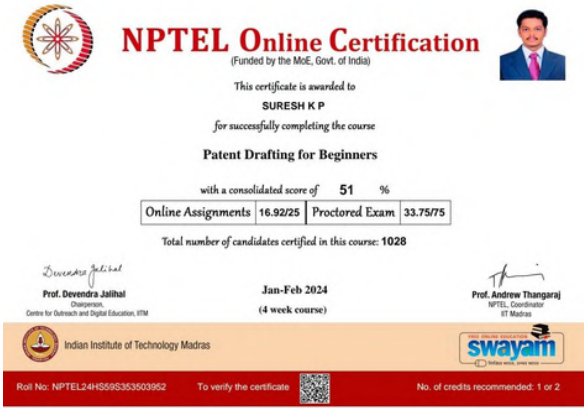
Total number of candidates certified in this course: 1028

Devendra Jalihal
Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2024
(4 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras
swayam
S59S453505296 To verify the certificate No. of credits recommended: 1 or 2



NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
SURESH K P
for successfully completing the course
Patent Drafting for Beginners
with a consolidated score of 51 %

Online Assignments	16.92/25	Proctored Exam	33.75/75

Total number of candidates certified in this course: 1028

Devendra Jalihal
Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2024
(4 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

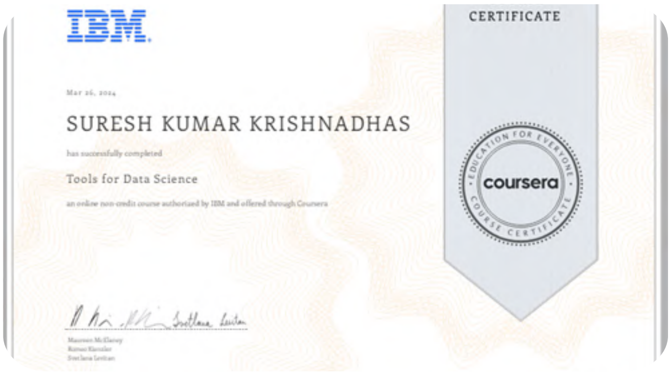
Indian Institute of Technology Madras
swayam
Roll No: NPTEL24HS59S353503952 To verify the certificate No. of credits recommended: 1 or 2

FACULTY ONLINE CERTIFICATIONS

INFORMATION TECHNOLOGY

CERTIFICATION

Mr K Suresh Kumar, Assistant Professor, completed a course on **Tools for Data Science.**



IBM

CERTIFICATE

Mar 26, 2024

SURESH KUMAR KRISHNADHAS

has successfully completed

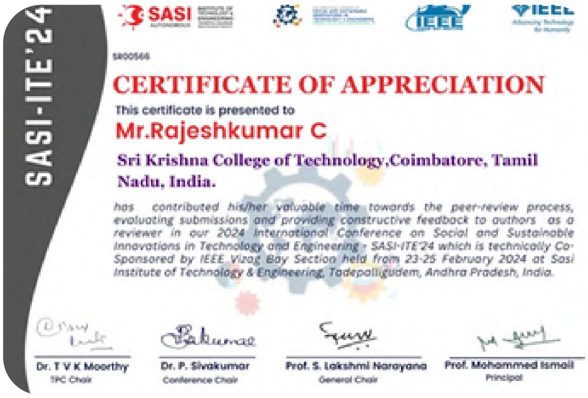
Tools for Data Science

an online non-credit course authorized by IBM and offered through Coursera

coursera

EDUCATION FOR EVERYONE · COURSE CERTIFICATE

FACULTY ONLINE CERTIFICATION



SASI-ITE'24

CERTIFICATE OF APPRECIATION

This certificate is presented to

Mr.Rajeshkumar C

Sri Krishna College of Technology,Coimbatore, Tamil Nadu, India.

has contributed his/her valuable time towards the peer-review process, evaluating submissions and providing constructive feedback to authors as a reviewer in our 2024 International Conference on Social and Sustainable Innovations in Technology and Engineering - SASI-ITE'24 which is technically Co-Sponsored by IEEE Vizag Bay Section held from 23-25 February 2024 at Sasi Institute of Technology & Engineering, Tadepalligudem, Andhra Pradesh, India.

Dr. T V K Moorthy
TPC Chair

Dr. P. Sivakumar
Conference Chair

Prof. S. Lakshmi Narayana
General Chair

Prof. Mohammed Ismail
Principal

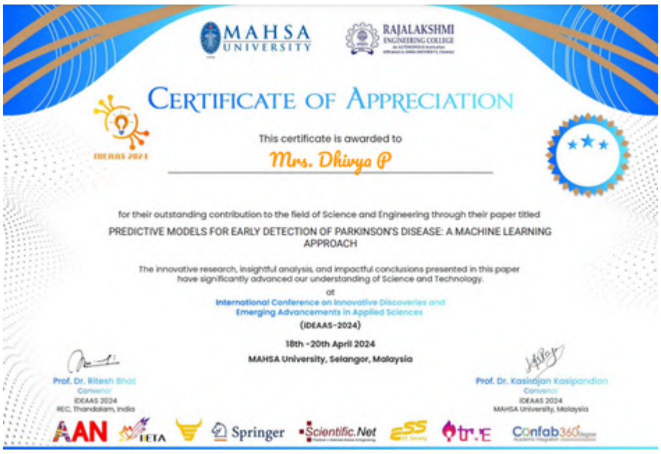
Mr C RajeshKumar, Assistant Professor served as **a reviewer in the International Conference on Social and Sustainable Innovation in Technology and Engineering** –SASI-ITE'24.

FACULTY ACHIEVEMENT

INFORMATION TECHNOLOGY

CERTIFICATIONS

Ms P Dhivya, Assistant Professor, presented a paper on **Predictive Models for Early Prediction of Parkinson's Disease, A Machine Learning Approach.**



MAHSA UNIVERSITY
RAJALAKSHMI ENGINEERING COLLEGE

CERTIFICATE OF APPRECIATION

IDEAAS 2024

This certificate is awarded to

Mrs. Dhivya P

for their outstanding contribution to the field of Science and Engineering through their paper titled

PREDICTIVE MODELS FOR EARLY DETECTION OF PARKINSON'S DISEASE: A MACHINE LEARNING APPROACH

The innovative research, insightful analysis, and impactful conclusions presented in this paper have significantly advanced our understanding of Science and Technology.

at

International Conference on Innovative Discoveries and Emerging Advancements in Applied Sciences
(IDEAAS-2024)

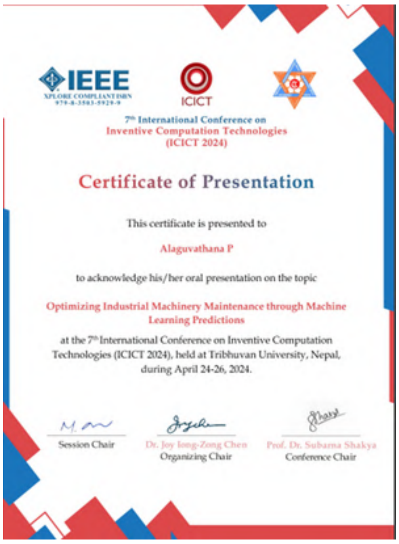
18th - 20th April 2024
MAHSA University, Selangor, Malaysia

Prof. Dr. Ritesh Bhat
Convenor
IDEAAS 2024
REC, Thandalam, India

Prof. Dr. Kasirajan Kasipandian
Convenor
IDEAAS 2024
MAHSA University, Malaysia

AAN IIETA Springer Scientific.Net ESS Confab360

FACULTY PARTICIPATION



IEEE XPLORE COMPLIANT ISBN 979-8-3503-5929-9
ICICT

7th International Conference on Inventive Computation Technologies (ICICT 2024)

Certificate of Presentation

This certificate is presented to

Alaguvathana P

to acknowledge his/her oral presentation on the topic

Optimizing Industrial Machinery Maintenance through Machine Learning Predictions

at the 7th International Conference on Inventive Computation Technologies (ICICT 2024), held at Tribhuvan University, Nepal, during April 24-26, 2024.

Session Chair

Dr. Joy Iong-Zong Chen
Organizing Chair

Prof. Dr. Subarna Shakya
Conference Chair

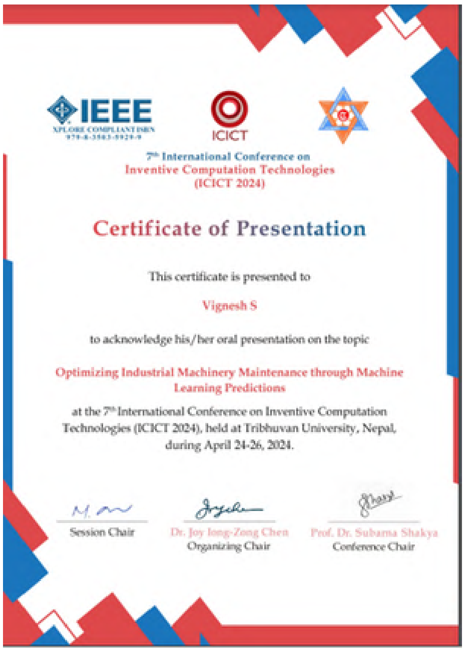
Ms P Alaguvatha, Assistant Professor, presented a paper on **Optimizing Industrial Machinery Maintenance through Machine Learning Predictions** at the 7th International Conference on Inventive Computation Technologies - ICICT 2024, organized by Tribhuvan University, Nepal.

FACULTY PARTICIPATION

INFORMATION TECHNOLOGY

CERTIFICATIONS

Ms R Dhana Priya, Ms Monica R and Ms Kavi Priya T, presented a paper titled **"Optimizing crop yield prediction for Agaricus bisporus in controlled environment using Machine Learning Technique"** in the 12th International Conference on Contemporary Engineering and Technology 2024 organised during 23-24 March 2024.



