



# 11th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2023

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. S.Suganya from Paavai Engineering College has presented a paper titled A MULTI-OUTPUT DC TO DC CONVERTER FOR ELECTRIC CAR APPLICATION in the "11th International Conference on Contemporary Engineering and Technology 2023" held on 1 & 2<sup>nd</sup> May 2023.*

Dr. Akhatov Akmal Rustamovich

Dr. Christo Ananth

Dr. P. Aravinthan

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
MAMBAKKAM DIST.  
Prof. A. Krishnamoorthy,  
Administration

K. Janani,  
Chairman



ENGINEER TO EXCEL

# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

**INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE,  
HUMANITIES AND TECHNOLOGY (ICASHT – 2023)**

## CERTIFICATE

This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. ✓ Dr. G. Balaji, HOD, EEE

of Paavai Engineering College participated / presented a research paper entitled "Alerting Sensor device using in Transmission Line"

in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105, Tamil-Nadu, India, during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

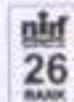
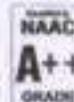
  
Convener



  
PRINCIPAL

  
Principal  
Dr. B. Ramesh

PAAVAI ENGINEERING COLLEGE  
SRI L. RACHAL Post, NAMAKKAL Dist.





ENGINEER TO FACE

# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

**INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE,  
HUMANITIES AND TECHNOLOGY (ICASHT - 2023)**

## CERTIFICATE

This is to certify that

Prof./Dr./Mr./Mrs./Ms. Ramachandran, S. Department of EEE

of Paavai Engineering College participated / presented a research paper entitled "Analyses and performance of Static Compensated Voltage and Frequency modulation in the Wind energy system using Solar PV Interface & ZSI impedance Source Network"

in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105,

Tamil Nadu, India, during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

*[Signature]*  
Coordinator



PRINCIPAL  
PAAVAI ENGINEERING COLLEGE,  
M.T. PACHAL Post, NAMAKKAL Dist.

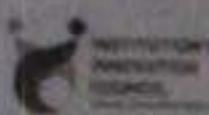
*[Signature]*  
Principal  
Dr. B. Ramesh



NARS  
A++  
GRADE

mb  
26  
GRADE

AIIN  
25  
GRADE



Ministry of Education  
GOVERNMENT OF INDIA



SUSTAINABLE  
DEVELOPMENT  
GOALS



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL  
Ministry of Education, India

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**R.SATHEESHKUMAR**

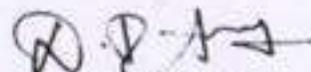
Paavai Engineering College

Presented a paper entitled

"Ant Colony Optimization Tuned Pid Controller For Load Frequency Control In Nuclear Power System"

In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu

on 17<sup>th</sup> March 2023

  
Convener

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
Principal PACHAL Post, NAMAKKAL Dist

  
Director - Admin



# HINDUSTHAN INSTITUTE OF TECHNOLOGY Coimbatore - 641032

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai,  
Accredited with 'A' Grade by NAAC & Accredited by NBA)



## DEPARTMENT OF MECHANICAL ENGINEERING

&  
Indian Society for Technical Education

This is to certify that Mr/Ms/Dr ARULKUMAR.C  
of Paavai Engineering College has presented the technical  
paper entitled Automated Shopping Cart  
in the ISTE sponsored two days National Level  
Conference on "Emerging Trends in Engineering Science & Technology "ETEST-23"  
during 19<sup>th</sup>- 20<sup>th</sup> April 2023

**Prof.M.Viswanath**  
Co-ordinator

**Dr.K.M.Arunraja**  
Organizing Secretary  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH.7, PACHAL Post, NAMAKKAL Dist.



**Dr.S.R.RajaBalayanan**  
Convener & Head



# Certificate of Participation

## DEIVAMANI G

has presented a paper on topic ..... **CHARGING CONTROLLER FOR HYBRID SCOOTER** .....

.....in 2nd International Conference on Advancements in Automotive Technology (ICAAT) 2023 conducted by the department of Automobile Engineering at Bannari Amman Institute of Technology held on 5th & 6th April 2023.

Dr M BharathiRaja  
HOD - Automobile Engineering

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
IN-7, PACHAL Post, NAMAKKAL Dis

Dr C Palanisamy  
Principal



# MUTHAYAMMAL COLLEGE OF ENGINEERING

Rasipuram - 637 408. Namakkal Dt., Tamilnadu, India.



**ICETS'23**

## CERTIFICATE OF PARTICIPATION

This is to Certify that  
**G.Umamaheswari**  
Paavai Engineering College, Namakkal

has presented a paper titled

**Design and Analysis of BFOA-Optimized Fuzzy PI/PID Controller for AGC of Multi-Area Traditional/Restructured Electrical Power Systems**

in  
**7<sup>th</sup> INTERNATIONAL CONFERENCE ON ENGINEERING, TECHNOLOGY AND SCIENCE**  
at Muthayammal College of Engineering, Rasipuram, Namakkal Dt., Tamilnadu  
on 31<sup>st</sup> March 2023

ICETS'23



*G. Anand*  
Chairperson

*[Signature]*  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
PACHAL Post. NAMAKKAL Dist.  
Principal



ISSN 23196319



# MUTHAYAMMAL COLLEGE OF ENGINEERING

Rasipuram - 637 408. Namakkal Dt., Tamilnadu, India.



ICETS'23

## CERTIFICATE OF PARTICIPATION

This is to Certify that  
**R.Satheeshkumar**  
**Paavai Engineering College, Namakkal**

has presented a paper titled

**Design and Analysis of BFOA-Optimized Fuzzy PI/PID Controller for  
AGC of Multi-Area Traditional/Restructured Electrical Power Systems**

in

**7<sup>th</sup> INTERNATIONAL CONFERENCE ON ENGINEERING, TECHNOLOGY AND SCIENCE**

at Muthayammal College of Engineering, Rasipuram, Namakkal Dt., Tamilnadu

on 31<sup>st</sup> March 2023



*G. Arul*  
Chairperson

*J. M.*  
Convener

*P. S.*  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
JH-7, PACHAL Post, NAMAKKAL Dt.  
Principal



ISSN 23196319

ICETS'23



ENGINEER TO EXCEL

# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

**INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE,  
HUMANITIES AND TECHNOLOGY (ICASHT - 2023)**

## CERTIFICATE

This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. .... *V. Kumara Krishnan, Assistant Professor, EEE*  
of..... *Paavai Engineering College*..... participated / presented a research paper entitled"  
*Diverging of birds around Transmission Lines*.....

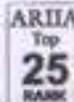
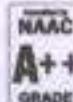
.....  
in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the  
Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105,  
Tamil- Nadu, India. during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

*[Signature]*  
Convener



*[Signature]*  
**PRINCIPAL**  
**PAAVAI ENGINEERING COLLEGE**  
11.7 PACHAI Post, NAMAKKAL Dist.

*[Signature]*  
Principal  
**Dr. B. Ramesh**



MoE's  
INNOVATION CELL  
(GOVERNMENT OF INDIA)



SUSTAINABLE  
DEVELOPMENT  
GOALS



ENGINEER TO EXCEL

# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

## INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE, HUMANITIES AND TECHNOLOGY (ICASHT – 2023)

### CERTIFICATE

This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. Balaji G, Department of EEE

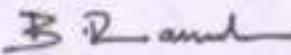
of Paavai Engineering College participated / presented a research paper entitled "Effective Evaluation Technique for using photovoltaic System based on a Fly back Converter to improve Power Quality"

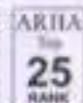
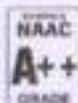
in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105, Tamil Nadu, India, during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

  
Convener



  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
14.7, PACHAL Post, NAMAKKAL Dis

  
Principal  
Dr. B. Ramesh





**ICDAI**

International Conference  
on Data Analytics and  
Insights 2023



# Certificate of Paper Presenter

This Acknowledges that

SATHEESHKUMAR R

has been a paper presenter in the **International Conference on Data Analytics and Insights (ICDAI 2023)** organized by **Techno International New Town** from  
11th- 13th May 2023

Dr. Papiya Debnath  
General Co-chair, ICDAI 2023  
Associate Professor, BSH (Mathematics)  
Techno International New Town

Dr. R. T. Goswami  
General Chair, ICDAI 2023  
Director  
Techno International New Town

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
114.7, PACHAL Post, NAMAKKAL Dist



ENGINEER TO EXCEL

# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

**INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE,  
HUMANITIES AND TECHNOLOGY (ICASHT - 2023)**

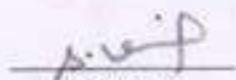
## CERTIFICATE

This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. Uma Maheshwari G. Department of EEE

of Paavai Engineering College participated / presented a research paper entitled "Frequency Stability Analysis of Thermal Power System with different Steam Configurations"

in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105, Tamil Nadu, India. during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

  
Convener



  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
J.M.7 PACHAL Post, NAMAKKAL DIST.  
Principal  
Dr. B. Ramesh



SUSTAINABLE DEVELOPMENT GOALS



# MUTHAYAMMAL COLLEGE OF ENGINEERING

Rasipuram - 637 408. Namakkal Dt., Tamilnadu, India.



ICETS'23

## CERTIFICATE OF PARTICIPATION

This is to Certify that

**M.Raja**

**Paavai Engineering College, Namakkal**

has presented a paper titled

**Hybrid Based Climatology Lab for Airports**

in

**7<sup>th</sup> INTERNATIONAL CONFERENCE ON ENGINEERING, TECHNOLOGY AND SCIENCE**

at Muthayammal College of Engineering, Rasipuram, Namakkal Dt., Tamilnadu

on 31<sup>st</sup> March 2023



*C. Ouf.*  
Chairperson

*[Signature]*  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
JIN-7, PACHAL Post, NAMAKKAL Dt.

Principal



ISSN 23196319

ICETS'23



# MUTHAYAMMAL COLLEGE OF ENGINEERING

Rasipuram - 637 408. Namakkal Dt., Tamilnadu, India.



ICETS'23

## CERTIFICATE OF PARTICIPATION

This is to Certify that

**R.Muthukumar**

**Paavai Engineering College, Namakkal**

has presented a paper titled

**Hybrid Based Climatology Lab for Airports**

in

**7<sup>th</sup> INTERNATIONAL CONFERENCE ON ENGINEERING, TECHNOLOGY AND SCIENCE**

at Muthayammal College of Engineering, Rasipuram, Namakkal Dt., Tamilnadu

on 31<sup>st</sup> March 2023



*G. Chel.*  
Chairperson

*J. J.*  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
Coppin PACHAL Post, NAMAKKAL Dist.  
Principal



ISSN 23194319

ICETS'23



# SAMP

Society for Aerospace and Mechanical Professionals  
(Registered under the Society Act 134/2014)  
Chennai - 603 103

# & SICEE

Society for Information, Communication & Electrical Engineers

4<sup>th</sup> International Conference on  
**Recent Innovations in Engineering and Technology**  
(ICRIET 2023)

## CERTIFICATE OF PRESENTATION

This certificate is proudly Presented to

Mr./Ms./Dr. BALAJI.G., Dept of EEE., Paavai Engineering college, Namakkal Dt.  
for presenting paper entitled,

INTEGRATION OF LARGE-SCALE RENEWABLE ENERGY SOURCES  
INTO A LOW-INERTIA POWER GRID WITH A SINGLE SYNCHRONOUS  
CONTROLLER

in the 4<sup>th</sup> International Conference on **Recent Innovations in  
Engineering and Technology** (ICRIET 2023) held on 5<sup>th</sup> & 6<sup>th</sup> April 2023.

CONFERENCE CHAIR

ORGANISING SECRETARY

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
1847 PACHAL POST, NAMAKKAL DT.

VICE PRESIDENT

PRESIDENT

First International Conference on  
Renewable and Sustainable Energy  
Technologies (RESET - 2023)



**BANNARI AMMAN**  
INSTITUTE OF TECHNOLOGY  
An Autonomous Institution Affiliated to Anna University,  
Approved by AICTE, Accredited by NAAC with 'A' Grade

### *Certificate of Participation*

This certificate is presented to **Dr.S.Ramachandran** of **PAAVAI ENGINEERING COLLEGE** Paper ID: RESET 2023126 for presenting the paper entitled "Intelligent energy-based smart street light with wireless technology" in the International Conference on Renewable and Sustainable Energy Technologies (RESET - 2023) organized by the Department of Electrical and Electronics Engineering, during 22 -23 March 2023.



*KT Maheswari* & *S. Sathish*  
Organizing Secretaries

Dr.K.T Maheswari      Mr.S.Sathishkumar  
Assistant Professor Level III,EEE

*P.S.*  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
114-7, PACHAL Post, NAMAKKAL Dis:

*P.S.*  
Convener  
Dr.P.Sivaraman  
Professor/Head,EEE



Springer



**MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND  
STUDIES**

**FACULTY OF ENGINEERING AND TECHNOLOGY  
THE 2<sup>nd</sup> INTERNATIONAL CONFERENCE ON RENEWABLE  
TECHNOLOGIES IN ENGINEERING**

**(ICRTE-22)**

**7<sup>th</sup> - 8<sup>th</sup> October-2022**

**CERTIFICATE OF PRESENTATION**

This is to certify that **Dr./Mr./Ms. Boopathi D** from **Paavai Engineering College,** Tamilnadu has presented a paper titled **Investigation of a Microgrid Power System for frequency regulation by implementing Ant Colony Optimization Technique optimized Secondary Controller in the Second International Conference on Renewable Technologies in Engineering (ICRTE-22)** organized by **Manav Rachna International Institute of Research and Studies, Faridabad** on **7<sup>th</sup> and 8<sup>th</sup> October 2022.**

**Dr. Anita Khosla**

**Conference Chair**

**Dr. Leena G.**

**HOD, EEE**

**PRINCIPAL**

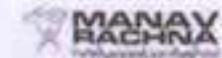
**PAAVAI ENGINEERING COLLEGE  
NH.7, PACHAL Post, NAMAKKAL Dist**

**Dr. Pardeep Kumar**

**General Chair**



Springer



**MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND  
STUDIES**

**FACULTY OF ENGINEERING AND TECHNOLOGY  
THE 2<sup>nd</sup> INTERNATIONAL CONFERENCE ON RENEWABLE  
TECHNOLOGIES IN ENGINEERING**

**(ICRTE-22)**

**7<sup>th</sup> - 8<sup>th</sup> October-2022**

**CERTIFICATE OF PRESENTATION**

**This is to certify that Dr./Mr./Ms. Jagatheesan K from Paavai Engineering College, Tamilnadu has presented a paper titled Investigation of a Microgrid Power System for frequency regulation by implementing Ant Colony Optimization Technique optimized Secondary Controller in the Second International Conference on Renewable Technologies in Engineering (ICRTE-22) organized by Manav Rachna International Institute of Research and Studies, Faridabad on 7<sup>th</sup> and 8<sup>th</sup> October 2022.**

**Dr. Anita Khosla**

**Conference Chair**

**Dr. Leena G.**

**HOD, EET**

**PAAVAI ENGINEERING COLLEGE  
1147, PACHAL Post, NAMAKKAL Dist**

**Dr. Pardeep Kumar**

**General Chair**

**MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND  
STUDIES**

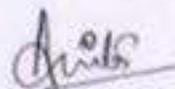
**FACULTY OF ENGINEERING AND TECHNOLOGY  
THE 2<sup>nd</sup> INTERNATIONAL CONFERENCE ON RENEWABLE  
TECHNOLOGIES IN ENGINEERING**

**(ICRTE-22)**

**7<sup>th</sup> - 8<sup>th</sup> October-2022**

**CERTIFICATE OF PRESENTATION**

**This is to certify that Dr./Mr./Ms. Satheeshkumar R from Paavai Engineering College, Tamilnadu has presented a paper titled Investigation of a Microgrid Power System for frequency regulation by implementing Ant Colony Optimization Technique optimized Secondary Controller in the Second International Conference on Renewable Technologies in Engineering (ICRTE-22) organized by Manav Rachna International Institute of Research and Studies, Faridabad on 7<sup>th</sup> and 8<sup>th</sup> October 2022.**



**Dr. Anita Khosla**

**Conference Chair**



**Dr. Leena G**

**HOD, EEE**



**PRINCIPAL**

**PAVAI ENGINEERING COLLEGE**

**14-7 PACHAL Post, NAMAKKAL Dist.**



**Dr. Pardeep Kumar**

**General Chair**



# HINDUSTHAN INSTITUTE OF TECHNOLOGY Coimbatore - 641032

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai,  
Accredited with 'A' Grade by NAAC & Accredited by NBA



## DEPARTMENT OF MECHANICAL ENGINEERING

&

## Indian Society for Technical Education

This is to certify that Mr/Ms/Dr. JAGATHESAN K  
of Paayai Engineering College has presented the technical  
paper entitled IOT Based Smart Meter For Domestic Commercial  
Application in the ISTE sponsored two days National Level  
Conference on "Emerging Trends in Engineering Science & Technology "ETEST-23"  
during 19<sup>th</sup>- 20<sup>th</sup> April 2023

**Prof.M.Viswanath**  
Co-ordinator

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
184-7, PACHAL Post, NAMANKUL Dis:

**Dr.K.M.Arunraja**  
Organizing Secretary



**Dr.S.R.RajaBalayanan**  
Convener & Head



# HINDUSTHAN INSTITUTE OF TECHNOLOGY Coimbatore - 641032

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai,  
Accredited with 'A' Grade by NAAC & Accredited by NBA



## DEPARTMENT OF MECHANICAL ENGINEERING

&

## Indian Society for Technical Education

This is to certify that Mr/Ms/Dr K.UMARAKRISHNAN.V  
of PAVAI ENGINEERING COLLEGE has presented the technical  
paper entitled MOTORED KAF0 LEG FOR HANDICAPS  
in the **ISTE** sponsored two days National Level  
Conference on "**Emerging Trends in Engineering Science & Technology "ETEST-23"**  
during 19<sup>th</sup> - 20<sup>th</sup> April 2023

**Prof.M.Viswanath**  
Co-ordinator

**Dr.K.M.Arunraja**  
Organizing Secretary

PRINCIPAL

PAVAI ENGINEERING COLLEGE

PAVALI PACHAL Post, NARAYANPET, NARAYANPET Dist.



**Dr.S.R.RajaBalayanan**  
Convener & Head



**VELAMMAL ENGINEERING COLLEGE**  
( An Autonomous Institution )

**NCRTCS'23**

*Certificate of Appreciation*

This is to certify that Dr/Mrs/Mr/Ms. ARULKUMAR.C of EEE from PAVAI ENGINEERING COLLEGE has presented a paper entitled OUTDOOR AIR PURIFIER WITH AIR QUALITY MONITOR in the **NATIONAL CONFERENCE ON RECENT TECHNOLOGIES AND COMPUTING SCIENCES - NCRTCS'23** organized by "Department of Information Technology", Velammal Engineering College on 11<sup>th</sup> April 2023.

C.M. Nalayini K.R. Mohanraj

COORDINATOR  
MRS. C M NALAYINI  
ASST.PROF

COORDINATOR  
MR. MOHANRAJ KR  
ASST.PROF

Sathyabama Jeevaa

COORDINATOR  
MRS. A R SATHYABAMA  
ASST.PROF

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
MICHAL Post, NAMANKA, Dis.  
CONVENOR  
DR. JEEVAA KATIRAVAN  
HOD

S. Satish Kumar

PRINCIPAL  
DR. S SATISH KUMAR



# SAMP

Society for Aerospace and Mechanical Professionals

(Registered under the Society Act 134/2014)

Chennai - 603 103

&

# SICEE

Society for Information, Communication & Electrical Engineers

4<sup>th</sup> International Conference on

**Recent Innovations in Engineering and Technology**

(ICRIET 2023)

## CERTIFICATE OF PRESENTATION

This certificate is proudly Presented to

Mr./Ms./Dr. ARUL KUMAR.C., Dept of EEE, Paavai Engineering college, Namakkal  
for presenting paper entitled, DE,

POWER QUALITY IMPROVEMENT OF A SINGLE-PHASE GRID-  
CONNECTED PV SYSTEM WITH ARTIFICIAL NEURAL  
NETWORK

in the 4<sup>th</sup> International Conference on **Recent Innovations in  
Engineering and Technology** (ICRIET 2023) held on 5<sup>th</sup> & 6<sup>th</sup> April 2023.

CONFERENCE CHAIR

ORGANISING SECRETARY

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
M.7 PACHAL Post, NAMAKKAL DT.

VICE PRESIDENT

PRESIDENT



# MUTHAYAMMAL COLLEGE OF ENGINEERING

Rasipuram - 637 408. Namakkal Dt., Tamilnadu, India.



**ICETS'23**

## CERTIFICATE OF PARTICIPATION

This is to Certify that  
**A.Rathinam**  
Paavai Engineering College, Namakkal

has presented a paper titled

**Single Core Cable Bonding Methodology in Electrical  
(Petrochemical Industries)**

in  
**7<sup>th</sup> INTERNATIONAL CONFERENCE ON ENGINEERING, TECHNOLOGY AND SCIENCE**  
at Muthayammal College of Engineering, Rasipuram, Namakkal Dt., Tamilnadu  
on 31<sup>st</sup> March 2023

ICETS'23



*G. Anand*  
Chairperson

*J. Anand*  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
PACHAL Post, NAMAKKAL Dt.  
Principal



ISSN 23196319



# HINDUSTHAN INSTITUTE OF TECHNOLOGY Coimbatore - 641032

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai,  
Accredited with 'A' Grade by NAAC & Accredited by NBA)



## DEPARTMENT OF MECHANICAL ENGINEERING

&

## Indian Society for Technical Education

This is to certify that Mr/Ms/Dr RATHINAM.A  
of PAAVAI ENGINEERING COLLEGE has presented the technical  
paper entitled SMART FAULT LOCATION FOR SMART GRID  
in the ISTE sponsored two days National Level  
Conference on "Emerging Trends in Engineering Science & Technology "ETEST-23"  
during 19<sup>th</sup>- 20<sup>th</sup> April 2023

**Prof.M.Viswanath**  
Co-ordinator

**Dr.K.M.Arunraja**  
Organizing Secretary

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
114.7 PACHAL Post, NAMAKKAL Dist.



**Dr.S.R.RajaBalayanan**  
Convener & Head

Advancement In Power and Energy Systems towards Sustainable and Resilient Energy Supply

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Wan Amir Azrin Wan Shuhaimi; Kanendra Naidu; Jagatheesan Kaliannan; Zulkiffli Abdul Hamid; Hasmaini Mohamad**

with paper entitled

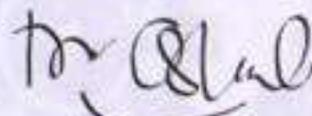
**VPP Integration with Optimized LFC for Generator Fault in Interconnected Thermal Power System**

has participated in

**2022 IEEE International Conference on Power and Energy (PECon2022)**

held on

**5 - 6 December 2022**



**Nur Ashida Salim, PhD**  
General Chair



**PRINCIPAL**  
PAAVAI ENGINEERING COLLEGE  
114-7, PACHAL Post, NAMAKKAL Dist.

Organized by:



Sponsored by:



Supported by:





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**G BALAJI**

for successfully completing the course

## Effective Engineering Teaching in Practice

with a consolidated score of **57** %

Online Assignments	21.5/25	Proctored Exam	35.24/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **369**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

Jan-Feb 2023

(4 week course)

*[Signature]*  
**PRINCIPAL**  
PAAVAI ENGINEERING COLLEGE  
124.7 PACHAL Post, NAMAKKAL Dist

*[Signature]*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23GE03S35540710

To validate 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

**ARULKUMAR C**

for successfully completing the course



## Effective Engineering Teaching in Practice

with a consolidated score of **81** %

Online Assignments	21/25	Proctored Exam	59.51/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: **369**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

Jan-Feb 2023

(4 week course)

*Principal*  
**PRINCIPAL**  
 PAAVAI ENGINEERING COLLEGE  
 NH-7, PACHAL Post, NAMANKAL Dis.

*Andrew Thangaraj*

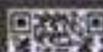
**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IT Madras



Indian Institute of Technology Madras





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**STHIRUNAVUKKARASU**  
for successfully completing the course

## Effective Engineering Teaching in Practice

with a consolidated score of **62** %

Online Assignments	21.5/25	Proctored Exam	40.3/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: **369**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

Jan-Feb 2023

(4 week course)

*[Signature]*  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
114.7. PACHAL Post. NAMAKKAL Dist.

*[Signature]*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23GE03S45260516

To validate the certificate



No. of credits recommended: 1 or 2



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**KUMARAKRISHNAN VENKATACHALAM**  
for successfully completing the course

## Effective Engineering Teaching in Practice

with a consolidated score of **58** %

Online Assignments	21.5/25	Proctored Exam	36.26/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **369**

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

Jan-Feb 2023  
(4 week course)

**PRINCIPAL**  
PAAVAI ENGINEERING COLLEGE  
44.7 PACHAL Post, NAMAKKAL Dist.

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23GE03S35260135

To validate 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  
**SATHEESHKUMAR R**  
for successfully completing the course

## Effective Engineering Teaching in Practice

with a consolidated score of **75** %

Online Assignments	21.5/25	Proctored Exam	53.56/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **369**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

Jan-Feb 2023

(4 week course)

*[Signature]*

*[Signature]*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras

PRINCIPAL

PAVAI ENGINEERING COLLEGE  
4th/7 PACHAL Post, NAMAKKAL Dist



Roll No: NPTEL23GE03S4S260365

To validate the certificate



No. of credits recommended: 1 or 2



# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)  
NAAC "A" Grade Accredited Institution 2(f) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Sankaci Main Road, Ezhiyanoregappadi, Salem - 636308, Tamil Nadu



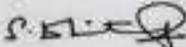
Indian Concrete Institute

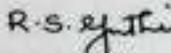
Department of Civil Engineering

## Certificate of Participation

This is to certify that Dr.P.Tamilchelvan of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kaviyaran organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

  
R. A. Shivasakthivadivelan  
Ap-Civil

  
Dr. S. Dhipan Aravind  
Department ICI- Co-ordinator

  
Mrs. R. S. Gandhimathi  
HOD, Civil Engineering

  
Dr. A. Anbuhezian  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
1947, PACIAL Post, NAMAKKAL Dist.

Made for free with Certify'em



# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)  
NAAC "A" Grade Accredited Institution 2(f) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Sankari Main Road, Eerlathur, Salem - 636308, Tamil Nadu



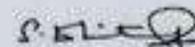
## Department of Civil Engineering

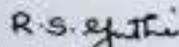
---

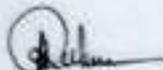
## Certificate of Participation

This is to certify that Dr.A.Vivekanandhini of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kavivarasan organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

  
B. A. Shivasakthiyadivelan  
Ap-Civil

  
Dr. S. Dhipan Aravind  
Department ICI- Co-ordinator.

  
Mrs. R. S. Gandhimathi  
HOD, CIVIL ENGINEERING

  
Dr. A. Anbuhezian  
Principal

Made for free with Certify'em

  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
NH-7 PACHAL POOL, NARAYANAPURAM, SALEM



# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)  
NAAC "A" Grade Accredited Institution 2(F) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Sankari Main Road, Periyasattur, Salem - 636308, Tamil Nadu



Indian Concrete Institute

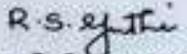
Department of Civil Engineering

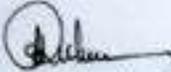
## Certificate of Participation

This is to certify that P.Arthiya of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kaviyaran organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

  
R. A. Shivasakthivadivelan  
Ap-Civil

  
Dr. S. Dhipan Aravind  
Department ICI- Co-ordinator

  
Mrs. R. S. Gandhimathi  
HOD, Civil Engineering

  
Dr. A. Anbuehian  
Principal

  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
NH.7, PACHAL PO, NAMAKKAL DIST

Made for free with Certify'em



# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

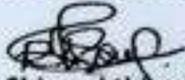
(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)  
NAAC "A" Grade Accredited Institution 2(f) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Sankari Main Road, Periyasottamudi, Salem - 636308, Tamil Nadu



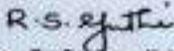
Department of Civil Engineering

## Certificate of Participation

This is to certify that K.S.Subha of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kaviyaran organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

  
R. A. Shivasakthiyadivelan  
Ap-Civil

  
Dr. S. Dhipan Aravind  
Department ICI- Co-ordinator

  
Mrs. R. S. Gandhimathi  
HOD, CIVIL Engineering

  
Dr. A. Anbuhezian  
Principal

PRINCIPAL  
ANNAPOORNA ENGINEERING COLLEGE  
NH-47, PACHAL PO, NARAKKAL DIST.

Made for free with Certify'em



# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi  
NAAC "A" Grade Accredited Institution 2(f) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Sankari Main Road, Erichuruzhagarapadi, Salem - 636308, Tamil Nadu



Indian Concrete Institute

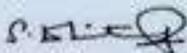
## Department of Civil Engineering

---

## Certificate of Participation

This is to certify that S.Manojkumar of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kaviyaran organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

  
R. A. Shivasakthiyadivelan  
Ap-Civil

  
Dr. S. Dhipan Aravind  
Department ICI-Co-ordinator

  
Mrs. R. S. Gandhimathi  
HOD, Civil Engineering

  
Dr. A. Anbuhezian  
Principal

Made for free with Certify'em

  
PAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, KAMARAJAL Di



# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)  
NAAC "A" Grade Accredited Institution 2(F) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Saakari Main Road, Periyasattur, Salem - 636308, Tamil Nadu



Indian Concrete Institute

Department of Civil Engineering

## Certificate of Participation

This is to certify that Dr.A.Ajaykumar of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kavivarasan organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

R. A. Shivasakthivadivelan  
Ap-Civil

Dr. S. Dhivan Aravind  
Department ICI- Co-ordinator

Mrs. R. S. Gandhimathi  
HOD, CIVIL ENGINEERING

Dr. A. Anbuchejian  
Principal

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
B.L.T. PACHAL POOR, KANAKKAL DIST

Made for free with Certify'em

### International Conference on Advanced Materials and Technologies for Industry 4.0 - "ICAMT 4.0"

(March 23 & 24 - 2023)

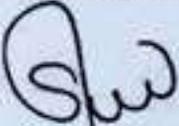


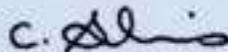
## CERTIFICATE OF PRESENTATION



This is to certify that the author's BHUVANESWARI M

from PAAVAT ENGINEERING COLLEGE has  
presented a paper entitled FABRICATION OF EMITTER INJECTION TOOL FOR DRIP IRRIGATION in the  
International Conference on Advanced Materials and Technologies for Industry 4.0 - "ICAMT 4.0"  
organized by Department Of Mechanical Engineering, Bannari Amman Institute of Technology,  
Sathyamangalam, Erode, held during March 23 & 24 - 2023.