IEEE XPLORE COMPLIANT ISBN

ICICT

7th International Conference on
Inventive Computation Technologies
(ICICT 2024)

Certificate of Presentation

This certificate is presented to

Vignesh S

to acknowledge his/her oral presentation on the topic

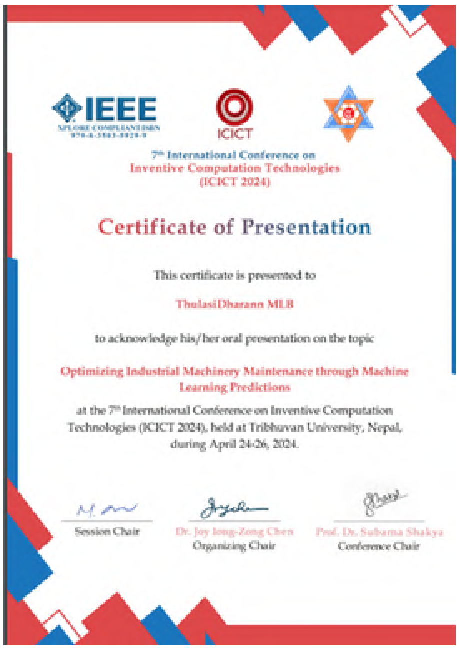
Optimizing Industrial Machinery Maintenance through Machine Learning Predictions

at the 7th International Conference on Inventive Computation Technologies (ICICT 2024), held at Tribhuvan University, Nepal, during April 24-26, 2024.

Session Chair

Dr. Joy Iong-Zong Chen
Organizing Chair

Prof. Dr. Subarna Shakya
Conference Chair



IEEE XPLORE COMPLIANT ISBN

ICICT

7th International Conference on
Inventive Computation Technologies
(ICICT 2024)

Certificate of Presentation

This certificate is presented to

ThulasiDharann MLB

to acknowledge his/her oral presentation on the topic

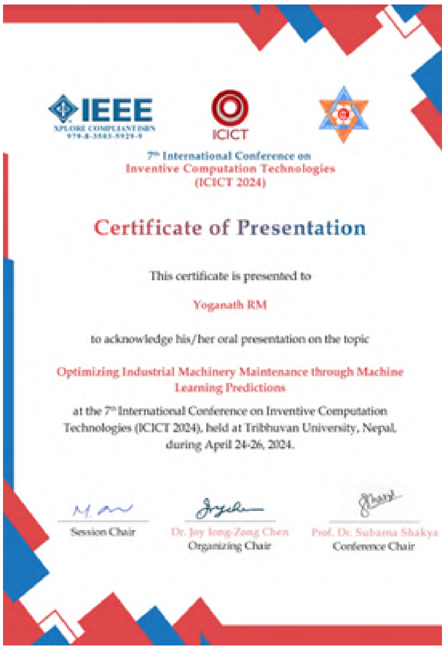
Optimizing Industrial Machinery Maintenance through Machine Learning Predictions

at the 7th International Conference on Inventive Computation Technologies (ICICT 2024), held at Tribhuvan University, Nepal, during April 24-26, 2024.

Session Chair

Dr. Joy Iong-Zong Chen
Organizing Chair

Prof. Dr. Subarna Shakya
Conference Chair



IEEE XPLORE COMPLIANT ISBN

ICICT

7th International Conference on
Inventive Computation Technologies
(ICICT 2024)

Certificate of Presentation

This certificate is presented to

Yoganath RM

to acknowledge his/her oral presentation on the topic

Optimizing Industrial Machinery Maintenance through Machine Learning Predictions

at the 7th International Conference on Inventive Computation Technologies (ICICT 2024), held at Tribhuvan University, Nepal, during April 24-26, 2024.

Session Chair

Dr. Joy Iong-Zong Chen
Organizing Chair

Prof. Dr. Subarna Shakya
Conference Chair

STUDENTS PARTICIPATION

INFORMATION TECHNOLOGY

The Department of Information Technology and the Department of Civil Engineering of Sri Krishna College of Technology in association with IIC organized a **seminar** on **"Intellectual Property Rights"** at PG Block Class Room 2 on 26.04.2024 facilitated by **Dr S Sundararaj**, Professor, Department of Mechanical Engineering, Innovation ambassador of IIC,SKCT.

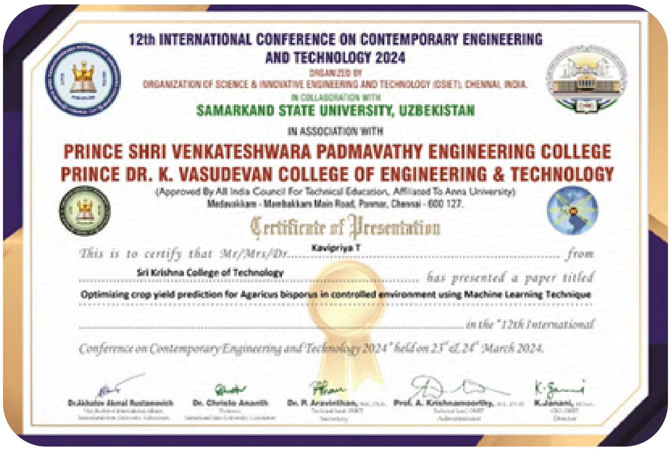
Overview of IPR

EVENT ORGANIZED

INFORMATION TECHNOLOGY

CERTIFICATIONS

Mr Vignesh S, Mr ThulasiDharann M L B and Mr Yoganath R M presented a paper on **Optimizing Industrial Machinery Maintenance through Machine Learning Predictions** at the 7th International Conference on Inventive Computation Technologies - ICICT 2024, organized by Tribhuvan University, Nepal.

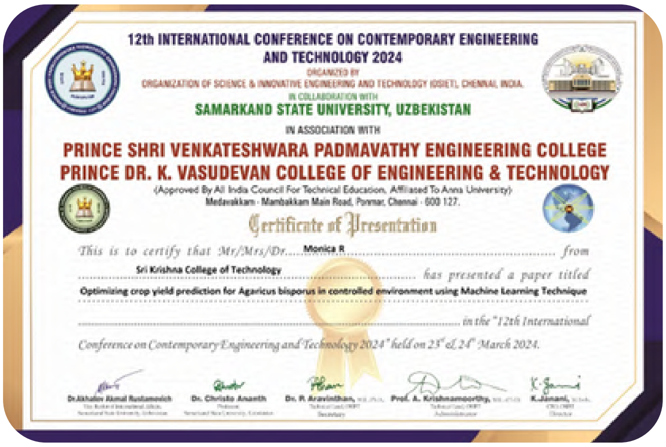


12th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2024
ORGANIZED BY
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN
IN ASSOCIATION WITH
PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
PRINCE DR. K. VASUDEVAN COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved By All India Council For Technical Education, Affiliated To Anna University)
Medavakkam - Mambakkam Main Road, Ponmar, Chennai - 600 127.

Certificate of Presentation

This is to certify that Mr/Mrs/Dr. Kavipriya T from Sri Krishna College of Technology has presented a paper titled Optimizing crop yield prediction for Agaricus bisporus in controlled environment using Machine Learning Technique in the "12th International Conference on Contemporary Engineering and Technology 2024" held on 23rd & 24th March 2024.

Dr.Akhatov Akmal Rustamovich | Dr. Christo Ananth | Dr. P. Aravinthan, Secretary | Prof. A. Krishnamoorthy, Administrator | K.Janani, Director

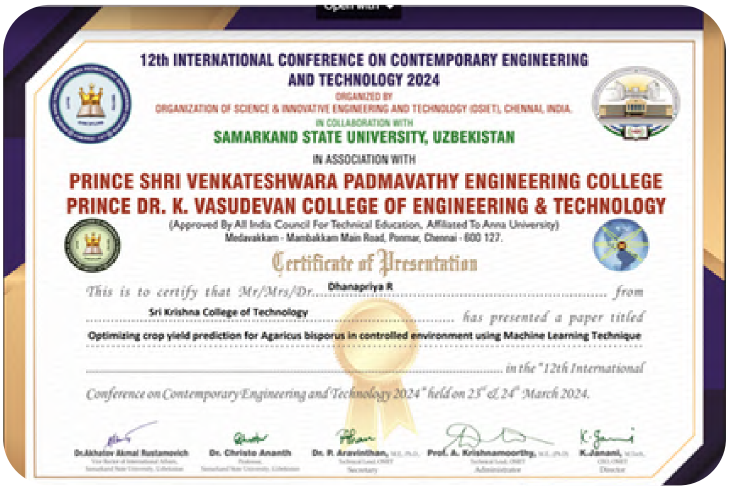


12th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2024
ORGANIZED BY
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN
IN ASSOCIATION WITH
PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
PRINCE DR. K. VASUDEVAN COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved By All India Council For Technical Education, Affiliated To Anna University)
Medavakkam - Mambakkam Main Road, Ponmar, Chennai - 600 127.

Certificate of Presentation

This is to certify that Mr/Mrs/Dr. Monica R from Sri Krishna College of Technology has presented a paper titled Optimizing crop yield prediction for Agaricus bisporus in controlled environment using Machine Learning Technique in the "12th International Conference on Contemporary Engineering and Technology 2024" held on 23rd & 24th March 2024.

Dr.Akhatov Akmal Rustamovich | Dr. Christo Ananth | Dr. P. Aravinthan, Secretary | Prof. A. Krishnamoorthy, Administrator | K.Janani, Director



12th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2024
ORGANIZED BY
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.
IN COLLABORATION WITH
SAMARKAND STATE UNIVERSITY, UZBEKISTAN
IN ASSOCIATION WITH
PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
PRINCE DR. K. VASUDEVAN COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved By All India Council For Technical Education, Affiliated To Anna University)
Medavakkam - Mambakkam Main Road, Ponmar, Chennai - 600 127.

Certificate of Presentation

This is to certify that Mr/Mrs/Dr. Dhanapriya R from Sri Krishna College of Technology has presented a paper titled Optimizing crop yield prediction for Agaricus bisporus in controlled environment using Machine Learning Technique in the "12th International Conference on Contemporary Engineering and Technology 2024" held on 23rd & 24th March 2024.