  
Convenor

  
Organising Secretary

  
PRINCIPAL  
PAAVAT ENGINEERING COLLEGE  
VILLAGE, NAMAKKAL DISTRICT

Patron





# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)  
NAAC "A" Grade Accredited Institution 2(f) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Sankaraj Main Road, Pachal, Salem - 636308, Tamil Nadu



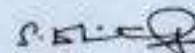
Indian Concrete Institute

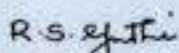
Department of Civil Engineering

## Certificate of Participation

This is to certify that N.Satheswaran of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kavivarasan organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

  
B.A. Shivasakthiyadivelan  
Ap-Civil

  
Dr. S. Dhipan Aravind  
Department ICI- Co-ordinator

  
Mrs. R. S. Gandhimathi  
HOD, Civil Engineering

  
Dr. A. Anbuhezian  
Principal

  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
NH-47, PACHAL P.O., SANKARAJ, SALEM.

Made for free with Certify'em



# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)  
NAAC "A" Grade Accredited Institution 2(F) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Sankarai Main Road, Parvathi Nagar, Salem - 636308, Tamil Nadu



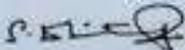
Indian Concrete Institute

Department of Civil Engineering

## Certificate of Participation

This is to certify that A.Subashini of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kaviyaran organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

  
R. A. Shivasakthivadivelan  
Ap-Civil

  
Dr. S. Dhipan Aravind  
Department ICI- Co-ordinator

  
Mrs. R. S. Gandhimathi  
HOD, Civil Engineering

  
Dr. A. Anbuhezian  
Principal

  
PRINCIPAL  
PARVAI ENGINEERING COLLEGE  
NH.7, PACHAL Post, NAMAKKAL Dist.

Made for free with Certify'em



# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)  
NAAC "A" Grade Accredited Institution 2(f) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Saakari Main Road, Echusooraganadi, Salem - 636308, Tamil Nadu



Indian Concrete Institute

Department of Civil Engineering

## Certificate of Participation

This is to certify that A.Meignanamoorthi of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kavivaran organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

R. A. Shivasakthivadivelan  
Ap-Civil

Dr. S. Dhilan Aravind  
Department ICI-Co-ordinator

Mrs. R. S. Gandhimathi  
HOD, Civil Engineering

Dr. A. Anbuhezian  
Principal

Made for free with Certify'em

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
NH-47, SAAKARI MAIN ROAD, ECHUSOORAGANADI, SALEM - 636308, TAMIL NADU



COMMUNITY INSTITUTE OF COMMERCE AND MANAGEMENT STUDIES  
(Affiliated to Bengaluru City University)

#2/ 1,9th Main,9th Cross,2nd Block Jayanagar, Bangalore - 560011

An IQAC Initiative

## CERTIFICATE OF PARTICIPATION

**CICMS**

This is to certify that Mr./Ms.Dr.A.Rubavathy Jayapriya of PAAVAI  
ENGINEERING COLLEGE has participated in the Virtual International  
Level Workshop on "ICT TOOLS FOR EFFECTIVE TEACHING AND  
LEARNING" held on 2<sup>ND</sup> & 3<sup>RD</sup> March 2022.

*Devinder Sharma*

DR. DEVINDER SHARMA  
PROFESSOR, DEPT. OF COMMERCE  
HIMACHAL PRADESH UNIVERSITY  
SHIMLA

*Akshay Rana*

MR. AKSHAY RANA  
ASST. PROFESSOR, HOD, BBA  
KC GROUP OF INSTITUTIONS  
NAWANSHAR, PUNJAB

*Dr. Dharmendra Kumar T.P.*

DR. DHARMENDRA KUMAR T.P  
PRINCIPAL  
PRINCIPAL  
CICMS

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
#103, PACHAL Post, NARAYANKAL Dist



**COMMUNITY INSTITUTE OF COMMERCE AND MANAGEMENT STUDIES**

(Affiliated to Bengaluru City University)

#2/ 1,9th Main,9th Cross,2nd Block Jayanagar, Bangalore - 560011

An IQAC Initiative

# CERTIFICATE OF PARTICIPATION

**CICMS**

This is to certify that Mr./Ms.K.Vishnubharath of PAVAI ENGINEERING COLLEGE has participated in the Virtual International Level Workshop on "ICT TOOLS FOR EFFECTIVE TEACHING AND LEARNING" held on 2<sup>ND</sup> & 3<sup>RD</sup> March 2022.

*Devinder Sharma*

DR. DEVINDER SHARMA  
PROFESSOR, DEPT. OF COMMERCE,  
HIMACHAL PRADESH UNIVERSITY  
SHIMLA

*Akshay Rana*

MR. AKSHAY RANA  
ASST. PROFESSOR, HOD, BBA  
KC GROUP OF INSTITUTIONS  
NAWANSHAR, PUNJAB

*Dr. Dharmendra Kumar T.P.*

DR. DHARMENDRA KUMAR T.P  
PRINCIPAL  
CICMS

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
1847, PACHAL Post, NAJAKKAL Dist.



COMMUNITY INSTITUTE OF COMMERCE AND MANAGEMENT STUDIES  
(Affiliated to Bengaluru City University)

#2/ 1,9th Main,9th Cross,2nd Block Jayanagar, Bangalore - 560011

An IQAC Initiative

## CERTIFICATE OF PARTICIPATION

CICMS

This is to certify that Mr./Ms. P.Sureshkumar of PAVAI

ENGINEERING COLLEGE has participated in the Virtual International

Level Workshop on “ICT TOOLS FOR EFFECTIVE TEACHING AND

EARNING” held on 2<sup>ND</sup> & 3<sup>RD</sup> March 2022.

*Devinder Sharma*

DR. DEVINDER SHARMA  
PROFESSOR, DEPT. OF COMMERCE  
HIMACHAL PRADESH UNIVERSITY  
SHIMLA

*Akshay Rana*

MR. AKSHAY RANA  
ASST. PROFESSOR, HOD, BBA  
KC GROUP OF INSTITUTIONS  
NAWANSHAR, PUNJAB

*Dr. Dharmendra Kumar T.P.*

DR. DHARMENDRA KUMAR T.P.  
PRINCIPAL  
CICMS

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
1947, PACHAL PO, HIMACHAL PRADESH

Made for free with Certify'em



COMMUNITY INSTITUTE OF COMMERCE AND MANAGEMENT STUDIES

(Affiliated to Bengaluru City University)

#2/ 1,9th Main,9th Cross,2nd Block Jayanagar, Bangalore - 560011

An IQAC Initiative

## CERTIFICATE OF PARTICIPATION

CICMS

This is to certify that Mr./Ms. C.Vignesh of PAVAI

ENGINEERING COLLEGE has participated in the Virtual International

Level Workshop on "ICT TOOLS FOR EFFECTIVE TEACHING AND

LEARNING" held on 2<sup>ND</sup> & 3<sup>RD</sup> March 2022.

*Devinder Sharma*

DR. DEVINDER SHARMA  
PROFESSOR, DEPT. OF COMMERCE  
HIMACHAL PRADESH UNIVERSITY  
SHIMLA

*Akshay Rana*

MR. AKSHAY RANA  
ASST. PROFESSOR, HOD. BBA  
KC GROUP OF INSTITUTIONS  
NAWANSHAR, PUNJAB

*Dr. Dharmendra Kumar T.P.*

DR. DHARMENDRA KUMAR T.P.  
PRINCIPAL  
CICMS

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
14.7, PADVAL POOL, NAWANSHAR DIST.



# ANNAPOORNA ENGINEERING COLLEGE

(An Autonomous Institution)

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)  
NAAC "A" Grade Accredited Institution 2(f) & 12(B) Status as per UGC Act 1956  
NBA accreditation for (Civil, CSE, EEE), ISO 9001:2015 Certified Institution  
NH-47, Sankari Main Road, Erriyanooraganadi, Salem - 636308, Tamil Nadu



Indian Concrete Institute

Department of Civil Engineering

## Certificate of Participation

This is to certify that B.Mano of Paavai Engineering college has participated in webinar on "Philosophy of Bridge Engineering" presented by Er.D.Kavivarasan organized by the Department of Civil Engineering and ICI - Students Chapter of Annapoorana Engineering College Salem on 15th March 2023.

R. A. Shivasakthiyadivelan  
Ap-Civil

Dr. S. Dhipan Aravind  
Department ICI- Co-ordinator

Mrs. R. S. Gandhimathi  
HOD, Civil Engineering

Dr. A. Anbuhezian  
Principal

PAVAI ENGINEERING COLLEGE  
1847, PACHAL POOL, NAMAKKAL DIST.

Made for free with Certify'em



**COMMUNITY INSTITUTE OF COMMERCE AND MANAGEMENT STUDIES**  
 (Affiliated to Bengaluru City University)  
 #2/ 1,9th Main,9th Cross,2nd Block Jayanagar, Bangalore - 560011

An IQAC Initiative

**CERTIFICATE OF PARTICIPATION**

**CICMS**

This is to certify that Mr./Ms.Dr.S.Vanitha of PAAVAI ENGINEERING COLLEGE has participated in the Virtual International Level Workshop on "ICT TOOLS FOR EFFECTIVE TEACHING AND LEARNING" held on 2<sup>ND</sup> & 3<sup>RD</sup> March 2022.

*Devinder Sharma*

DR. DEVINDER SHARMA  
 PROFESSOR, DEPT. OF COMMERCE  
 HIMACHAL PRADESH UNIVERSITY  
 SHIMLA

*Akshay Rana*

MR.AKSHAY RANA  
 ASST. PROFESSOR, HOD, BBA  
 KC GROUP OF INSTITUTIONS  
 NAWANSHAR, PUNJAB

*Dr. Dharmendra Kumar T.P.*

DR. DHARMENDRA KUMAR T.P  
 PRINCIPAL  
 PAAVAI ENGINEERING COLLEGE  
 ICMS

PRINCIPAL  
 PAAVAI ENGINEERING COLLEGE  
 IMAT, PACHAL Post, NAWANSHAR, PUNJAB



COMMUNITY INSTITUTE OF COMMERCE AND MANAGEMENT STUDIES  
(Affiliated to Bengaluru City University)  
#2/ 1,9th Main,9th Cross,2nd Block Jayanagar, Bangalore - 560011

An IQAC Initiative

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. T. Aravind of PAAVAI  
ENGINEERING COLLEGE has participated in the Virtual International  
Level Workshop on "ICT TOOLS FOR EFFECTIVE TEACHING AND  
LEARNING" held on 2<sup>ND</sup> & 3<sup>RD</sup> March 2022.

*Devinder Sharma*

DR. DEVINDER SHARMA  
PROFESSOR, DEPT. OF COMMERCE  
HIMACHAL PRADESH UNIVERSITY  
SHIMLA

*Akshay Rana*

MR. AKSHAY RANA  
ASST. PROFESSOR, HOD, BBA  
KC GROUP OF INSTITUTIONS  
NAWANSHAR, PUNJAB



DR. DHARMENDRA KUMAR T.P.  
PRINCIPAL  
CICMS



COMMUNITY INSTITUTE OF COMMERCE AND MANAGEMENT STUDIES  
(Affiliated to Bengaluru City University)  
#2/ 1,9th Main,9th Cross,2nd Block Jayanagar, Bangalore - 560011

An IQAC Initiative

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms.R.Duraimurugan of PAAVAI  
ENGINEERING COLLEGE has participated in the Virtual International  
Level Workshop on “ICT TOOLS FOR EFFECTIVE TEACHING AND  
LEARNING” held on 2<sup>ND</sup> & 3<sup>RD</sup> March 2022.

*Devinder Sharma*

DR. DEVINDER SHARMA  
PROFESSOR, DEPT. OF COMMERCE,  
HIMACHAL PRADESH UNIVERSITY  
SHIMLA

*Akshay Rana*

MR.AKSHAY RANA  
ASST. PROFESSOR, HOD, BBA  
KC GROUP OF INSTITUTIONS  
NAWANSHAR, PUNJAB



PRINCIPAL

DR. DHARMENDRA KUMAR T.P  
PRINCIPAL  
CICMS

PAAVAI ENGINEERING COLLEGE  
10-11/67, PACHAI PALLE, NARANPETA

Made for free with Certify'em



COMMUNITY INSTITUTE OF COMMERCE AND MANAGEMENT STUDIES

(Affiliated to Bengaluru City University)

#2/ 1,9th Main,9th Cross,2nd Block Jayanagar, Bangalore - 560011

An IQAC Initiative

## CERTIFICATE OF PARTICIPATION

**CICMS**

This is to certify that Mr./Ms.S.Vishnuprabhu of PAAVAI

ENGINEERING COLLEGE has participated in the Virtual International

Level Workshop on "ICT TOOLS FOR EFFECTIVE TEACHING AND

LEARNING" held on 2<sup>ND</sup> & 3<sup>RD</sup> March 2022.

*Devinder Sharma*

DR. DEVINDER SHARMA  
PROFESSOR, DEPT. OF COMMERCE  
HIMACHAL PRADESH UNIVERSITY  
SHIMLA

*Akshay Rana*

MR. AKSHAY RANA  
ASST. PROFESSOR, HOD, BBA  
KC GROUP OF INSTITUTIONS  
NAWANSHAR, PUNJAB

DR. DHARMENDRA KUMAR T.P  
PRINCIPAL  
CICMS

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
BANGALORE

Made for free with Certify'em



COMMUNITY INSTITUTE OF COMMERCE AND MANAGEMENT STUDIES

(Affiliated to Bengaluru City University)

#2/ 1,9th Main,9th Cross,2nd Block Jayanagar, Bangalore - 560011

An IQAC Initiative

## CERTIFICATE OF PARTICIPATION

CICMS

This is to certify that Mr./Ms.Dr.V.Dharmaraj of PAVAI

ENGINEERING COLLEGE has participated in the Virtual International

Level Workshop on "ICT TOOLS FOR EFFECTIVE TEACHING AND

LEARNING" held on 2<sup>ND</sup> & 3<sup>RD</sup> March 2022.

*Devinder Sharma*

DR. DEVINDER SHARMA  
PROFESSOR, DEPT. OF COMMERCE  
HIMACHAL PRADESH UNIVERSITY  
SHIMLA

*Akshay Rana*

MR. AKSHAY RANA  
ASST. PROFESSOR, HOD, BBA  
KC GROUP OF INSTITUTIONS  
NAWANSHAR, PUNJAB



DR. DHARMENDRA KUMAR T.P  
PRINCIPAL  
CICMS

PAVAI ENGINEERING COLLEGE  
B.T. PACHAL Post, HIMACHAL PRADESH

Made for free with Certify'em

**CITY CHALAPATHI**  
Institute of Technology

AUTONOMOUS  
INSTITUTION

UNIVERSITY OF AP  
TECHNOLOGICAL EDUCATION

NAAC  
GRADE  
A

Recognized  
by State of AP  
1978

ISO 9001  
2015

**INTERNATIONAL CONFERENCE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of 3RD ICRCSET-2022

This is to certify that "VENKATESAN.B" of  
"Associate Professor, Paavai Engineering College"

Has presented the manuscript At International Conference

The 3<sup>RD</sup> International Conference on Recent Challenges in Science, Engineering & Technology-2022  
::Chalapathi Institute of Technology (CITY)- Autonomous , Mothadaka, Guntur, Andhra Pradesh::  
Date:27-NOVEMBER-2022

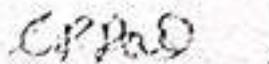
**TITLE: BATTERY MANAGEMENT SYSTEM IN E-VEHICLE USING IOT**

**AUTHORS: SATHYAA.B.B<sup>1</sup>, MOHAMMED RIYAZ.A<sup>2</sup>, PRAKASH.G<sup>3</sup>, VENKATESAN.B<sup>4</sup>**

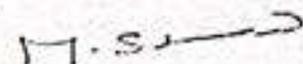
**ISBN-13: 979-8365796164**



Dr. P. Balamuralikrishna  
Conference Convener  
3rd ICRCSET-2022



Dr. V. Ranga Rao  
Principal  
<https://city.ac.in/>



Dr. M. Sreedevi  
Organizing Chair  
S.V. University

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
JBL7, PACHAL Post, NARAYANA Durgam

CERTIFICATE

NATIONAL LEVEL CONFERENCE  
& POSTER PRESENTATION ON EMERGING TRENDS  
IN DEFENCE, AGRICULTURE & ARTIFICIAL INTELLIGENCE SECTOR



Drone Research Lab  
Coimbatore, Tamilnadu

*This is to Certify That*

Dr.P.Thiyagarajan,M.E(SE).,PH.D., - (Paavai Engineering College)

*has presented paper titled*

CAR PARKING MANAGEMENT SYSTEM

*in National Level Conference & Poster Presentation on Emerging Trends conducted on 02 Sep.2022  
by PSG Drone Research Lab in Collaboration With Jet Aerospace Aviation Research Center, Kerala & TN.*

Dr.J.Balakannan.ME.PHD.  
Director - PSG Drone Research Lab

Mrs.Arul Jyothi D.  
Admin Director - Jet Aerospace



PSG DRONE RESEARCH LAB  
2-nd Floor, 1 Block, PSG Campus,  
Peelamedu, Coimbatore, Tamil Nadu.

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
44.7, PACHAL Post, NAJERUVA, N.E.



VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Accredited with 'A' Grade by NAAC

Accredited by NBA

Department of Information Technology

AICTE SPONSORED



INSTITUTIONS  
INNOVATION  
COUNCIL

Member of IITC (Institutions Innovation Council)

National Conference  
on  
Innovation in Engineering and Technology (NCIET'22)

CERTIFICATE OF PARTICIPATION

This is to certify that Mrs. M. Pushpalatha (Associate Professor)

Paavai Engineering College, Pachal, Namakkal

REAL TIME IMAGE SEGMENTATION FOR SELF DRIVING CARS

has presented a paper titled

in the National Conference on Innovation in Engineering and Technology (NCIET'22)  
organized by the Department of Information Technology held on 24<sup>th</sup> & 25<sup>th</sup> November  
2022.

Dr. S. Kamalath, ASP/II  
Mr. A. Gobinath, AP/II

Co-organizers

Dr. R. Kavitha  
Professor & Head, II

Coordinator

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
IN-7, PACHAL Post-NAMAKKAL Dist

Dr. N. Suresh Kumar

Senior Principal



(Autonomous)  
Accredited with 'A' Grade by NAAC  
Accredited by NBA  
Department of Information Technology



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education)

**AICTE SPONSORED**

**National Conference  
ON  
Innovation in Engineering and Technology (NCIET'22)**

**CERTIFICATE OF PARTICIPATION**

**This is to certify that** Mr. B. Venkatesan (Associate Professor)

Paavai Engineering College, Pachal, Namakkal

**has presented a paper title**

VEHICLE COLLISION DETECTION AND ALERT SYSTEM USING YOLO V3 STATE OF ALGORITHM

**in the National Conference on Innovation in Engineering and Technology (NCIET'22 organized by the Department of Information Technology held on 24<sup>th</sup> & 25<sup>th</sup> November 2022.**

Dr. S. Kamalesh, ASP/IT  
Mr. A. Gobinath, AP/IT  
Coordinators

Dr. R. Kavitha  
Professor & Head,  
Convenor

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
NAM.7. PACHAL POST, NAMAKKAL Dis.  
Principal

Dr. N. Suresh Kumar  
Senior Principal

**INTERNATIONAL CONFERENCE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of 3RD ICRCSET-2022

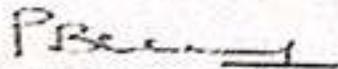
This is to certify that Dr.K.SELVI of  
"PAAVAI ENGINEERING COLLEGE"

Has presented the manuscript At International Conference

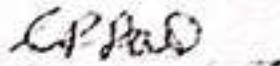
" The Virtual International Conference ::3RD ICRCSET-2022 :: Date:27-NOVEMBER-2022,  
Chalapathi Institute of Technology (CITY)- Autonomous , Mothadaka, Guntur,  
Andhra Pradesh In association with IIRM-SDT"

TITLE: "INDUSTRIAL CART AUTOMATION USING IOT AND AI"

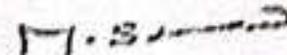
ISBN-13: 978-81-953201-7-8



Dr. P.Balamuralikrishna  
Conference Convener  
3rd ICRCSET-2022



Dr. V. Ranga Rao  
Principal  
<https://city.ac.in/>



Dr. M. Sreedevi  
Organizing Chair  
S.V. University



PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
1047, PAAVAI ROAD, NARASARAOPET



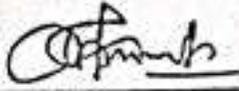
# BANNARI AMMAN INSTITUTE OF TECHNOLOGY

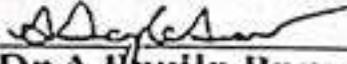
An Autonomous Institution Affiliated to Anna University - Chennai - Approved by AICTE - Accredited by NAAC with "A++" Grade  
SATHYAMANGALAM - 638401 ERODE DISTRICT TAMILNADU INDIA  
Ph: 04295 - 226000/221289 Fax: 04295 - 226066 E-mail: [stoyahed@baisathy.ac.in](mailto:stoyahed@baisathy.ac.in) Web: [www.bisathy.ac.in](http://www.bisathy.ac.in)

## FIRST INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN (ICAIBC-2023)

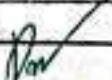
This is to certify that Mrs. Deepa B (Assistant professor)  
has presented the paper entitled Private Documents Vault with Server Side Encryption using cloud AWS S3 Bucket App

in the INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND  
BLOCKCHAIN (ICAIBC-2023), organized by the Department of Artificial Intelligence  
and Data Science & Department of Artificial Intelligence and Machine Learning,  
Bannari Amman Institute of Technology, Sathyamangalam on 5<sup>th</sup> and 6<sup>th</sup> January  
2023.

  
Dr. T. Kumaresan  
Organizing Secretary

  
Dr. A. Hazila Banu  
Convener

  
Dr. S. Pakkirisamy  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
14-7, PACHAL Post, NAMAIKKAL Dis.

CERTIFICATE

**NATIONAL LEVEL CONFERENCE  
& POSTER PRESENTATION ON EMERGING TRENDS  
IN DEFENCE, AGRICULTURE & ARTIFICIAL INTELLIGENCE SECTOR**



**Drone Research Lab**  
Coimbatore, Tamilnadu.

*This is to Certify That*

**M. Saranya (Assistant Professor - Paavai Engineering College)**

*has presented paper titled*

**Credit Card Fraud Prediction for Banking Support with Detailed Analysis  
Using Several Supervised Machine Learning Techniques**

*in National Level Conference & Poster Presentation on 'Emerging Trends' conducted on 02 Sep.2022  
by PSG Drone Research Lab in Collaboration With Jet Aerospace Aviation Research Center, Kerala & TN.*

Dr. J. Balakannan, M.E., Ph.D.  
Director - PSG Drone Research Lab

Mrs. Arul Jyothi D.  
Admin Director - Jet Aerospace

0015200048



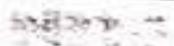
**PSG DRONE RESEARCH LAB**  
2-nd Floor, 1 Block, PSG Campus,  
Peelamedu, Coimbatore, Tamil Nadu.

*Principal*  
**PRINCIPAL**  
**PAVAI ENGINEERING COLLEGE**  
44/7, PACHAL Post, NALLUR, Dist.



**CITY CHALAPATHI**  
Institute of Technology

AUTONOMOUS



NAAC  
GR-3

A



CONFERENCES



CONFERENCES

INTERNATIONAL CONFERENCE

This Certificate is issued on behalf of publication of your manuscript in the proceedings of 3RD ICRCSET-2022

This is to certify that **S.SUBASHINI** of  
**PAAVAI ENGINEERING COLLEGE**

Has presented the manuscript At International Conference

International Conference ::3RD ICRCSET-2022 :: Date:27-NOVEMBER-2022  
Chalapathi Institute of Technology (CITY)- Autonomous , Mothadaka, Guntur,  
Andhra Pradesh in association with IIRM-SDT"

TITLE:- EMERGENCY VEHICLE DETECTION IN HEAVY TRAFFIC USING DEEP CONNET2D AND CV  
ISBN-13: 9798365796164

Dr. P.Balamuralikrishna  
Conference Convener  
3rd ICRCSET-2022

Dr. V. Ranga Rao  
Principal  
<https://city.ac.in/>

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
44-7, PACHAL Post, NAMAKKAL DIST.

Dr. M. Sreedevi  
Organizing Chair  
S.V. University

**INTERNATIONAL CONFERENCE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of **3RD ICRCSET-2022**

This is to certify that "DR. P. THİYAGARAJAN" of  
"Associate Professor, Paavai Engineering College"

Has presented the manuscript At Virtual Conference:: Google Meet

The 3<sup>RD</sup> International Conference on Recent Challenges in Science, Engineering & Technology-2022

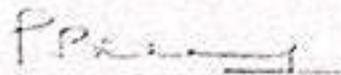
::Chalapathi Institute of Technology (CITY)- Autonomous, Mothadaka, Guntur, Andhra Pradesh::

Date:27-NOVEMBER-2022::Google Meet: [meet.google.com/amq-xvmh-xed](https://meet.google.com/amq-xvmh-xed)

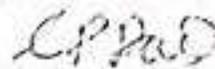
**TITLE:** VEHICLE ANTI THEFT SYSTEM USING FACE RECOGNITION

**AUTHORS:** DR. P. THİYAGARAJAN<sup>1</sup>, SIVA.P<sup>2</sup>, SNEHA.B<sup>3</sup>, RAVEENA.M<sup>4</sup>

**ISBN-13:** 979-8365796164



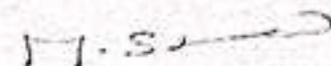
Dr. P. Balamuralikrishna  
Conference Convener  
3rd ICRCSET-2022



Dr. V. Ranga Rao  
Principal  
<https://city.ac.in/>



PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
1947, PACHAL Post, NAMAKKAL Dist



Dr. M. Sreedevi  
Organizing Chair  
S.V. University

**CERTIFICATE**

**NATIONAL LEVEL CONFERENCE  
& POSTER PRESENTATION ON EMERGING TRENDS  
IN DEFENCE, AGRICULTURE & ARTIFICIAL INTELLIGENCE SECTOR**



*This is to Certify That*

M.Pushpalatha (Associate Professor - Paavai Engineering College)

*has presented paper titled*

Diabetes Prediction Using Back Propagation Neural Network Algorithm

*in National Level Conference & Poster Presentation on Emerging Trends conducted on 02 Sep.2022  
by PSG Drone Research Lab in Collaboration With Jet Aerospace Aviation Research Center, Kerala & TN.*

*J. Balakannan*

Dr. J. Balakannan ME, PhD,  
Director - PSG Drone Research Lab

*Arul Jyothi D*

Mrs. Arul Jyothi D  
Admin Director - Jet Aerospace



PSG DRONE RESEARCH LAB  
2-nd Floor, 1 Block, PSG Campus,  
Peelamedu, Coimbatore, Tamil Nadu.