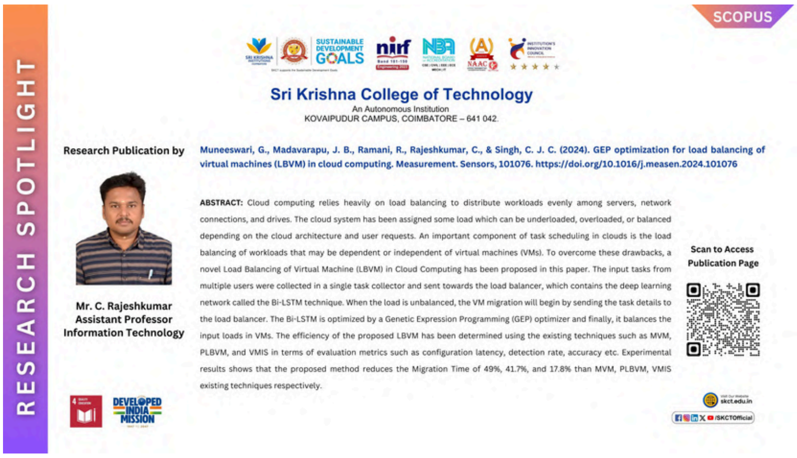
Dr.Akhatov Akmal Rustamovich | Dr. Christo Ananth | Dr. P. Aravinthan, Secretary | Prof. A. Krishnamoorthy, Administrator | K.Janani, Director

STUDENT PARTICIPATIONS

INFORMATION TECHNOLOGY

PUBLICATIONS

Mr. C. Rajeshkumar, Assistant Professor Information Technology have published article in Journal of Research titled Hybrid Optimized Energy-Efficient Adaptive Clustered Routing for WSN his research proposes a novel method using GBC and AAVO algorithms to improve energy efficiency in Wireless Sensor Networks.



RESEARCH SPOTLIGHT

SCOPUS

Sri Krishna College of Technology
An Autonomous Institution
KOVAIPUDUR CAMPUS, COIMBATORE – 641 042.

Research Publication by

Muneeswari, G., Madavarapu, J. B., Ramani, R., Rajeshkumar, C., & Singh, C. J. C. (2024). GEP optimization for load balancing of virtual machines (LBVM) in cloud computing. Measurement. Sensors, 101076. https://doi.org/10.1016/j.measen.2024.101076

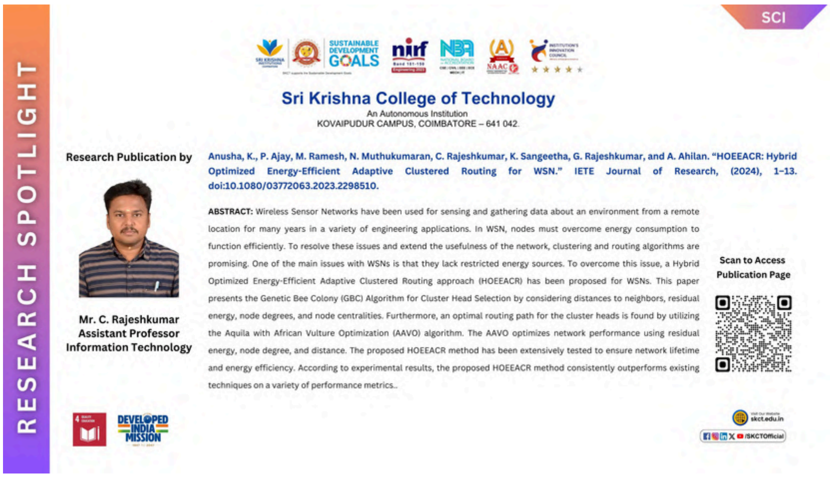
Mr. C. Rajeshkumar
Assistant Professor
Information Technology

ABSTRACT: Cloud computing relies heavily on load balancing to distribute workloads evenly among servers, network connections, and drives. The cloud system has been assigned some load which can be underloaded, overloaded, or balanced depending on the cloud architecture and user requests. An important component of task scheduling in clouds is the load balancing of workloads that may be dependent or independent of virtual machines (VMs). To overcome these drawbacks, a novel Load Balancing of Virtual Machine (LBVM) in Cloud Computing has been proposed in this paper. The input tasks from multiple users were collected in a single task collector and sent towards the load balancer, which contains the deep learning network called the Bi-LSTM technique. When the load is unbalanced, the VM migration will begin by sending the task details to the load balancer. The Bi-LSTM is optimized by a Genetic Expression Programming (GEP) optimizer and finally, it balances the input loads in VMs. The efficiency of the proposed LBVM has been determined using the existing techniques such as MVM, PLBVM, and VMIS in terms of evaluation metrics such as configuration latency, detection rate, accuracy etc. Experimental results shows that the proposed method reduces the Migration Time of 49%, 41.7%, and 17.8% than MVM, PLBVM, VMIS existing techniques respectively.

Scan to Access Publication Page

DEVELOPED INDIA MISSION

skct.edu.in
/SKCTOfficial



RESEARCH SPOTLIGHT

SCI

Sri Krishna College of Technology
An Autonomous Institution
KOVAIPUDUR CAMPUS, COIMBATORE – 641 042.

Research Publication by

Anusha, K., P. Ajay, M. Ramesh, N. Muthukumaran, C. Rajeshkumar, K. Sangeetha, G. Rajeshkumar, and A. Ahilan. "HOEEACR: Hybrid Optimized Energy-Efficient Adaptive Clustered Routing for WSN." IETE Journal of Research, (2024), 1–13. doi:10.1080/03772063.2023.2298510.

Mr. C. Rajeshkumar
Assistant Professor
Information Technology

ABSTRACT: Wireless Sensor Networks have been used for sensing and gathering data about an environment from a remote location for many years in a variety of engineering applications. In WSN, nodes must overcome energy consumption to function efficiently. To resolve these issues and extend the usefulness of the network, clustering and routing algorithms are promising. One of the main issues with WSNs is that they lack restricted energy sources. To overcome this issue, a Hybrid Optimized Energy-Efficient Adaptive Clustered Routing approach (HOEEACR) has been proposed for WSNs. This paper presents the Genetic Bee Colony (GBC) Algorithm for Cluster Head Selection by considering distances to neighbors, residual energy, node degrees, and node centralities. Furthermore, an optimal routing path for the cluster heads is found by utilizing the Aquila with African Vulture Optimization (AAVO) algorithm. The AAVO optimizes network performance using residual energy, node degree, and distance. The proposed HOEEACR method has been extensively tested to ensure network lifetime and energy efficiency. According to experimental results, the proposed HOEEACR method consistently outperforms existing techniques on a variety of performance metrics..

Scan to Access Publication Page

DEVELOPED INDIA MISSION

skct.edu.in
/SKCTOfficial

FACULTY ACHIEVEMENT

INFORMATION TECHNOLOGY

INTERNSHIP OFFERS

III year students specializing in IT, has clinched a coveted internship position at Accenture. They set to embark on this exciting opportunity, which comes with a stipend of Rs.16,500, showcasing her dedication and prowess in the field.

Mr Sivasankar

Ms.Hemaharshini

Ms Sanchana

accenture

STUDENT PLACEMENT

MECHANICAL

Mr Jeevanandhan and Mr Habeeb of the Batch 2024 received the placement offer in **Pinnacle InfoTech** with a package of **3 LPA** coordinated by Dr R B Jeen Robert, Professor.

PLACEMENT

MECHANICAL

S STARTUP
AWARDS
2024
OneYes STARTUP FEST
India's Biggest Startup Fest

Dr R B Jeen Robert, Professor, participated in a OneYes Startup Fest and **received the award** for the **Best College for Innovation Excellence** at Leo Muthu Indoor Stadium, Chennai scheduled during 05.04.2024.

FACULTY ACHIEVEMENT

MECHANICAL

Materials Science Forum
ISSN: 1662-9752, Vol. 1119, pp 73-86
doi:10.4028/p-DFL72e
© 2024 Trans Tech Publications Ltd, Switzerland

Submitted: 2023-08-07
Accepted: 2023-10-30
Online: 2024-03-29

Investigations on Varying Compositions of Nylon 6 Polymer Matrix Composites for Wear Reduction in Application to Gears

V. Karthi[1,a], N. Mohan Raj[2,b*], J. Baskaran[2,c],

[1]Department of Mechanical Engineering, SNS College of Technology, Coimbatore, Tamil Nadu, India

[2]Department of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore - 641042, Tamil Nadu, India

[a]karthicsarathy@gmail.com, [b]mohanrajnagarajan@gmail.com, [c]baskaranmfgresearch@gmail.com

Keywords:, TGA, Tensile, Compression, Flexural Test, Wear test

Abstract. In power transmission systems, gears are the most essential parts. Gear failure would happen at any regular working cycles and it must be avoided with special care. The mode of failure suggests that optimum material and suitable post processing has to be done. Industry demands more efficient, reliable, and lightweight gears. Hence more efficient, reliable, and lightweight gears must be developed and manufactured. Eventhough lot of investment is being done on research and implementing new technologies while manufacturing gears, stills some failures is arised. Many physical factors, including the inappropriate materials composition, may induce gear failure. In this paper, some typical diverse materials, like nylon 6 and glass fibers are mixed with various volume proportions to enhance wear resistance and improve gear's life. Polymer gears developed in this study offer more superior life than pure nylon gears. All the prepared specimen samples are tested to a variety of studies including Tensile, Compression, Flexural, Impact, TGA and Wear tests. Depreciation is not reducing low, however. 90% nylon 6 + 10 % Glass fiber to 10% nylon 6+ 90Glass fiber 10 % Nylon 6 has mixed for investigation. Based on the investigation, 70% of Nylon 6 + 30% glass fiber has high strength, low wear, and high wear resistance.