*Principal*  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
44-7 PACHAL Post, NAMAKKAL Dis



# CITY CHALAPATHI Institute of Technology

AUTONOMOUS  
INSTITUTION

INBA

NAAC  
GRADE A



PROGRESSIVE  
SOCIETY



FORWARD  
LOOKING

This Certificate is issued on behalf of publication of your manuscript in the proceedings of 3RD ICRCSET-2022

This is to certify that "B. DEEPA" of  
"Asst. Professor, Department of IT, Paavai Engineering College"

Has presented the manuscript At International Conference

The 3<sup>RD</sup> International Conference on Recent Challenges in Science, Engineering & Technology-2022  
::Chalapathi Institute of Technology (CITY)- Autonomous, Mothadaka, Guntur, Andhra Pradesh::  
Date:27-NOVEMBER-2022

TITLE: CROP DETECTION AND PRECAUTIONS MEASURES WITH CROPS SUGGESTIONS TO GROW IN THE LAND

AUTHORS: CHARULATHA RAMESH<sup>1</sup>, MUKUNTHAN<sup>2</sup>, MANO RANJANI<sup>3</sup>, B. DEEPA<sup>4</sup>

ISBN-13: 979-8365796164

Dr. P. Balamuralikrishna  
Conference Convener  
3rd ICRCSET-2022

Dr. V. Ranga Rao  
Principal

<https://city.ac.in/>

PRINCIPAL

PAVAI ENGINEERING COLLEGE  
4th.7. PACHAL Post, NAMAKKAL Dist. S.V. University

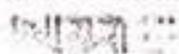
Dr. M. Sreedevi

Organizing Chair

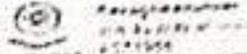
S.V. University

# CITY CHALAPATHI Institute of Technology

AUTONOMOUS



NAAC  
ACCREDITED  
A



## INTERNATIONAL CONFERENCE

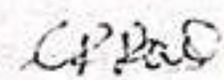
This Certificate is issued on behalf of publication of your manuscript in the proceedings of 3RD ICRCSET-2022

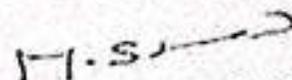
This is to certify that " S.SAKTHIVEL " of  
"PAAVAI ENGINEERING COLLEGE"

Has presented the manuscript At International Conference  
International Conference ::3RD ICRCSET-2022 :: Date:27-NOVEMBER-2022  
Chalapathi Institute of Technology (CITY)- Autonomous , Mothadaka, Guntur,  
Andhra Pradesh in association with IIRM-SDT"

TITLE: " EMERGENCY VEHICLE DETECTION IN HEAVY TRAFFIC USING DEEP CONNET2D AND CV"  
ISBN-13: 9798365796164

  
Dr. P. Balamuralikrishna  
Conference Convener  
3rd ICRCSET-2022

  
Dr. V. Ranga Rao  
Principal  
<https://city.ac.in>  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
PACHAL Post, NAMAKKAL Dist

  
Dr. M. Sreedevi  
Organizing Chair  
S.V. University

**CERTIFICATE OF PRESENTATION**

*This is to certify that*

**Dr.P.Thiyagarajan**

*"Dept. of Information Technology & Paavai Engineering College, Namakkal"*

THE INTERNATIONAL CONFERENCE  
ON

**RECENT DEVELOPMENTS IN ENGINEERING & TECHNOLOGY- ICRDET-2023**

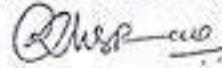
Organized by International Institute of Research in Multidisciplinary-Skill Development Trust, Chirala, Bapatla,  
Andhra Pradesh, India::Date: 26 - MARCH - 2023:: Google Meet

Paper Title: "A MUTIMODEL LOW- CODE CHATBOT DEVELOPMENT FRAMEWORK-XATKIT"

Author(s): B.Sneha, M.Raveena, P.Siva, Dr. P.Thiyagarajan



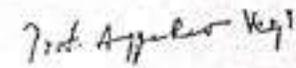
Er. M. Sivudu  
GENERAL CHAIR  
PACE ITS, Ongole



Mr. K. Hemasundararao  
SESSION CHAIR  
CECC, Chirala



Dr. S Kavitha  
TECHNICAL CHAIR  
Bangalore, India

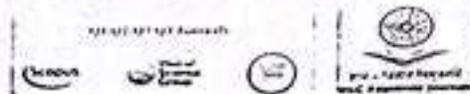


Dr. Appa Rao Vegi  
KEYNOTE SPEAKER  
GRIET, Autonomous, Hyderabad

IIRM-SDT E-XPLORE::<https://www.iirmsdt.org/>

ISBN-13:[979-8-3886-0495-8](https://doi.org/10.1007/978-81-388-6049-5)

Google Meet Link: <https://meet.google.com/vrx-dgsa-ibe?hs=224>



**PRINCIPAL**  
**PAVAI ENGINEERING COLLEGE**  
**417, PACHAL P.O., NAMAKKAL Dist.**





## CERTIFICATE OF PRESENTATION

This is to certify that

**M. SARANYA**

*"Assistant Professor, Dept. of Information Technology, Paavai engineering college, Namakkal"*

THE VIRTUAL INTERNATIONAL CONFERENCE  
ON

ADVANCES IN ENGINEERING AND WEB OF THINGS - ICAEWoT -2022

Organized by National Institute of Computing, Majestic, Bangalore, Karnataka, India

DATE: 04-DECEMBER-2022:: GOOGLE MEET:: <https://meet.google.com/nmn-ddsr-ffz?hs=224>

Paper ID:: NIC-ICAEWoT-2022-007:: Presentation Schedule:: 10:31 Am - 10:40 Am

Paper Title: "TRAFFIC VIOLATION PREDICTION USING DEEP LEARNING BASED ON HELMETS WITH NUMBER PLATE RECOGNITION "

Author(s): MUGUNTHAN R, VENKATESH S, PARTHSARATHI T, M. SARANYA

Mr. K. Hemasundararao  
GENERAL CHAIR  
CECC, Chirala

Er. M. Sivudu  
SESSION CHAIR  
PACE ITS, Ongole

Dr. J. Ravindra  
TECHNICAL CHAIR  
BEC, BAPATLA,

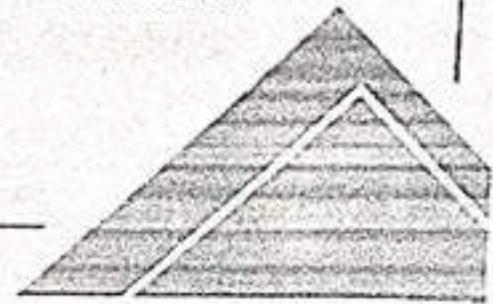
Dr. D. Rajendra Prasad  
CONFERENCE CHAIR  
SACET, CHIRALA

NIC:: <https://www.nicsdt.com/>

ISBN-13: [979-8-3668-5750-5](https://doi.org/10.1007/978-81-366-8575-0)

Google Meet Link: <https://meet.google.com/nmn-ddsr-ffz?hs=224>

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
M.T. PACHAL Post, NAMAKKAL Dist

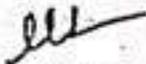


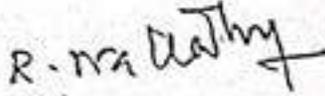
*National e-Conference on Artificial Intelligence, Cyber Security, IoT and  
Computing Technologies*

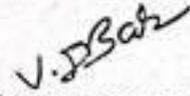
*Certificate of Participation*

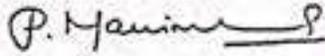
APRIL, 24  
2023

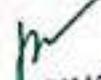
This is to certify that Dr.B.Venkatesan of Paavai Engineering College has presented a paper titled "Advanced Battery Management System In E-Vehicle Using IoT" at the National e-Conference on Artificial Intelligence, Cyber Security, IoT and Computing Technologies (NASICT'23) organized by Karpagam Institute of Technology in collaboration with ICT Academy held on 24.04.2023.

  
Dr. K.KARUNAMBIGA  
Convener

  
Dr. R.NALLAKUMAR  
Convener

  
Mr. V.DINESHBABU  
Convener

  
Dr. P. MANIMARAN  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
4117, PACHAL Post, NAMAKKAL DIST.



# Certificate of Participation

## BABYLATHA M

has presented a paper on topic ..... SYMPTOMS BASED DISEASE PREDICTION MODEL USING  
..... MACHINE LEARNING APPROACH. .... in 2nd International Conference on Advancements in  
Automotive Technology (ICAAT) 2023 conducted by the department of Automobile Engineering at  
Bannari Amman Institute of Technology held on 5th & 6th April 2023.

Dr M BharathiRaja  
HOD - Automobile Engineering

PRINCIPAL  
PAARVAI ENGINEERING COLLEGE  
114.7, PACHAL Post, NARAYANAPURAM

Dr C Palanisamy  
Principal

## CERTIFICATE OF PRESENTATION

This certificate is presented to

M.Pushpalatha

"Associate Professor, Department of INFORMATION TECHNOLOGY PAAVAI ENGINEERING  
COLLEGE, Tamil Nadu"

THE VIRTUAL INTERNATIONAL CONFERENCE ON EMERGING TECHNIQUES IN ENGINEERING AND INTERNET OF THINGS (IOT) - ICETE IOT: 16-MARCH-2023:  
GOOGLE MEET

SRM Institute of Science and Technology, Kattankulathur-603 203, Tamil Nadu, India

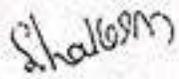
Paper Title: Fake news detection using deep learning techniques

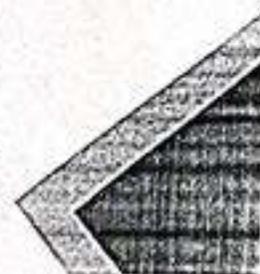
Author(s): S.L.Nivetha R.Swedha S.Yogalakshmi ,M.Pushpalatha

SBN NO:975-654-5447-20

GoogleMeet: [://meet.google.com/jwraxqm-csw](https://meet.google.com/jwraxqm-csw)

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
PACHAL Post, NAMAKKAL Dist

  
Dr.S.Lokesh  
Co-ordinator





**NRISSET**

**CERTIFICATE OF PRESENTATION**

This certificate is presented to

**M.Babylatha**

**"Associate Professor, Department of INFORMATION TECHNOLOGY,  
PAAVAI ENGINEERING COLLEGE, Tamil Nadu"**

**THE VIRTUAL INTERNATIONAL CONFERENCE ON EMERGING TECHNIQUES IN ENGINEERING AND INTERNET OF THINGS (IOT) -ICETEIoT: 05-MARCH-2023 : GOOGLE MEET**

**Organized by National Research Institute of Science and Engineering Technology, Hyderabad, India**

Paper Title: "Abnormal event detection and person identification from surveillance cameras using motion vectors with deep learning"

Author(s): M.Gokulakannan<sup>1</sup>, R.S.Sridharan<sup>2</sup>, S.karthick<sup>3</sup>, S.L.Nivetha<sup>4</sup>, M.Babylatha<sup>5</sup>

Session Chair

Dr L. Srinivasan

Dr H.G.P Institute of Technology

General Chair

Jagan Babu

R.M.D Engineering College

Keynote Speaker

Srinivasan S

AMCET

ISBN-13: 979-8386-020-859

Google Meet: <https://meet.google.com/jwr-axqm-csw>

**PRINCIPAL**  
**PAAVAI ENGINEERING COLLEGE**  
**42-7, PACHAL Post, NAMAKKAL Dist.**

CERTIFICATE

**NATIONAL LEVEL CONFERENCE  
& POSTER PRESENTATION ON EMERGING TRENDS  
IN DEFENCE, AGRICULTURE & ARTIFICIAL INTELLIGENCE SECTOR**



*This is to Certify That*

**B.Deepa (Assistant Professor - Paavai Engineering College)**

*has presented paper titled*

**Private Document Vault With Server Side Encryption Using Cloud AWS S3  
Bucket With Streamlit App**

*in National Level Conference & Post-er Presentation on Emerging Trends conducted on 02 Sep.2022  
by PSG Drone Research Lab in Collaboration with Jet Aerospace Aviation Research Center, Kerala & TN.*

Dr.J.Balakannan.ME.PhD.  
Director - PSG Drone Research Lab

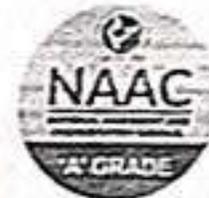
Mrs.Arul Jyothi D.  
Admin Director - Jet Aerospace



**PSG DRONE RESEARCH LAB**  
2-nd Floor, 1 Block, PSG Campus,  
Peelamedu, Coimbatore, Tamil Nadu

**PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
414-7, PACHAL Post, NAMAKKAL Dist**





<http://sacet.ac.in/>

**INTERNATIONAL CONFERENCE::BLENDED MODE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
**ICRTCSE -2023**

This is to certify that "Mrs. M SARANYA" of  
"Asst. Professor, Dept. of IT, Paavai Engineering College (Autonomous), Tamil Nadu"

Has presented the manuscript at Virtual Conference:: Google Meet  
"The International Conference on "Recent Trends in Computer Science and Engineering" -  
ICRTCSE-2023:: Blended Mode

St. Ann's College of Engineering & Technology - Chirala, Andhra Pradesh  
Dates: 19 - FEBRUARY - 2023(Online) & 20 - FEBRUARY - 2023(Offline)

Google Meet: [meet.google.com/rto-ixzo-sxi](https://meet.google.com/rto-ixzo-sxi)

**TITLE: A DECENTRALISED ESCROW PROTOCOL THAT FACILITATES SECURE P2P PAYMENTS BETWEEN TRUSTLESS PARTIES**

**AUTHORS: K JAYAGANESH, M KABILASH BALAJI, K VARUNPRASATH, Mrs. M SARANYA**

**ISBN-13: 979-8378014330**

**Dr. P. Harini**  
Conference Convener  
ICRTCSE-2023

**Dr. M. VenuGopala Rao**  
Principal

<http://sacet.ac.in/>

**Dr. M Sreedevi**  
Organizing Chair

PRINCIPAL ORGANIZING CHAIR  
PAVAI ENGINEERING COLLEGE  
CH. T. PACHAL POST, NADAPET, TIRUPATI



# JP COLLEGE OF ENGINEERING

Ayikudi, Tenkasi District, Tamil Nadu - 627 852, INDIA.

RUN BY DMI SISTERS



APPROVED BY AICTE | AFFILIATED TO ANNA UNIVERSITY

ISO 9001:2015 CERTIFIED



## Certificate of Participation

This is to certify that *Mrs.N.Hemalatha* of Paavai Engineering College ,Autonomous,Namakal has presented a paper titled Blockchain Based Cloud Data Storage Using Data Fragmentation And Encryptiom the *International Conference on Advanced Research In Information and Communication Technologies (ICARICT 2023)*organized by CSE and ECE departments of JP College of Engineering, held on 19th and 20th April 2023.

Certificate ID : IC23CSE-125      ISBN Number - 978-93-91115-89-0

  
CONVENOR  
Dr. S. D. Jayavathi  
HoD / ECE

  
CONVENOR  
Dr. P. Nancy  
HoD / CSE

  
ORGANIZING CHAIR  
Dr. M. Rajlumar  
PRINCIPAL

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
#H-7, PACHAL Post, NAMAKKAL Dis.



# Certificate of Participation

## SUBASHINI S

has presented a paper on topic DETECT AND PREVENT ANTI-COUNTERFEIT PRODUCT FOR ONLINE AND OFFLINE SALES USING BLOCKCHAIN TECHNOLOGY in 2nd International Conference on Advancements in Automotive Technology (ICAAT) 2023 conducted by the department of Automobile Engineering at Bannari Amman Institute of Technology held on 5th & 6th April 2023.