1. Introduction

Various types of gear are being used to power transmission area. There are various types of gears and made of metallic materials and non-metallic materials. Metallic means Cast Iron, Steel, and Aluminum. Non-metallic materials include wood, polymer, and natural fiber, etc. Polymer gears are commonly used in Light Load and Medium Load applications instead of Metallic Gears [1-3]. Generally Polymer matrix composite is fast becoming popular in many applications of engineering. In particular the automobile industries, textile industries and food industries [4-5]. Polymer matrix composites with high performance and low weight are the best choice for conventional materials. Glass fiber composite polymer matrix gives greater strength and hardness [6-8]. The mechanical strength produced by pure Nylon 6 is inferior in comparison to the results of a combination made of Nylon 6 with glass fiber reinforcement. This will increase the efficiency of Glass Fiber gradually [9-10]. Different thermoplastic polymers can be further strengthened by adding glass fibre [11]. In the past 2 decades, a variety of composites have investigated. The addition of reinforcement in polymer has improved the results [12-13]. Polymer materials have been used at less weight applications and not much lubrication is needed. Polymer Matrix Composites are increasing demand these days due to its excellent quality, attractive look, improved features, and ease of manufacture [14]. Since of its faster production rate and capacity to manufacture complex shape of various sizes at a low in cost and a greater pace of output overall. Injection molding is a widespread and commonly used method for the production of plastics. [15-16]. The flexural yield strength, flexural modulus, and The impact resistance about a polymer in its purest form is the smallest, but they rapidly improve as the glass fiber component increases. ABS and HPDE materials are used to

All rights reserved. No part of contents of this paper may be reproduced or transmitted in any form or by any means without the written permission of Trans Tech Publications Ltd, www.scientific.net. (#643000664-29/03/24,12:44:04)

Dr N Mohan Raj, Associate Professor, published an article in the journal of **Material Science Forum Scopus Indexed (Q4).**

Dr N Mohan Raj, Associate Professor, published an article in the journal of **Key Engineering Materials Scopus Indexed (Q4).**

An Investigation about Microstructures, Mechanical Properties and Corrosion Behaviour of the TIG – MIG Hybrid Welded Dissimilar UNS 2205 and is 2062 Steels

N. Mohan Raj[1,a], N. Mathan Kumar[2,b], S.Nagaraja[3,c], S.Paulsingarayar[4,d],

[1]Associate Professor, Department of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore, Tamilnadu, India.

[2]Associate Professor, Department of Mechanical Engineering, KPR Institute of Technology, Coimbatore India.

[3]Professor,Department of Mechatronics Engineering, Akshaya College of Engineering & Technology, Kinathukadavu, Coimbatore, India.

[4]Associate Professor, Department of Mechanical Engineering, NPR College of Engineering & Technology, Natham, Dindigul.

[a]Mohanrajnagarajan@gmail.com, [b]mathannagarajbe@gmail.com, [c]nagaraja@acetcbe.edu.in, [d]paulsam74@gmail.com,

Keywords: Stainless steels, dissimilar joints, UNS 2205, IS 2062, microstructures, corrosion behaviour

Abstract. Dissimilar metal joining of double stainless steel to carbon steel was performed using a hybrid welding system. A TIG (Tungsten Inert Gas) welding and MIG (Metal Inert Gas) joining based hybrid joining method was designed. The microstructures of the dissimilar metal joints were studied and the grains are coarser when compared with single welding method alone. The addition of TIG welding to the MIG welding, the wettability improves of the molten metal pool. The nominal corrosion behaviour of the weldments was found better than the single arc welding system alone. The passivation behaviour of the joints was in the similar line to that of double stainless steel base metal. The pitting resistance of the joints in 1 M NaCl solution was inferior to the base metals.

1. Introduction

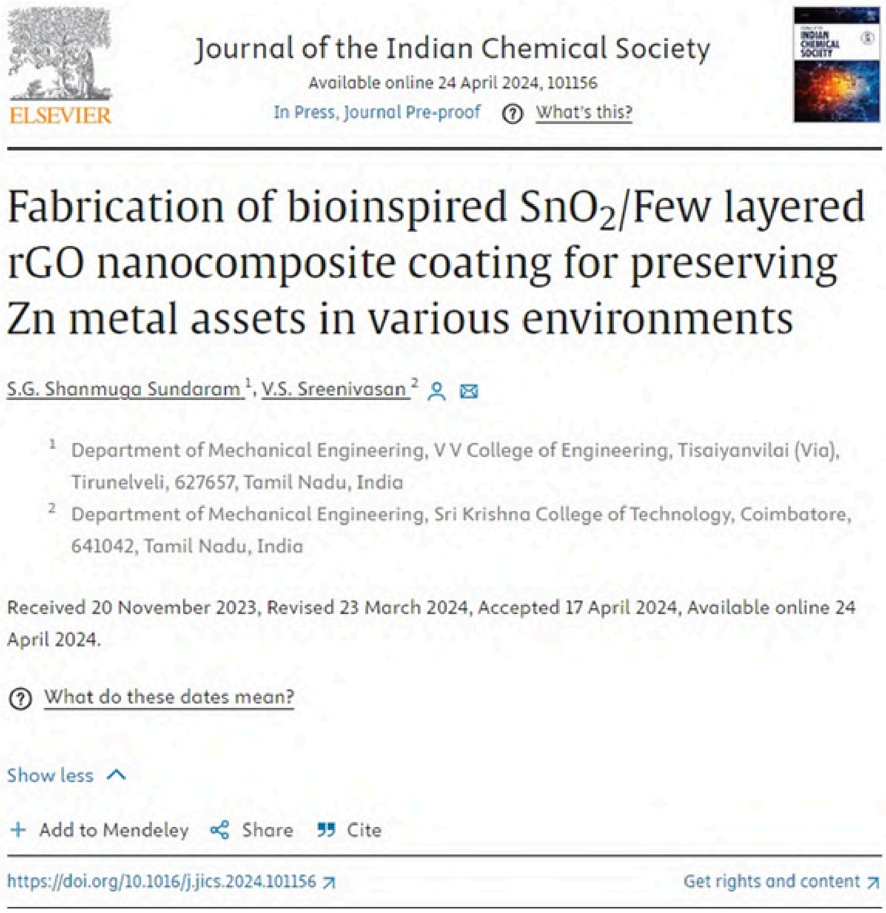
The necessity of joining dissimilar materials has become increasingly important due to their numerous advantages in manufacturing tailor-engineered structures. Joining dissimilar metals with conventional processes poses many technical issues that mainly related to the joint efficiency. The common problems that are applicable to welding different stainless steels are variations in electrochemical properties, migration of carbon from high carbon alloy to low carbon alloy steels, gap in thermal expansion coefficients, and difficulties in post heat treatments of weld beads [1].Dissimilar joining of austenitic stainless steels to plain carbon steels (CS) has been widely attempted in thermal industries [2 – 4]. The migration of carbon related problems has been discussed by Li and Congleton [5] and a detailed study of joint failure in dissimilar stainless steel of a steam generator was presented by Joseph et al. [6]. Significant advances are being made in dissimilar metals importance in variety of application areas and the necessity of knowing about therelationships of the structure and property of the joints has arisen. The available literatures regarding the relationships of the structure and property of dissimilar ferrite and double stainless steel joints are limited [7, 8]. Further, few attempts has been made on explosive bonding and submerged arc surfacing technique based surfacing or overlaying of DSS to CS for corrosion resistant applications [9, 10]. Shielded welding techniques like MIG and TIG are most commonly used joining processes for piping and structural applications. The most commonly employed shielded welding processes for making a joining dissimilar metals are MIG andTIG due to their

All rights reserved. No part of contents of this paper may be reproduced or transmitted in any form or by any means without the written permission of Trans Tech Publications Ltd, www.scientific.net. (#643298314-01/04/24,08:30:19)

FACULTY ACHIEVEMENTS

MECHANICAL

Dr V S Sreenivasan, ASP/Mechanical published an article titled **"Fabrication of bioinspired SnO2/Few layered rGO nanocomposite coating for preserving Zn metal assets in various environments"** in a Journal of the Indian Chemical Society (Elsevier) (Q3 Journal) on 24 April 2024 with an impact factor of 1.3 - SCIE & Scopus indexing.



ELSEVIER
Journal of the Indian Chemical Society
Available online 24 April 2024, 101156
In Press, Journal Pre-proof ⓘ What's this?

Fabrication of bioinspired SnO_2/Few layered rGO nanocomposite coating for preserving Zn metal assets in various environments

S.G. Shanmuga Sundaram [1], V.S. Sreenivasan [2]

[1] Department of Mechanical Engineering, V V College of Engineering, Tisaiyanvilai (Via), Tirunelveli, 627657, Tamil Nadu, India
[2] Department of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore, 641042, Tamil Nadu, India

Received 20 November 2023, Revised 23 March 2024, Accepted 17 April 2024, Available online 24 April 2024.

ⓘ What do these dates mean?

Show less ^

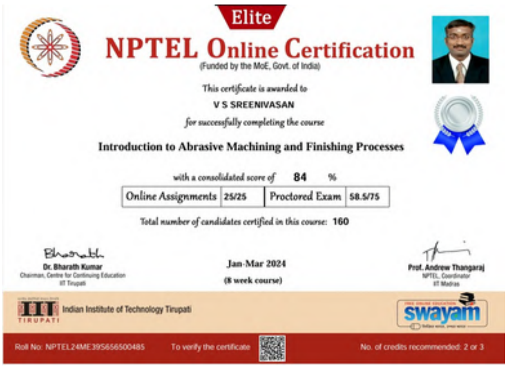
+ Add to Mendeley Share Cite

https://doi.org/10.1016/j.jics.2024.101156 ↗ Get rights and content ↗

FACULTY ACHIEVEMENT

MECHANICAL

NPTEL COURSE



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

V S SREENIVASAN

for successfully completing the course

Introduction to Abrasive Machining and Finishing Processes

with a consolidated score of 84 %

Online Assignments	25/25	Proctored Exam	58.5/75

Total number of candidates certified in this course: 160

Bharath
Dr. Bharath Kumar
Chairman, Centre for Continuing Education
IIT Tirupati

Jan-Mar 2024
(8 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Tirupati

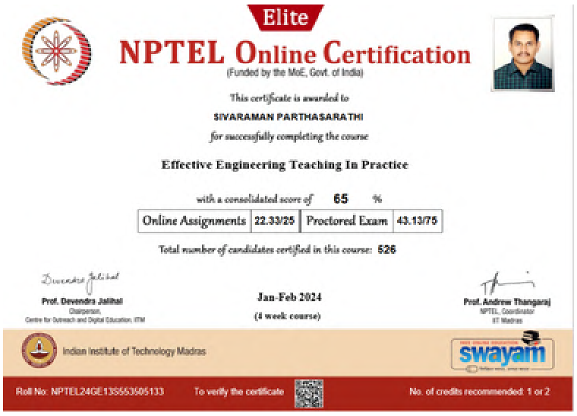
swayam

Roll No: NPTEL24ME39S656500485 To verify the certificate No. of credits recommended: 2 or 3

Dr V S Sreenivasan, Professor, completed NPTEL **course on Introduction to Abrasive Machining and Finishing Processes with Elite Silver.**

FACULTY CERTIFICATION

Mr P Sivaraman, Assistant Professor, completed NPTEL course on **Effective Engineering Teaching In Practice** with **Elite.**



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SIVARAMAN PARTHASARATHI

for successfully completing the course

Effective Engineering Teaching In Practice

with a consolidated score of 65 %

Online Assignments	22.33/25	Proctored Exam	43.13/75

Total number of candidates certified in this course: 526

Devendra Jalihal
Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2024
(4 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

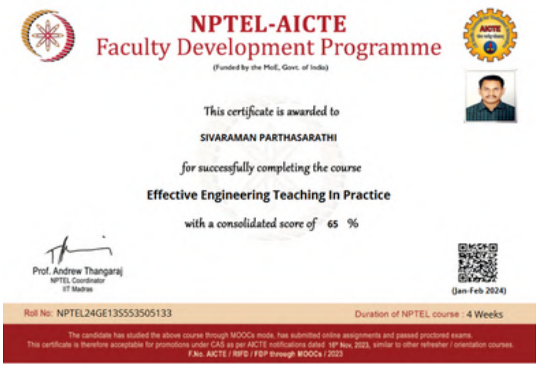
swayam

Roll No: NPTEL24GE13S553505133 To verify the certificate No. of credits recommended: 1 or 2

FACULTY CERTIFICATION

MECHANICAL

NPTEL COURSE



NPTEL-AICTE
Faculty Development Programme
(Funded by the MoE, Govt. of India)

This certificate is awarded to

SIVARAMAN PARTHASARATHI

for successfully completing the course

Effective Engineering Teaching In Practice

with a consolidated score of 65 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Feb 2024)

Roll No: NPTEL24GE13S553505133

Duration of NPTEL course : 4 Weeks

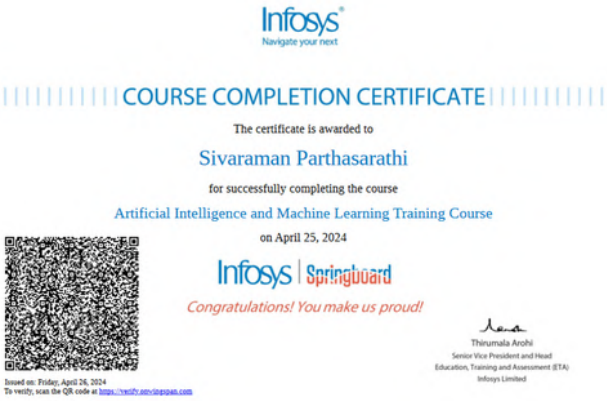
The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 18th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

Mr P Sivaraman, Assistant Professor, attended an **FDP on Effective Engineering Teaching in Practice.**

FACULTY CERTIFICATION

COURSE COMPLETION

Mr Sivaraman P, Assistant Professor, completed a course on **"Artificial Intelligence and Machine Learning Training"** through Infosys springboard.



Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Sivaraman Parthasarathi

for successfully completing the course

Artificial Intelligence and Machine Learning Training Course

on April 25, 2024

Infosys | Springboard

Congratulations! You make us proud!

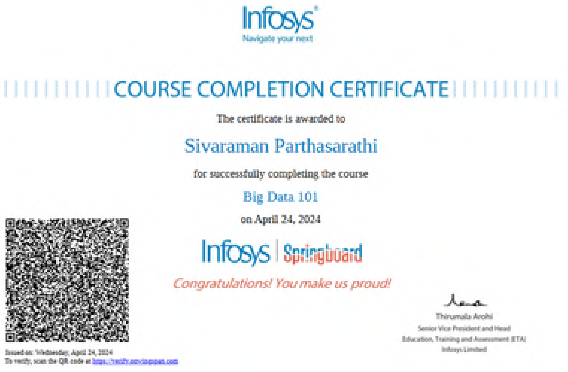
Thirumala Arohi
Senior Vice President and Head
Education, Training and Assessment (ETA)
Infosys Limited

Issued on: Friday, April 26, 2024
To verify, scan the QR code at https://verify.onwingspan.com

FACULTY CERTIFICATION

MECHANICAL

COURSE COMPLETION


Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Sivaraman Parthasarathi

for successfully completing the course

Big Data 101

on April 24, 2024

Infosys | Springboard

Congratulations! You make us proud!

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

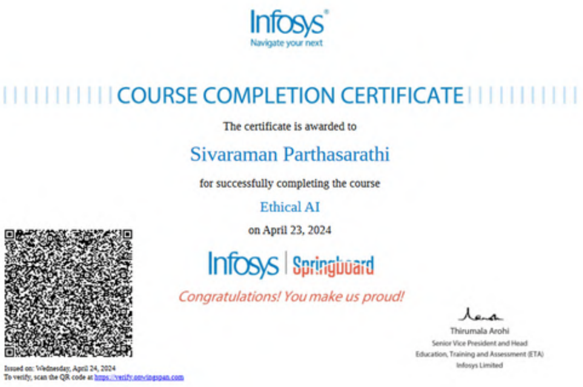
Issued on: Wednesday, April 24, 2024
To verify, scan the QR code at https://verify.onwingspan.com

Mr Sivaraman P, Assistant Professor, completed **"Big Data 101"** course through Infosys springboard.

FACULTY CERTIFICATION

COURSE COMPLETION

Mr Sivaraman P, Assistant Professor, completed **a course on "Ethical AI"** through Infosys springboard.


Infosys
Navigate your next

COURSE COMPLETION CERTIFICATE

The certificate is awarded to

Sivaraman Parthasarathi

for successfully completing the course

Ethical AI

on April 23, 2024

Infosys | Springboard

Congratulations! You make us proud!

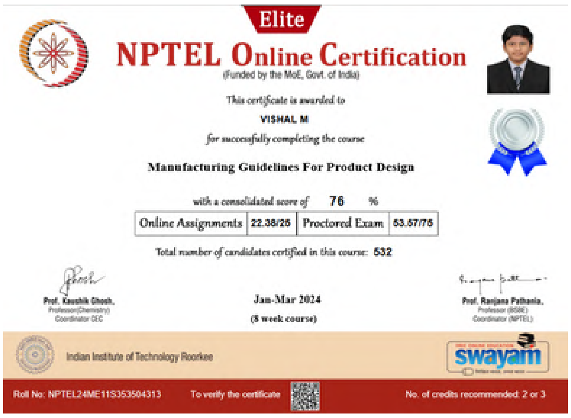
Thirumala Arohi
Senior Vice President and Head
Education, Training and Assessment (ETA)
Infosys Limited

Issued on: Wednesday, April 24, 2024
To verify, scan the QR code at https://verify.onwingspan.com

FACULTY CERTIFICATION

MECHANICAL

NPTEL COURSE



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

VISHAL M

for successfully completing the course

Manufacturing Guidelines For Product Design

with a consolidated score of 76 %

Online Assignments	22.38/25	Proctored Exam	53.57/75

Total number of candidates certified in this course: 532

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Mar 2024
(8 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

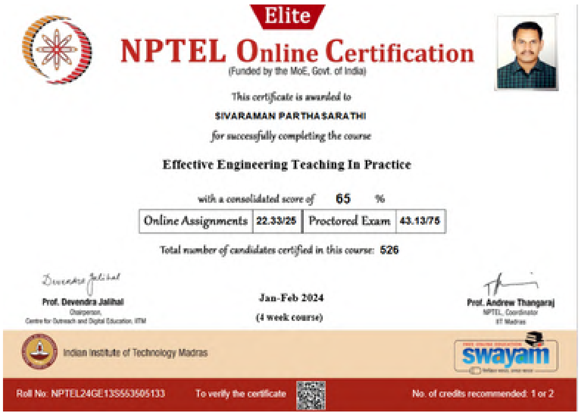
swayam

Roll No: NPTEL24ME11S353504313 To verify the certificate No. of credits recommended: 2 or 3

Mr Vishal M, II B.E., completed a NPTEL course on **Manufacturing Guidelines For Product Design** with **Elite Silver.**

STUDENT ONLINE CERTIFICATION

Mr Sanjay S, II B.E., completed a NPTEL course on **Manufacturing Guidelines for Product Design.**



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SIVARAMAN PARTHASARATHI

for successfully completing the course

Effective Engineering Teaching In Practice

with a consolidated score of 65 %

Online Assignments	22.33/25	Proctored Exam	43.13/75

Total number of candidates certified in this course: 526

Devendra Jalihal
Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2024
(4 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

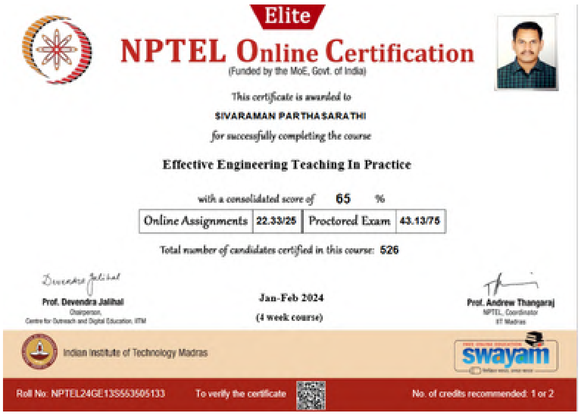
Roll No: NPTEL24GE13S553505133 To verify the certificate No. of credits recommended: 1 or 2

STUDENT ONLINE CERTIFICATION

MECHANICAL

NPTEL COURSE

Mr R Karthikeyan, II B.E., completed a NPTEL course on **Manufacturing Guidelines for Product Design**.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SIVARAMAN PARTHASARATHI

for successfully completing the course

Effective Engineering Teaching In Practice

with a consolidated score of 65 %

Online Assignments	22.33/25	Proctored Exam	43.13/75

Total number of candidates certified in this course: 526

Devendra Jalihal
Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2024
(4 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL24GE13S553505133 To verify the certificate No. of credits recommended: 1 or 2

STUDENT ONLINE CERTIFICATION

COIMBATORE INSTITUTE OF TECHNOLOGY
TORQUE TITANS

Mr Dhesihan A, Mr Dharshan S, Mr Viswa M and Mr Muthukrishnan D, II B.E., attended a **paper presentation** organised by Coimbatore Institute of Technology, Coimbatore.