Dr M Bharathi Raja  
HOD - Automobile Engineering

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
PACHAL Post, NAMAKKAL Dist.  
Principal



**Shobhit  
University**

EDUCATION EMPOWERS

## CERTIFICATE OF PRESENTATION

This certificate is presented to

**Dr.B.VENKATESAN**

\*Assistant Professor, Department of INFORMATION TECHNOLOGY, PAAVAI ENGINEERING COLLEGE, Tamil Nadu\*

The Virtual International Conference on Multidisciplinary Perspectives in  
Engineering & Technology (ICMPET-2023)

02-April-2023: (Google Meet: <https://meet.google.com/bnu-actx-yvt>)

Organized by SHOBHIT UNIVERSITY - Gangoh, Uttar Pradesh

Paper Title: Blockchain Based Secure Photo Sharing Framework for Cross Social Network

Authors: Ezhumalai M, Anbarasan N, Kishore M, Mr B Venkatesan

ISBN-13: 979-8-389-938-205

Conference convener

Dr. Somprabh Dubey

Shobhit University

Session Chair

Dr. Abhay Bhatia

Roorkee Institute of Technology

keynote speaker

Dr. Jemima Jeba

Roorkee Institute of Technology

Engineering and Sciences

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
TIRUPACHAL Post. NAMAKKAL DISTRICT



## **CERTIFICATE OF PRESENTATION**

*This is to certify that*

**Mrs.B.DEEPA**

**"INFORMATION TECHNOLOGY, PAAVAI ENGINEERING COLLEGE"**

**THE INTERNATIONAL CONFERENCE**

**ON**

**RECENT DEVELOPMENTS IN ENGINEERING & TECHNOLOGY- ICRDET-2023**

Organized by International Institute of Research in Multidisciplinary-Skill Development Trust, Chirala, Bapatla,  
Andhra Pradesh, India::Date: 26 - MARCH - 2023:: Google Meet

Paper Title: **"SIGN LANGUAGE RECOGNITION FOR IMPAIRED PEOPLES WITH SPEECH RECOGNITION"**

Author(s): CHARULATHA R, MUKUNTHAN M, MANORANJANI S, Mrs.B.DEEPA

**Er. M. Sivudu**  
GENERAL CHAIR  
PACE ITS, Ongole

**Mr. K. Hemasundararao**  
SESSION CHAIR  
CECC, Chirala

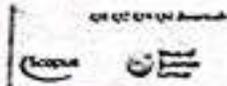
**Dr. S Kavitha**  
TECHNICAL CHAIR  
Bangalore, India

**Dr. Appa Rao Vegl**  
KEYNOTE SPEAKER  
GRIET, Autonomous, Hyderabad

IIRM-SDT E-XPLORE::<https://www.iirmsdt.org/>

ISBN-13:979-8-3886-0495-1

Google Meet Link: <https://meet.google.com/vrx-dg5a-lbe?hs=224>



**PRINCIPAL**  
PAAVAI ENGINEERING COLLEGE  
4N.7, PACHAL Post, NAMAKKAL Dis.





# Certificate of Participation

## Dr. B. VENKATESAN

has presented a paper on topic ..... SMART METER FIRMWARE FOR MONITOR AND CONTROL THE  
ELECTRICAL APPLIANCES CONSUMPTION in 2nd International Conference on Advancements in  
Automotive Technology (ICAAT) 2023 conducted by the department of Automobile Engineering at  
Bannari Amman Institute of Technology held on 5th & 6th April 2023.

Dr M BharathiRaja  
HOD - Automobile Engineering

Dr C Palanisamy

PRINCIPAL

PADAVAI ENGINEERING COLLEGE  
114-7, PACHAL Post, NAMAKKAL DIST



**Shobhit  
University**

EDUCATION EMPOWERS

## CERTIFICATE OF PRESENTATION

This certificate is presented to

**Dr.K.SELVI**

\*Assistant Professor, Department of INFORMATION TECHNOLOGY, PAAVAI ENGINEERING COLLEGE, Tamil Nadu\*

The Virtual International Conference on Multidisciplinary Perspectives in  
Engineering & Technology (ICMPET-2023)

02-April-2023: (Google Meet: <https://meet.google.com/bnu-actx-yvt>)

Organized by SHOBHIT UNIVERSITY - Gangoh, Uttar Pradesh

Paper Title: Blockchain Based Secure Photo Sharing Framework for Cross Social Network

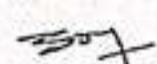
Authors: Ezhumalai M, Anbarasan N, Kishore M, Mr B Venkatesan

ISBN-13: 979-8-389-938-205

  
Conference convener

Dr. Somprabh Dubey

Shobhit University

  
Session Chair

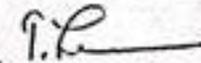
Dr. Abhay Bhatia

Roorkee Institute of Technology

  
PRINCIPAL

PAAVAI ENGINEERING COLLEGE

7th, PACHAL Post, NANAKAL, DIST. KANNUR

  
keynote speaker

Dr. Jemima Jeba

Kannur Institute of Technology  
and Sciences



**Shobhit  
University**

EDUCATION EMPOWERS

## CERTIFICATE OF PRESENTATION

This certificate is presented to

**P.ANITHA**

"Associate professor, Department of INFORMATION TECHNOLOGY, PAAVAI ENGINEERING COLLEGE, Tamil Nadu"

The Virtual International Conference on Multidisciplinary Perspectives in  
Engineering & Technology (ICMPET-2023)

02-April-2023: (Google Meet: <https://meet.google.com/bnu-acfx-yvt>)

Organized by SHOBHIT UNIVERSITY - Gangoh, Uttar Pradesh

Paper Title: Cryptocurrency price prediction using regression algorithm in deep learning

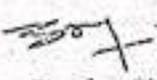
Authors: V.ARUN,V.DINESH KUMAR,S.HERAMBHA PRASATH,P.ANITHA

ISBN-13: 979-8-389-938-205

  
Conference convener

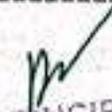
Dr. Somprabh Dubey

Shobhit University

  
Session Chair

Dr. Abhay Bhatia

Roorkee Institute of Technology

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
No.7, PACHAL Post, NAMAKKAL Dis:

keynote speaker

Dr. Jemima Jeba

Karunya Institute of Technology  
and Sciences



**Shobhit  
University**

EDUCATION EMPOWERS

## CERTIFICATE OF PRESENTATION

This certificate is presented to

**Mrs S SUBASHINI**

\*Assistant Professor, Department of INFORMATION TECHNOLOGY, PAAVAI ENGINEERING COLLEGE, Tamil Nadu\*

The Virtual International Conference on Multidisciplinary Perspectives in  
Engineering & Technology (ICMPET-2023)

02-April-2023: (Google Meet: <https://meet.google.com/bnu-acfx-yvt>)

Organized by SHOBHIT UNIVERSITY - Gangoh, Uttar Pradesh

Paper Title: Deep Learning Anti-Fraud Model for Internet Loan Prediction

Authors: Pradeep P, Alen A, King Dinakaran R K, Mrs S Subhashini

ISBN-13: 979-8-389-938-205

Conference convener

Dr. Sanprabh Dubey

Shobhit University

Session Chair

Dr. Abhay Bhatia

Roorkee Institute of Technology

keynote speaker

Dr. Jemima Jeba

Kannaya Institute of Technology  
and Sciences

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
41.7 PACHAL Post, KAMAKKAL Dist.



**NRISSET**

**CERTIFICATE OF PRESENTATION**

This certificate is presented to  
**DR.P.THIYAGARAJAN**

**“Assistant Professor, Department of Information Technology, Paavai Engineering College, Pachal, Namakkal, Tamil nadu”**

**THE VIRTUAL INTERNATIONAL CONFERENCE ON EMERGING TECHNIQUES IN ENGINEERING AND INTERNET OF THINGS (IOT) -ICETE IOT: 05-MARCH-2023 : GOOGLE MEET**

**Organized by National Research Institute of Science and Engineering Technology, Hyderabad, India**

Paper Title: **“ABNORMALITIES,CARDIO ARREST,STORKE& UNCONSCIOUS PREDICTION SYSTEM USING IOT”**

Author(s): **MITHRA M<sup>\*</sup> , MONIKA K.E<sup>\*</sup> , PAVITHRA V.M<sup>\*</sup> , Dr.P.THIYAGARAJAN<sup>\*</sup>**

Session Chair

Dr. L. Srinivasan

Dr. N.G.P Institute of Technology

General Chair

Jagan Babu

R.M.D Engineering College

Keynote Speaker

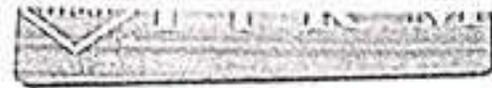
Srinivasan S

AMCET

ISBN-13: 978-8108-230-839

Google Meet:<https://meet.google.com/jwexqgm-csw>

  
**PRINCIPAL**  
**PAAVAI ENGINEERING COLLEGE**  
**JH.7, PACHAL Post, NAMAKKAL Dis<sup>\*</sup>**



# CERTIFICATE OF PRESENTATION

*This is to certify that*

## **DR. P. THIYAGARAJAN**

*"INFORMATION TECHNOLOGY, PAAVAI ENGINEERING COLLEGE"*

### **THE INTERNATIONAL CONFERENCE ON**

### **RECENT DEVELOPMENTS IN ENGINEERING & TECHNOLOGY- ICRDET-2023**

Organized by International Institute of Research in Multidisciplinary-Skill Development Trust, Chirala, Bapatla,  
Andhra Pradesh, India::Date: 26 - MARCH - 2023:: Google Meet

Paper Title: "FETAL CARDIAC TUMORS DETECTION USING DEEP LEARNING FROM ECHOCARDIOGRAPHIC IMAGE "

Author(s): BALAJI V M, DHARUNKUMAR S, GOKULAVANAN P, DR. P. THIYAGARAJAN

Er. M. Sivudu  
GENERAL CHAIR  
PACE ITS, Ongole

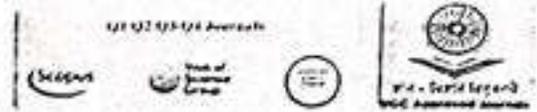
Mr. K. Hemasundararao  
SESSION CHAIR  
CECC, Chirala

Dr. S Kavitha  
TECHNICAL CHAIR  
Bangalore, India

Dr. Appa Rao Vegi  
KEYNOTE SPEAKER  
GRIET, Autonomous, Hyderabad

IIRM-SDT E-XPLORE::<https://www.iirmsdt.org/>  
ISBN-13:[979-8-3886-0495-8](https://www.isbn-international.org/product/9788388604958)  
Google Meet Link: <https://meet.google.com/vrx-dgsa-lbe?hs=224>

**PRINCIPAL**  
PAAVAI ENGINEERING COLLEGE  
4M-7, PACHAL Post, NAMAKKAL Dist





CSIR-CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH  
(Council of Scientific & Industrial Research)  
Barwa Road, Dhanbad - 826015 (Jharkhand)

# CERTIFICATE OF PRESENTATION

This certificate is presented to

**P Anitha M.E**

**"Under Graduate Student, Department of INFORMATION TECHNOLOGY  
PAAVAI ENGINEERING COLLEGE, Tamil Nadu"**

THE VIRTUAL INTERNATIONAL CONFERENCE ON EMERGING TECHNIQUES IN ENGINEERING AND INTERNET OF THINGS  
(IOT) - ICETE IOT: 15-MARCH-2023: GOOGLE MEET

CSIR-Central Institute of Mining and Fuel Research (CSIR) Auditorium, Barwa Road,  
Dhanbad - 826015

Paper Title: Fir system using blockChain technology

Author(s): P Anitha M.E, R Logesh, J Prem kumar, S Sathish kumar

Google Meet Link

[https://meet.google.com/vrx-dpsa-ibe?  
hs=224](https://meet.google.com/vrx-dpsa-ibe?hs=224)

*Dr.S.Lokesh*  
Dr.S.Lokesh  
Co-ordinator

*[Signature]*  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
H.N.T. PACHAL Post, NAMAKKAL - Dist.

*[Signature]*  
DR NEHAL SHAH (P.T.)  
Organizing Chairperson - 43<sup>rd</sup>  
IAP National Conference



**NRISSET**

**CERTIFICATE OF PRESENTATION**

This certificate is presented to

**SARANAYA M**

"Under Graduate Student, Department of INFORMATION TECHNOLOGY  
PAAVAI ENGINEERING COLLEGE, Tamil Nadu"

**THE VIRTUAL INTERNATIONAL CONFERENCE ON EMERGING TECHNIQUES IN ENGINEERING AND INTERNET OF  
THINGS (IOT) -ICETEIoT: 05-MARCH-2023 : GOOGLE MEET**

**Organized by National Research Institute of Science and Engineering Technology, Hyderabad, India**

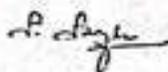
Paper Title: "CURRENCY RECOGNITION FOR VISUALLY IMPAIRMENT PEOPLE USING DEEP LEARNING ALGORITHM "

Author(s): MUGUNTHAN R<sup>1</sup>, VENKATESH S<sup>2</sup>, PARTHA SARATHI<sup>3</sup>, M.SARANAYA<sup>4</sup>

  
Session Chair

Dr L. Srinivasan

Dr N.G.P Institute of Technology

  
General Chair

Jagan Babu

R.M.D Engineering College

  
Keynote Specker

Srinivasan S

AMCET

ISBN-13: 979-8386-020-839

Google Meet:<https://meet.google.com/jwaxqm-csw>

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
14.7 PACHAL Post, NAMAKKAL Dis.



International Research Institute of Multidisciplinary Engineering & Technology

# CERTIFICATE OF PRESENTATION

This certificate is presented to

**Mrs. M PUSHPALATHA**

"Associate Professor, Department of Information Technology, PAAVAI ENGINEERING COLLEGE, Tamil Nadu"

**The Virtual International Conference on Recent Trends in Emerging Technologies and Engineering -**

**ICRTETE - 2023 Date: 09-April-2023**

Organized by

International Research Institute of Multidisciplinary Engineering and Technology, Visakhapatnam

Paper Title: BEHAVIOR BASED FRAUD DETECTION IN ONLINE PAYMENT SERVICES

Authors: PAVEENA K, VIGNESH S, LOGESHWARAN S, Mrs. M PUSHPALATHA

General Chair

Dr. S. Swarnalatha

SVUCE

Session Chair

Dr. S. Nagaraju

Srinivasa Ramanujan Institute of Technology

keynote speaker

Dr. Abhay Bhatia

Roorkee Institute of Technology

ISBN-13: 979-8-390-777-114

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
M.T PACHAL ROAD, KEMAKKAL DIST (Google Meet: [meet.google.com/vss-cvru-ezd](https://meet.google.com/vss-cvru-ezd))

## CERTIFICATE OF PRESENTATION

This certificate is presented to

**SARANYA M**

\*Associate professor, Department of INFORMATION TECHNOLOGY, PAAVAI ENGINEERING COLLEGE, Tamil Nadu\*

The Virtual International Conference on Multidisciplinary Perspectives in  
Engineering & Technology (ICMPET-2023)

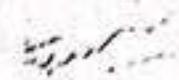
02-April-2023: (Google Meet: <https://meet.google.com/bnu-acfx-yvt>)

Organized by SHOBHIT UNIVERSITY - Gangoh, Uttar Pradesh

Paper Title: AN END-TO-END SYSTEM FOR REMOTE SENSING IMAGE DEHAZING BASED ON LOCAL EXTREMA CNN

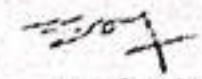
Authors: Raghul Napoleon, Rishikeshwar S, Vigneshwaran P, Saranya M

ISBN-13: 979-8-389-938-205

  
Conference convener

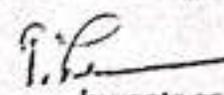
Dr. Somprabh Dubey

Shobhit University

  
Session Chair

Dr. Abhay Bhatia

Roorkee Institute of Technology

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
M.T. PACHAL Post, NAMAKKAL Dist.

keynote speaker

Dr. Jemima Jeba

Karunya Institute of Technology  
and Sciences



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DR B VENKATESAN**

for successfully completing the course

## Compiler Design

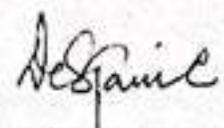
with a consolidated score of **55** %

Online Assignments	23.38/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 381

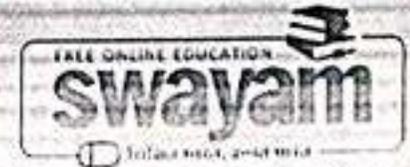
Jan-Apr 2023  
(12 week course)

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
IH.7. PACHAL Post, NAMAKKAL Dis.