STUDENTS PARTICIPATION

MECHANICAL

Sri Krishna College of Technology **organised an International Conference** on **Sustainable and Management (ICSIEM – 2024).**

Chief Guest:
Mr Ahamed Zubair,
Manager,
PPP Bid,
Jeddah,
Saudi Arabia.
&
Dr Nithyanandan Devaraaj,
CEO/Managing Director,
DSIF(FLS),
Innovation and Technology Division.

Sri Krishna College of Technology
Hearty
INTERNATIONAL
RENCE ON

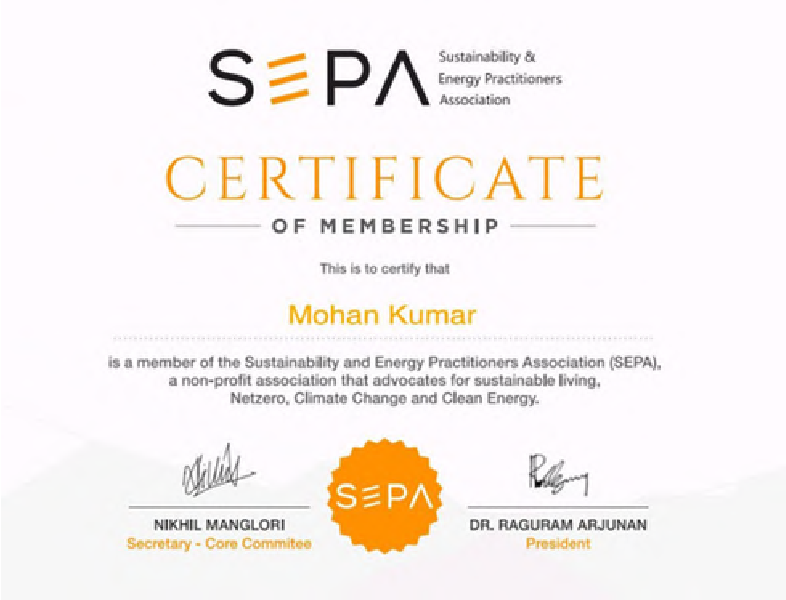
EVENT ORGANIZED

SCHOOL OF MANAGEMENT

R V Mohankumar, II MBA have been selected as a member of "**Sustainability and Energy Practitioners Association**", a renowned organisation connecting industries and Research institutes around the globe on the focus on Sustainability and Climate Change.

The organisation organises seminars, workshops and conclave on the focus on SDG relating to the UN charter (United Nations Framework Convention on Climate Change) and Paris Accord (Limiting the global temperature raise within 1.5 C). They are a nexus of 1000+ Companies and accelerators around the globe and works on agendas like Decarbonisation, energy efficiency low-carbon mobility etc.

He is honoured to be a part of the organisation and spearhead on SDG-13 (Climate Change).



SEPA Sustainability & Energy Practitioners Association

CERTIFICATE

OF MEMBERSHIP

This is to certify that

Mohan Kumar

is a member of the Sustainability and Energy Practitioners Association (SEPA), a non-profit association that advocates for sustainable living, Netzero, Climate Change and Clean Energy.

NIKHIL MANGLORI
Secretary - Core Commitee

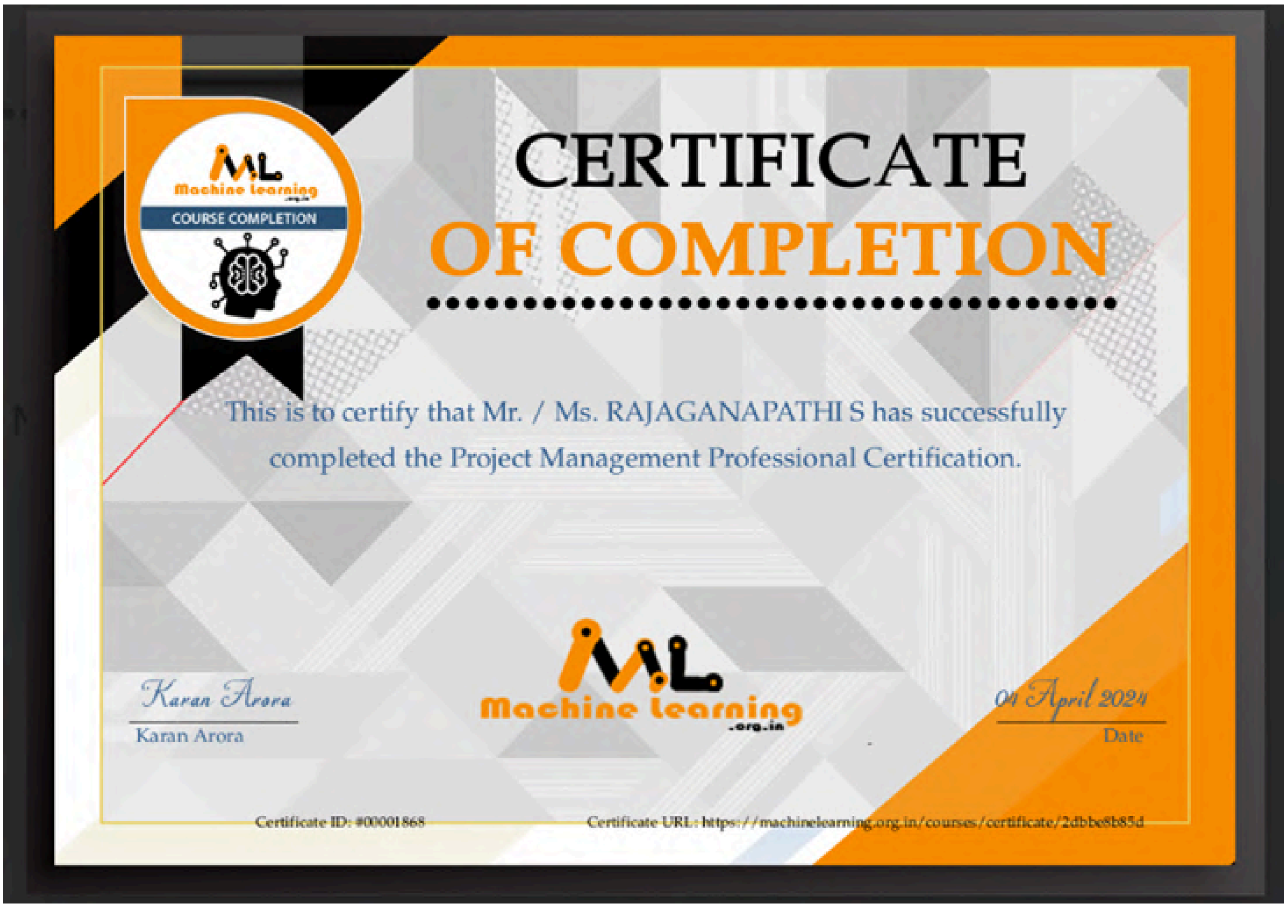
SEPA

DR. RAGURAM ARJUNAN
President

STUDENT ACHIEVEMENT

SCHOOL OF MANAGEMENT

Mr Rajaganapathi S, II MBA, completed a Project Management Professional Certification on 04.04.2024 through Machine Learning.org.in.



Machine learning .org.in
COURSE COMPLETION

CERTIFICATE
OF COMPLETION

This is to certify that Mr. / Ms. RAJAGANAPATHI S has successfully completed the Project Management Professional Certification.

Machine learning .org.in

Karan Arora
Karan Arora

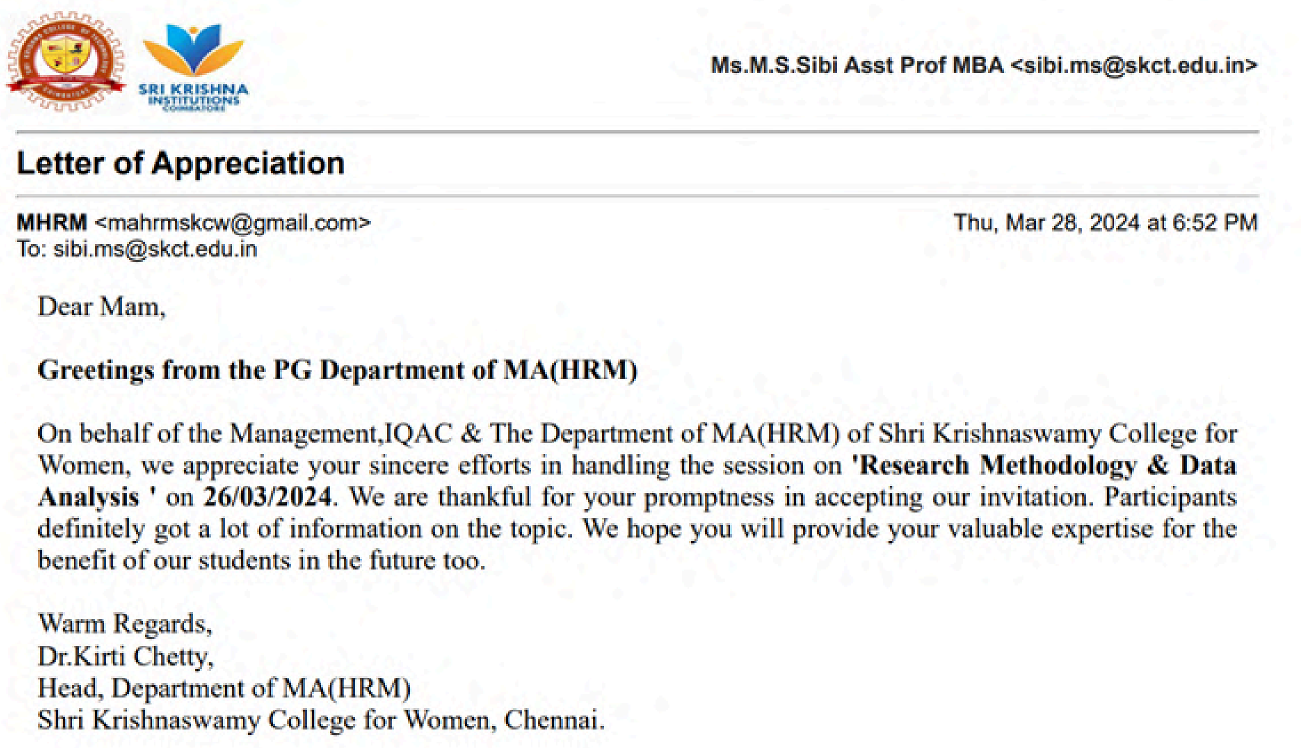
04 April 2024
Date

Certificate ID: #00001868
Certificate URL: https://machinelearning.org.in/courses/certificate/2dbbe8b85d

STUDENT ONLINE CERTIFICATION

SCHOOL OF MANAGEMENT

Dr M S Sibi, Assistant Professor, SoM, served as **a Resource Person for** a **Webinar on Research methodology & Data Analysis** organised by Shrikrishnaswamy College for Women on 26.03.2024.



Ms.M.S.Sibi Asst Prof MBA <sibi.ms@skct.edu.in>

Letter of Appreciation

MHRM <mahrmskcw@gmail.com>
To: sibi.ms@skct.edu.in

Thu, Mar 28, 2024 at 6:52 PM

Dear Mam,

Greetings from the PG Department of MA(HRM)

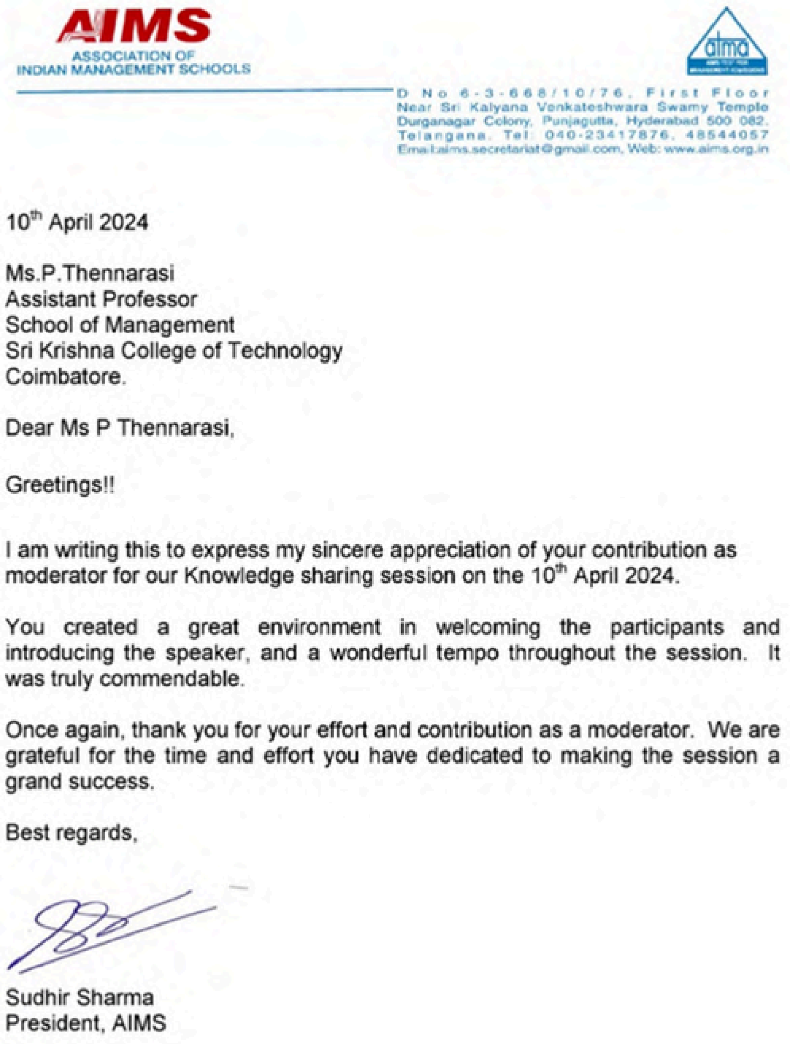
On behalf of the Management,IQAC & The Department of MA(HRM) of Shri Krishnaswamy College for Women, we appreciate your sincere efforts in handling the session on **'Research Methodology & Data Analysis '** on **26/03/2024**. We are thankful for your promptness in accepting our invitation. Participants definitely got a lot of information on the topic. We hope you will provide your valuable expertise for the benefit of our students in the future too.

Warm Regards,
Dr.Kirti Chetty,
Head, Department of MA(HRM)
Shri Krishnaswamy College for Women, Chennai.

FACULTY PARTICIPATION

SCHOOL OF MANAGEMENT

Ms P Thennarasi, Assistant Professor, SOM, SKCT, served as a **mod moder** in a session on Sustainable Management Education organised by AIMS on 10.04.2024.



AIMS
ASSOCIATION OF
INDIAN MANAGEMENT SCHOOLS

D No 6-3-668/10/76, First Floor
Near Sri Kalyana Venkateshwara Swamy Temple
Durganagar Colony, Punjagutta, Hyderabad 500 082.
Telangana. Tel: 040-23417876, 48544057
Email:aims.secretariat@gmail.com, Web: www.aims.org.in

10th April 2024

Ms.P.Thennarasi
Assistant Professor
School of Management
Sri Krishna College of Technology
Coimbatore.

Dear Ms P Thennarasi,

Greetings!!

I am writing this to express my sincere appreciation of your contribution as moderator for our Knowledge sharing session on the 10th April 2024.

You created a great environment in welcoming the participants and introducing the speaker, and a wonderful tempo throughout the session. It was truly commendable.

Once again, thank you for your effort and contribution as a moderator. We are grateful for the time and effort you have dedicated to making the session a grand success.

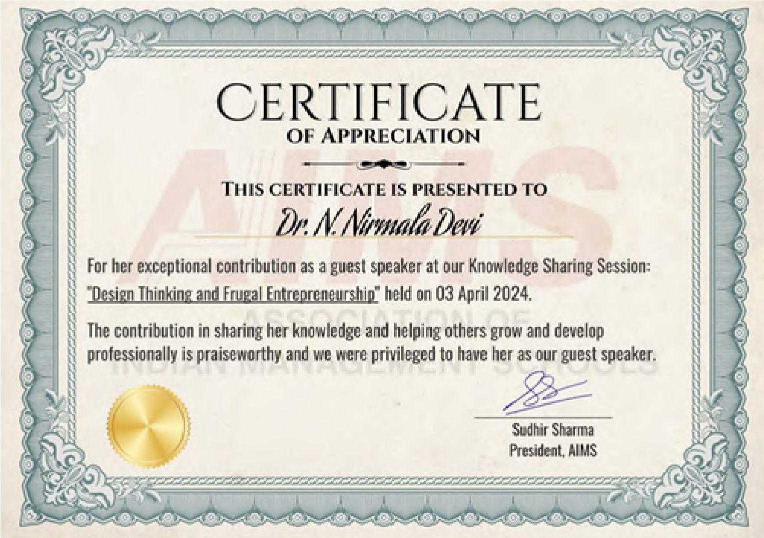
Best regards,

Sudhir Sharma
President, AIMS

FACULTY PARTICIPATION

SCHOOL OF MANAGEMENT

Dr N Nirmala Devi, Professor and Head, chaired and served as a **speaker in AIMS Knowledge sharing session** on "Design Thinking and Frugal Entrepreneurship.” **Dr P Shanmugha Priya**, Associate Professor, **served as moderator** throughout the session on 03.04.2024.
More than 80 participants across the nation have attended the session.



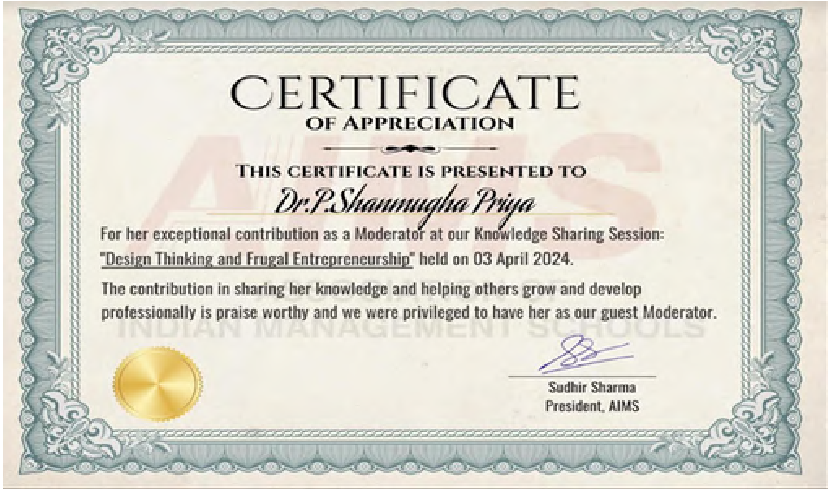
CERTIFICATE
OF APPRECIATION

THIS CERTIFICATE IS PRESENTED TO
Dr. N. Nirmala Devi

For her exceptional contribution as a guest speaker at our Knowledge Sharing Session: "Design Thinking and Frugal Entrepreneurship" held on 03 April 2024.