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CSS7S69570884

To validate the certificate



No. of credits recommended: 3 or 4



# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**B DEEPA**

for successfully completing the course

**Computer Networks and Internet Protocol**

with a consolidated score of **57 %**

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jan-Apr 2023)

Roll No: NPTEL23CS48S44290097

PRINCIPAL  
MAJAL ENGINEERING COLLEGE  
MAJAL MAJAKKAL DIST

Duration of NPTEL course : 12 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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY  
UNIVERSITY COLLEGE OF ENGINEERING  
BHARATHIDASAN INSTITUTE OF TECHNOLOGY  
ANNA UNIVERSITY, TIRUCHIRAPPALLI - 620 024



# GCORT'23

## GLOBAL COLLOQUIUM ON ONCOLOGY RESEARCH AND THERAPY

Theme : Education and Research towards Tumor Eradication

# CERTIFICATE

THIS CERTIFICATE IS AWARDED TO

Prof. KARTHIK M G

Paavai Engineering college (Autonomous)

Has participated / Presented / Evaluated in the Global Colloquium on Oncology Research and Therapy - Virtually / Physically organised by the Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli, held on 11 & 12 February 2023.

Dr. S. Latha  
Convener

Dr. P. Selvamani  
Convener

Dr. A. Puratchikody  
Prof & HOD

Dr. T. Senthilkumar  
Prof & Dean



**Bharath**  
INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

## DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY

### CERTIFICATE OF APPRECIATION

This is to certify that *Dr./Mr./Ms.* M.G. KARTHIK has participated / presented an oral / poster on the title FORMULATION OF POLY HERBAL LIQUID SHAMPOO at the International Conference on Recent Trends in Translational Research (RTTR) held on March 29 -31, 2023 at Bharath Institute of Higher Education and Research, Chennai, India.

  
Co-Convenor

Dr. S. Selvakumar  
Professor, IBT

  
Co-Convenor

Dr. D. Sharmila  
Assistant Professor, IBT

  
Convenor

Dr. L. Jeyanthi Rebecca  
Dean & HOD, IBT



# DAVANGERE UNIVERSITY



DEPARTMENT OF STUDIES IN  
BOTANY, SHIVAGANGOTRI, DAVANGERE-577007



This is to certify that Shri/Smt/Miss/Mrs/Dr KARTHIH M G, PAAVAI ENGINEERING COLLEGE , has participated in **DU-BOT-KSTA SPONSORED TWO DAYS NATIONAL VIRTUAL LECTURE WORKSHOP ON “RECENT ADVANCES IN LIFE SCIENCE”** Held on 13th to 14th September 2022 successfully

Dr, Thippeswamy M

**Co-Ordinator**

Dr, D Kotresha

**Convenor**

Prof B.D Kumbar

**Honble, Voice-chancellor**



DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY  
UNIVERSITY COLLEGE OF ENGINEERING  
BHARATHIDASAN INSTITUTE OF TECHNOLOGY  
ANNA UNIVERSITY, TIRUCHIRAPPALLI - 620 024



**GCORT'23**  
**GLOBAL COLLOQUIUM ON**  
**ONCOLOGY RESEARCH AND THERAPY**  
*Theme : Education and Research towards Tumor Eradication*

**CERTIFICATE**

THIS CERTIFICATE IS AWARDED TO

◆ Prof. PRAGATHI S ◆

◆ Paavai Engineering College (Autonomous) ◆

Has participated / Presented / Evaluated in the Global Colloquium on Oncology Research and Therapy - Virtually / Physically organised by the Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli, held on 11 & 12 February 2023.

Dr. S. Latha  
Convener

Dr. P. Selvamani  
Convener

Dr. A. Puratchikody  
Prof & HOD

Dr. T. Senthilkumar  
Prof & Dean



**K.S.RANGASAMY COLLEGE OF TECHNOLOGY**

(Autonomous)

Tiruchengode -637 215 Namakkal Dt. Tamil Nadu



Event Partner



## Certificate of Participation

This certificate is presented to

**Pragathi S**

**Paaval Engineering College**

for participating in the **Workshop** on **Bioconversion Strategies**

in the National Level Techno Fest "Dakshaa T23" held during March 23-24, 2023



Date: 23.03.2023

Certificate ID: KSRC10323CTDKSC001

**Dr. G. Vennila**  
Convener

**Dr. R. Gopalakrishnan**  
Principal



# DAVANGERE UNIVERSITY



DEPARTMENT OF STUDIES IN  
BOTANY, SHIVAGANGOTRI, DAVANGERE-577007



## CERTIFICATE

This is to certify that Shri/Smt/Miss/Mrs/Dr ASIWARYA P S, PAAVAI ENGINEERING COLLEGE ,has participated in **DU-BOT-KSTA SPONSORED TWO DAYS NATIONAL VIRTUAL LECTURE WORKSHOP ON “RECENT ADVANCES IN LIFE SCIENCE”** Held on 13th to 14th September 2022 successfully

Dr, Thippeswamy M  
**Co-Ordinator**

Dr, D Kotresha  
**Convenor**

Prof B.D Kumbar  
**Honble, Voice-chancellor**



# DAVANGERE UNIVERSITY



DEPARTMENT OF STUDIES IN  
BOTANY, SHIVAGANGOTRI, DAVANGERE-577007



## CERTIFICATE

This is to certify that Shri/Smt/Miss/Mrs/Dr ARYA P H, PAAVAI ENGINEERING COLLEGE ,has participated in **DU-BOT-KSTA SPONSORED TWO DAYS NATIONAL VIRTUAL LECTURE WORKSHOP ON “RECENT ADVANCES IN LIFE SCIENCE”** Held on 13th to 14th September 2022 successfully

Dr, Thippeswamy M  
**Co-Ordinator**

Dr, D Kotresha  
**Convenor**

Prof B.D Kumbar  
**Honble, Voice-chancellor**



# DAVANGERE UNIVERSITY



DEPARTMENT OF STUDIES IN  
BOTANY, SHIVAGANGOTRI, DAVANGERE-577007



## CERTIFICATE

This is to certify that Shri/Smt/Miss/Mrs/Dr ANITA S, PAAVAI ENGINEERING COLLEGE ,has participated in **DU-BOT-KSTA SPONSORED TWO DAYS NATIONAL VIRTUAL LECTURE WORKSHOP ON “RECENT ADVANCES IN LIFE SCIENCE”** Held on 13th to 14th September 2022 successfully

Dr, Thippeswamy M  
**Co-Ordinator**

Dr, D Kotresha  
**Convenor**

Prof B.D Kumbar  
**Honble, Voice-chancellor**



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**K SHARMILA DEVI**

for successfully completing the course

## Safety in Construction

with a consolidated score of **65** %

Online Assignments	22.33/25	Proctored Exam	42.86/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1626**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairperson,

Centre for Outreach and Digital Education, IITM

Jan-Mar 2023

(8 week course)

*Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras

PAVAI ENGINEERING COLLEGE  
40-T, PAVAI, PULIYANDI, CHENNAI 600 075

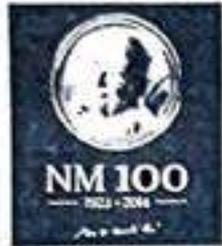


Id No: NPTEL23CE42S4S260533

To validate the certificate



No. of credits recommended: 2 or 3



**MOET** **DR. MAHALINGAM**  
COLLEGE OF ENGINEERING AND TECHNOLOGY

Udumalai Road, Pollachi, Coimbatore District 642003

Estd. 1998 | AICTE Approved | Affiliated to Anna University

An Autonomous Institution



**NAAC A++ GRADE**  
Cycle 2 (2018-2023)  
The Highest Grade



**Department of Civil Engineering**  
**Two-Days Seminar on**  
**"Fundamentals and Applications of Textile Reinforced**  
**Concrete Construction in India"**



*Sponsored by*  
**Indian National Science Academy, New Delhi**

*This is to certify that Mr. / Ms. ...SHARMILADEVI...K., ASSISTANT... PROFESSOR.....of*  
*...PAVAI... ENGINEERING... COLLEGE..., NAMAKKAL.....has participated*  
*in the Two-Days Seminar on "Fundamentals and Applications of Textile Reinforced Concrete Construction in*  
*India" Sponsored by "Indian National Science Academy", New Delhi held on 28<sup>th</sup> & 29<sup>th</sup> October 2022, organised by*  
*the Department of Civil Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi.*

Coordinator  
Mrs. S. Suthaviji  
Assistant Professor / CE

Head of the Department  
Dr. K. Murali  
Professor & Head / CE

Principal



PAVAI ENGINEERING COLLEGE  
NAMAKKAL  
28/10/2022



**M.KUMARASAMY**  
**COLLEGE OF ENGINEERING**  
 NAAC Accredited Autonomous Institution  
 Approved by AICTE & Affiliated to Anna University  
 ISO 9001:2015 & ISO 14001:2015 Certified Institution  
 Thalavapalayam, Karur - 639 113.



# CERTIFICATE OF EXCELLENCE

International Conference on  
**Advances in Mechanical & Civil Engineering**  
**(ICAMCE 2023)**

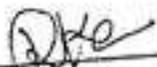
17<sup>th</sup> MARCH 2023

This is to proudly be awarded that

Shri/Smt/Km/Dr. SHARMILADEVI K

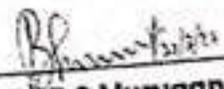
of Paavai Engineering College, Namakkal has actively participated and presented his/her paper entitled  
"Influence of Kenaf Fiber in Concrete Strength Properties" in the INTERNATIONAL CONFERENCE ON ADVANCES  
 IN MECHANICAL & CIVIL ENGINEERING (Hybrid mode) held at M.Kumarasamy College of Engineering, Karur,  
 Tamil Nadu, India - 639113.

  
 Mr. G. Balaji  
 Coordinator / Civil

  
 Dr. R. Kamalakannan  
 Coordinator / Mech

  
 Dr. V. Senthilkumar  
 Convener / Civil

  
 Dr. M. Mohan Prasad  
 Convener / Mech

  
 Dr. B. S. Murugan  
 Principal

PRINCIPAL  
 ENGINEERING COLLEGE  
 TALAVAPALAYAM, NAMAKKAL DISTRICT



**M.KUMARASAMY**  
**COLLEGE OF ENGINEERING**  
NAAC Accredited Autonomous Institution  
Approved by AICTE & Affiliated to Anna University  
ISO 9001:2015 & ISO 14001:2015 Certified Institution  
Thalavapalayam, Karur - 639 113.



## **CERTIFICATE OF EXCELLENCE**

International Conference on  
**Advances in Mechanical & Civil Engineering**  
**(ICAMCE 2023)**

17<sup>th</sup> MARCH 2023

This is to proudly be awarded that

Shri/Smt/Km/Dr. SHARMILADEVI K

of Paavai Engineering College, Namakkal has actively participated and presented his/her paper entitled "Enhancing Concrete Strength Properties with Steel Fibers and Fly-ash Additives" in the INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL & CIVIL ENGINEERING (Hybrid mode) held at M.Kumarasamy College of Engineering, Karur, Tamil Nadu, India - 639113.

**Mr.G.Balaji**  
Coordinator / Civil

**Dr.R.Kamalakannan**  
Coordinator / Mech

**Dr.V.Senthilkumar**  
Convener / Civil

**Dr.M.Mohan Prasad**  
Convener / Mech

**Dr.B.S.Murugan**  
Principal

PRINCIPAL

ENGINEERING COLLEGE

11-7, PACHAL POST, NAMAKKAL DISTRICT



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

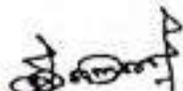
International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)  
17<sup>th</sup> March 2023

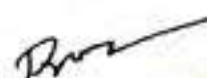
## CERTIFICATE OF PARTICIPATION

This is to certify that

**Prof.K.Sharmiladevi**  
Paavai Engineering College  
Presented a paper entitled

"Experimental Investigation of concrete adding chicken feather as fibre and Cashew nut shell powder as partial cement replacement"  
In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

PRINCIPAL

PAAVAI ENGINEERING COLLEGE  
NH-44, PACHAL, Dist. NAMAKKAL Dis.

  
Director-Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Rajeswari S**

Paavai Engineering College

Presented a paper entitled

**"Study on Beams Reinforced With FRP Bars"**

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
Director-Admin

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-44, PACHAL Post, NAMAKKAL, Dis:



**Kongunadu**

College of Engineering & Technology  
[Autonomous]

Approved by AICTE | Affiliated to Anna University | Accredited by NBA (CSE, ECE, EEE & MECH)  
Accredited by NAAC | Recognized by UGC with 2(f) & 12(B) and ISO 9001:2015 Certified Institution

Tholurpatti, Thottiam, Tiruchirappalli-621 215.

**DEPARTMENT OF CIVIL ENGINEERING**

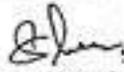
4th National Conference on  
**RECENT ADVANCEMENTS IN CIVIL ENGINEERING - RACE'23**

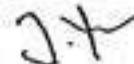
**Certificate of Participation**

Dr.Mr.Ms. S.Rajaswari of  
Paavai Engineering College has participated

in the 4th National Conference on "RECENT ADVANCEMENTS IN CIVIL  
ENGINEERING - RACE'23" held on 15.04.2023 at Kongunadu College of  
Engineering and Technology [Autonomous], Trichy, Tamilnadu, India.

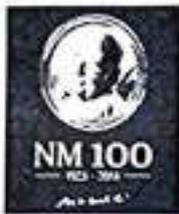
He/She also presented a paper entitled An Experimental  
Investigation on Concrete by using Glass Powder and Fly-ash as Partial Replacement for Cement

  
Dr. S.Kavipriya  
HOD/CIVIL

  
Dr. J.Yogapriya  
Dean (R&D)

  
Dr. R.Asokan  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist



**M****ET** **DR. MAHALINGAM**  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
Udumalai Road, Pollachi, Coimbatore District 642003

Estd. 1998 | AICTE Approved | Affiliated to Anna University

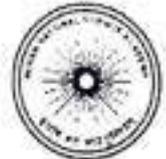
An Autonomous Institution



NAAC A++ GRADE  
Cycle 2 (2018-2023)  
The Highest Grade



Department of Civil Engineering  
Two-Days Seminar on  
"Fundamentals and Applications of Textile Reinforced  
Concrete Construction in India"



Sponsored by  
Indian National Science Academy, New Delhi

This is to certify that Mr. / Ms. GAYATHRI S., ASSISTANT PROFESSOR.....of  
PAVAI ENGINEERING COLLEGE, NAMAKKAL.....has participated  
in the Two-Days Seminar on "Fundamentals and Applications of Textile Reinforced Concrete Construction in  
India" Sponsored by "Indian National Science Academy", New Delhi held on 28<sup>th</sup> & 29<sup>th</sup> October 2022, organised by  
the Department of Civil Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi.