The contribution in sharing her knowledge and helping others grow and develop professionally is praiseworthy and we were privileged to have her as our guest speaker.

Sudhir Sharma
President, AIMS



CERTIFICATE
OF APPRECIATION

THIS CERTIFICATE IS PRESENTED TO
Dr. P. Shanmugha Priya

For her exceptional contribution as a Moderator at our Knowledge Sharing Session: "Design Thinking and Frugal Entrepreneurship" held on 03 April 2024.

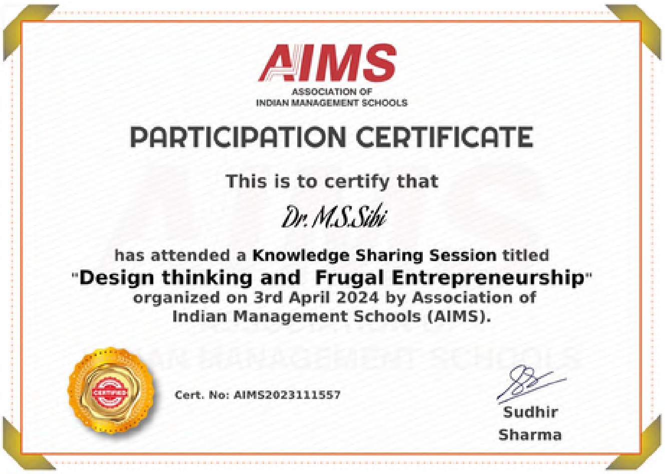
The contribution in sharing her knowledge and helping others grow and develop professionally is praise worthy and we were privileged to have her as our guest Moderator.

Sudhir Sharma
President, AIMS

FACULTY PARTICIPATIONS

SCHOOL OF MANAGEMENT

Dr M S Sibi, Assistant Professor, attended a knowledge sharing session on **Design Thinking and Frugal Entrepreneurship,** organised by Association of Indian Management Schools(AIMS) on 03.04.2024.



AIMS
ASSOCIATION OF INDIAN MANAGEMENT SCHOOLS

PARTICIPATION CERTIFICATE

This is to certify that

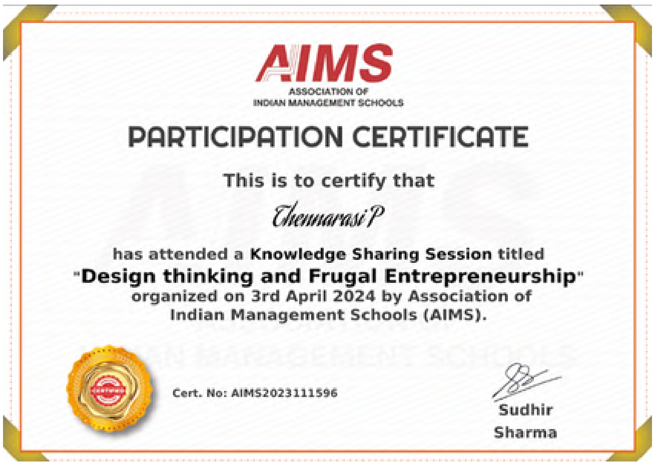
Dr. M.S.Sibi

has attended a **Knowledge Sharing Session** titled
"**Design thinking and Frugal Entrepreneurship**"
organized on 3rd April 2024 by Association of
Indian Management Schools (AIMS).

Cert. No: AIMS2023111557

Sudhir Sharma

Ms P Tennarasi attended a knowledge sharing session on **Design Thinking and Frugal Entrepreneurship** organised by Association of Indian Management Schools(AIMS) on 03.04.2024.



AIMS
ASSOCIATION OF INDIAN MANAGEMENT SCHOOLS

PARTICIPATION CERTIFICATE

This is to certify that

Thennarasi P

has attended a **Knowledge Sharing Session** titled
"**Design thinking and Frugal Entrepreneurship**"
organized on 3rd April 2024 by Association of
Indian Management Schools (AIMS).

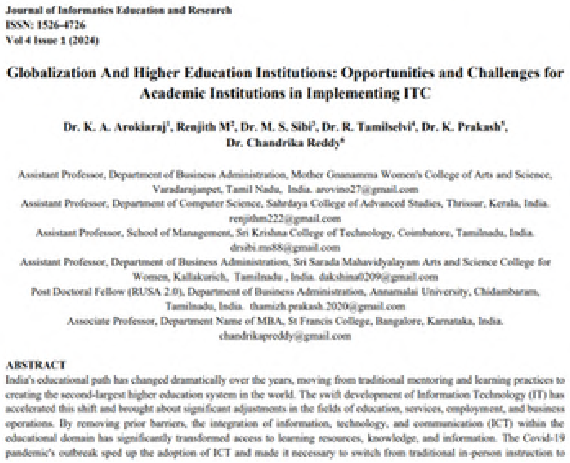
Cert. No: AIMS2023111596

Sudhir Sharma

FACULTY PARTICIPATIONS

SCHOOL OF MANAGEMENT

Dr M S Sibi, Assistant Professor, published a research article titled **Globalization and Higher Education Institutional Opportunities and Challenges** for Academic Institution in Implementing ITC in a Journal of Informatics Education and Research - ABDC Journal- ISSN 1526-4726.



Journal of Informatics Education and Research
ISSN: 1526-4726
Vol 4 Issue 1 (2024)

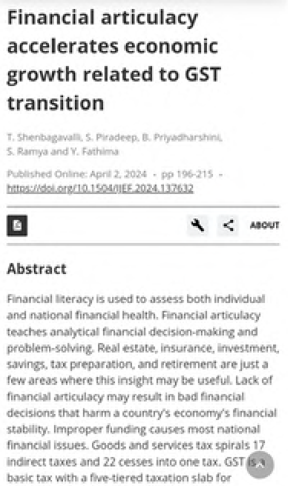
Globalization And Higher Education Institutions: Opportunities and Challenges for Academic Institutions in Implementing ITC

Dr. K. A. Arokiaraj[1], Renjith M[2], Dr. M. S. Sibi[3], Dr. R. Tamilselvi[4], Dr. K. Prakash[5],
Dr. Chandrika Reddy[6]

Assistant Professor, Department of Business Administration, Mother Gnanamma Women's College of Arts and Science, Varadarajanpet, Tamil Nadu, India. arovino27@gmail.com
Assistant Professor, Department of Computer Science, Sahrdaya College of Advanced Studies, Thrissur, Kerala, India. renjithm222@gmail.com
Assistant Professor, School of Management, Sri Krishna College of Technology, Coimbatore, Tamilnadu, India. drsibi.ms88@gmail.com
Assistant Professor, Department of Business Administration, Sri Sarada Mahavidyalayam Arts and Science College for Women, Kallakurich, Tamilnadu , India. dakshina0209@gmail.com
Post Doctoral Fellow (RUSA 2.0), Department of Business Administration, Annamalai University, Chidambaram, Tamilnadu, India. thamizh.prakash.2020@gmail.com
Associate Professor, Department Name of MBA, St Francis College, Bangalore, Karnataka, India. chandrikapreddy@gmail.com

ABSTRACT
India's educational path has changed dramatically over the years, moving from traditional mentoring and learning practices to creating the second-largest higher education system in the world. The swift development of Information Technology (IT) has accelerated this shift and brought about significant adjustments in the fields of education, services, employment, and business operations. By removing prior barriers, the integration of information, technology, and communication (ICT) within the educational domain has significantly transformed access to learning resources, knowledge, and information. The Covid-19 pandemic's outbreak sped up the adoption of ICT and made it necessary to switch from traditional in-person instruction to

Dr S Piradeep, Assistant Professor, published a research article entitled **"Financial articulacy accelerates economic growth related to GST transition"** in an International Journal of Electronic Finance - Scopus Indexed and Listed in ABDC Journal.



Financial articulacy accelerates economic growth related to GST transition

T. Shenbagavalli, S. Piradeep, B. Priyadharshini, S. Ramya and Y. Fathima

Published Online: April 2, 2024 - pp 196-215 - https://doi.org/10.1504/IJEF.2024.137632

Abstract

Financial literacy is used to assess both individual and national financial health. Financial articulacy teaches analytical financial decision-making and problem-solving. Real estate, insurance, investment, savings, tax preparation, and retirement are just a few areas where this insight may be useful. Lack of financial articulacy may result in bad financial decisions that harm a country's economy's financial stability. Improper funding causes most national financial issues. Goods and services tax spirals 17 indirect taxes and 22 cesses into one tax. GST is a basic tax with a five-tiered taxation slab for

FACULTY PUBLICATIONS

SCHOOL OF MANAGEMENT

The School of Management **celebrated Ethnic Day** on 06.04.2024.

EVENT ORGANIZED

SCHOOL OF MANAGEMENT

The School of Management **conducted farewell** for the Students II MBA students on 06.04.2024.

FAREWELL
MBA 2022 - 2024 BATCH
STUDENTS

EVENT ORGANIZED

SCHOOL OF MANAGEMENT

The Students of the Batch 2022-2024 received a placement offer in **Image Infotainment Limited** for the position of **Executive - Program Development.**
Salary: 2,92,200
After probation: 315000-375000 PA

Ms Kavya L

Mr Bikash Babu

Mr Kishore S

Ms Kaviya B

Ms Harsha R

Mr Gunal K

Mr Dinesh K P

Ms Devadharshini

PLACEMENTS

SRI KRISHNA INSTITUTIONS COIMBATORE

SKCT supports the Sustainable Development Goals

Band 101-150
Engineering 2023

NATIONAL BOARD of ACCREDITATION
CSE | CIVIL | EEE | ECE
MECH | IT

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

CHIEF EDITOR

Dr M G Sumithra
PRINCIPAL

DESIGN & CONTENT EDITORS

Mr M K Prabhu
Assistant Professor
Mechanical Engineering

Ms B Pavithra
Assistant Professor
English

STUDENT EDITORS

Mr T Lokesh
III AI&DS

Ms V Madhumathi
III EEE

Mr R Yashwanthraja
II Mech

Contact Us

Visit Our Website
skct.edu.in

/SKCTOfficial

VOL 24 - ISSUE 4