Coordinator  
Mrs. S. Suthaviji  
Assistant Professor / CE

Head of the Department  
Dr. K. Murali  
Professor & Head / CE

Principal

 NIA

  
PAVAI ENGINEERING COLLEGE  
NAMAKKAL  
11-7-2022



**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**MURUGESAN D**

for successfully completing the course



## Introduction to Soft Computing

with a consolidated score of **84** %

Online Assignments	19.63/25	Proctored Exam	64.28/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1105**

Jan-Mar 2023

(8 week course)

PRINCIPAL

MAHAVI ENGINEERING COLLEGE  
JH-7, PACHAL Post, NAMAKKAL Dist

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**MURUGESAN D**  
for successfully completing the course



## DC Microgrid and Control Systems

with a consolidated score of **86** %

Online Assignments	18.75/25	Proctored Exam	67.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 159

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jul-Sep 2022

(8 week course)

AVAI ENGINEERING COLLEGE  
H-7, PACHAL POUL, NAMAKKAL Dis

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL22EE81513780359

To validate the certificate



No. of credits recommended: 2 or 3



# ICCSEA-2022



Organised by  
Department of Computer Science and Engineering,  
GIET University, Gunupur

## Certificate

This is certified that Mr./ Ms./Prof./Dr. Murugesan D

affiliated to Paavai Engineering College has participated in the "2<sup>nd</sup> International Conference on Computer Science Engineering and Applications"(ICCSEA-2022) held at GIET University, India on 8<sup>th</sup> September 2022. He also Presented a paper/ Delivered a keynote talk/ Co-ordinated / Organised / Chaired on Technical Session Titled Cohort intelligence optimization based controller design of isolated and interconnected thermal power system for automatic generation control

Conference Chair

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
H-7 PACHAL Post, NAMAKKAL Dist

General Chair





International Research Institute of Multidisciplinary Engineering & Technology

# CERTIFICATE OF PRESENTATION

This certificate is presented to

**Mrs. S PRAVEENA**

“Assistant Professor, Department of Medical Electronics, PAAVAI ENGINEERING COLLEGE, Tamil Nadu”

**The Virtual International Conference on Recent Trends in Emerging Technologies and Engineering -  
ICRTETE - 2023 Date: 09-April-2023**

Organized by

International Research Institute of Multidisciplinary Engineering and Technology, Visakhapatnam

Paper Title: **EAR EEG RECORDING SYSTEM BASED ON DRY CONTACT ELECTRODE**

Authors: **J JAYAVARSHINI, R RAGAVI, L NIDHARSHANA, M ATCHAYA, Mrs. S PRAVEENA**

General Chair

Dr. S. Swarnalatha

SVUCE

Session Chair

Dr. S. Nagaraju

Scrinivasa Ramanujan Institute of Technology

keynote speaker

Dr. Abhay Bhatia

Roorkee Institute of Technology

ISBN-13: 979-8-390-777-114

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
4H-7 PACHAL Post, NARAIKAL Dis:

(Google Meet: [meet.google.com/ess-cuvj-ezd](https://meet.google.com/ess-cuvj-ezd))



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**M MAHESWARI**

for successfully completing the course

**Cloud Computing**

with a consolidated score of **63** %

Online Assignments	25/25	Proctored Exam	37.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course:16686

Jul-Oct 2023  
(12 week course)

PRINCIPAL

MAAYI ENGINEERING COLLEGE

**Prof. Haimanti Banerji**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS89S54600033

To verify the certificate



No. of credits recommended: 3 or 4



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SENTHILVELAN SAMBAMOORTHY**  
for successfully completing the course



**Programming in Java**

with a consolidated score of **77 %**

Online Assignments	24.88/25	Proctored Exam	5176/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 11713

Jul-Oct 2023  
(12 week course)

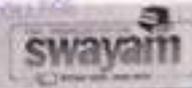
PRINCIPAL

Prof. Kaimati Banerji  
Coordinator, NPTEL  
at Kharagpur



Indian Institute of Technology Kharagpur

DEPARTMENT OF DISTANCE EDUCATION  
NPTEL, IIT Kharagpur



Ref No. NPTEL23CE74574600040

To verify the certificate



No. of grades recommended: 3 or 4



DEPARTMENT OF  
ARTIFICIAL INTELLIGENCE &  
DATA SCIENCE

In association with



# CERTIFICATE OF PARTICIPATION

This is to certify that

Dr./Prof./Mr./Ms. Dr. V. ANNAPOORANI

of Paavai Engineering College (Autonomous)

has participated in the Faculty Development Program on

"Hands-on Training on Data Science Tools" in association with ISTE

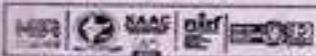
held from 23<sup>rd</sup> to 28<sup>th</sup> January 2023



Sai

## SAIRAM ENGINEERING COLLEGE

An Autonomous Institution  
West Tambaram, Chennai - 44  
[www.sairam.edu.in](http://www.sairam.edu.in)



Program

*Swagata Sarker*

Dr. Swagata Sarker  
HO/IAS&OS

*Dr. K. Parkumaran*

Dr. K. Parkumaran  
Principal

*Dr. Sai Prakash LeoNuthu*

Dr. Sai Prakash LeoNuthu  
Chairman & CEO,  
Sairam Institutions



PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
343, PAVAI, WEST TAMBARAM T.N.



# SPHOORTHY ENGINEERING COLLEGE

(Permanently Affiliated to JNTUH, NAAC Accredited, Recognised By UGC, ISO 9001:2015 Certified)  
Nadergul Village, Saroornagar Mandal, Hyderabad, Telangana 501510, India

## CERTIFICATE OF EXCELLENCE IN CYBER SECURITY

This is to Certify that Mr./Ms./Dr. Mr.C. RATHNAKUMAR  
of Paavai Engineering College College, has participated in One  
Week National Level faculty development program on "Cyber Security, Digital Forensics and  
Penetration Testing".

Conducted From 26th Dec - 31st Dec, 2022



HOD

Prof. M. Swarnalatha

DEAN

Dr. B.V. KANNAN

DIRECTOR & PRINCIPAL  
Dr. M.V.S. RAM PRASAD

SECRETARY

S. JAGAN MOHAN REDDY

**Sairam**  
ENGINEERING COLLEGE



DEPARTMENT OF  
**ARTIFICIAL INTELLIGENCE &  
DATA SCIENCE**

An association with



# CERTIFICATE OF PARTICIPATION

This is to certify that

Dr./Prof./Mr./Ms. \_\_\_\_\_

**Mrs.M. GEETHA**

of **Paavai Engineering College ( Autonomous)**

has participated in the Faculty Development Program on

"Hands-on Training on Data Science Tools" in association with ISTE

held from 23<sup>rd</sup> to 26<sup>th</sup> January 2023

*Swagata Sarkar*

Dr. Swagata Sarkar  
HOODMOS

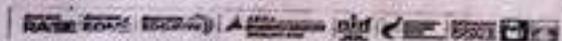
*Dr. K. Parkumaran*

Dr. K. Parkumaran  
Principal

*Dr. Sai Prakash LeoMuthu*

Dr. Sai Prakash LeoMuthu  
Chairman & CEO  
Sairam Institutions

instagram



*[Signature]*  
PRINCIPAL,  
PAVAI ENGINEERING COLLEGE  
947 TIRUPATI ROAD, MADURAI - 625 004

Scanned with ACE Scanner



# IOT Academy

MSME Registration No: UDYAM-TN-03-01015425  
Regt. No. : FR/CBE/709/2021  
Coimbatore, Tamilnadu, India  
[www.iotacademy.in](http://www.iotacademy.in)

## Certificate of Participation

This is to certify that

**Mrs.R. DEEPIKA**

Assistant Professor, Department of Information Technology

Paavai Engineering College, Namakkal, Tamil Nadu

has participated in the 7 Days National Level Faculty Development Program on

**Advanced Teaching Skills**

organized from 24th to 31st May, 2023.

Mr. B. Subbaraj  
Coordinator

Mrs. Anitha  
Convener

Mrs. Jayalakshmi  
Director, IOTD

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
947 8122128, 8550077, TN

Original Certificate



Issued on 31/05/2023

Scanned with ACE Scanner

7 Days Faculty Development Program

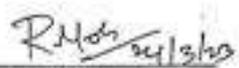


NEW HORIZON  
COLLEGE OF ENGINEERING

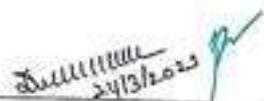
# CERTIFICATE OF APPRECIATION

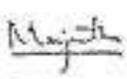
This is to certify that

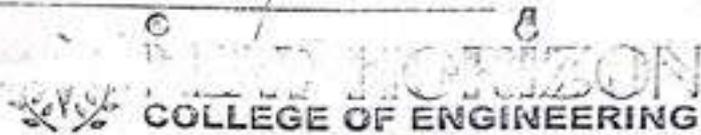
Dr. D.R.P. RATARATHNAM ; PROFESSOR/IOCT, PARVATI ENGINEERING COLLEGE  
has participated in the workshop on "RECENT TRENDS IN ENERGY STORAGE  
AND ELECTRIC VEHICLES TECHNOLOGIES" organized by Department of  
Electrical and Electronics Engineering, New Horizon College of Engineering  
Bengaluru from March 20-24th, 2023

  
Dr. R. Mohandas  
Associate Professor/EEE

  
Mr. Vinod Kumar S  
Senior Assistant Professor/EEE

  
Dr. Sujitha  
HoD/EEE  
1107, PACHAL Post, NANJANGAL

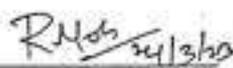
  
Dr. Manjunatha  
Principal



# CERTIFICATE OF APPRECIATION

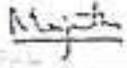
This is to certify that

Dr. R.T. AJAYKARTHIK, PROFESSOR / NOCT PAAVAI ENGINEERING COLLEGE  
has participated in the workshop on "RECENT TRENDS IN ENERGY STORAGE  
AND ELECTRIC VEHICLES TECHNOLOGIES" organized by Department of  
Electrical and Electronics Engineering, New Horizon College of Engineering  
Bengaluru from March 20-24th, 2023

  
Dr. R. Mohandas  
Associate Professor/EEE

  
Mr. Vinod Kumar S  
Senior Assistant Professor/EEE

  
Dr. Sujith  
HOD/EEE  
24/3/2023

  
Dr. Manjunatha  
Principal



KONGU  
ENGINEERING COLLEGE  
Perundurai, Erode - 638 060

ROBOTICS CLUB

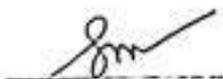
# CERTIFICATE

OF ACCOMPLISHMENT

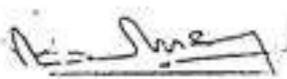
This is to certify that Mr/Ms

Mr. S. MANIKANDAN, AP / MECHATRONICS

from PAVAI ENGINEERING COLLEGE has participated  
in ROBOTICS MANIPULATOR workshop held during  
Expelliarmus'23 conducted by Robotics Club of KEC at  
Kongu Engineering College, Perundurai, Erode on 18th  
March, 2023

  
Faculty Co-ordinator

  
CCO/SA

  
Principal



PAVAI ENGINEERING COLLEGE  
No.7, PACHAL Post, NAMAKKAL



## CERTIFICATE OF APPRECIATION

This is to certify that

Mr. R. ARUNBABU, AP/MECHATRONICS, PAAVATI ENGINEERING COLLEGE  
has participated in the workshop on "RECENT TRENDS IN ENERGY STORAGE  
AND ELECTRIC VEHICLES TECHNOLOGIES" organized by Department of  
Electrical and Electronics Engineering, New Horizon College of Engineering  
Bengaluru from March 20-24th, 2023

Dr. R. Mohandas  
Associate Professor/EEE

Mr. Vinod Kumar S  
Senior Assistant Professor/EEE

  
24/3/2023

PRINCIPAL  
Dr. SATHISH ENGINEERING COLLEGE  
HOLY CROSS, CHAL Post, NANJANUR  
Dr. Manjunatha  
Principal



KONGU  
ENGINEERING COLLEGE  
Perundurai, Erode - 638 060

ROBOTICS CLUB

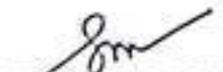
# CERTIFICATE

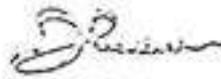
OF ACCOMPLISHMENT

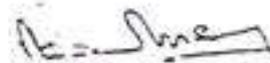
This is to certify that Mr/Ms

Ms. C. SUMITHRA, AP/MECHATRONICS

from PAAVAI ENGINEERING COLLEGE has participated  
in ROBOTICS MANIPULATOR workshop held during  
Expelliarmus'23 conducted by Robotics Club of KEC at  
Kongu Engineering College, Perundurai, Erode on 18th  
March, 2023.

  
Faculty Co-ordinator

  
CCO/SA

  
Principal



  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
314-7, PACHAL Post, NAMAKKAL

Department of  
**Engineering**



OPR Institute of  
Engineering and  
Technology  
(Autonomous, NAAC "A")

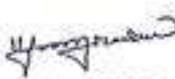
## Certificate of Participation

This is to certify that

Mr. C. VIBINSTALIN, A.P/MECHATRONICS

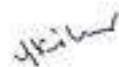
of PAVAI ENGINEERING COLLEGE

has participated in a workshop on "3D PRINTING & 3D SCANNING"  
organized by Continuing Education Programme in Association with Department of  
Mechanical Engineering on 04<sup>th</sup> November, 2022.

  
Head/CEP

  
Head/MECH

  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMANGAL Dist.

  
Principal



PSG Institute of Technology and Applied Research  
Neelambur, Coimbatore - 641062

YUKTA  
2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**S.DHINAKAR**

of Paavai Engineering College has participated in the workshop on Auto drive - a leap into autonomous driving conducted during Yukta:2023 on 20.03.2023 and 21.03.2023

Head of the Department

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
1047, PACHAL Post, NAKKHVAL Dist

Principal



PSG Institute of Technology and Applied Research  
Neelambur, Coimbatore - 641062

YUKTA  
2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**C.RAVIKUMAR**

of Paavai Engineering College has participated in the workshop on Auto drive - a leap into autonomous driving conducted during Yukta:2023 on 20.03.2023 and 21.03.2023

Head of the Department

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
90M-7, PACHAL Post, NAMAKKAL Dist

Principal



KSHITIJ  
K. J. Somaiya Institute of  
Technology



TECHMAGHI

## CERTIFICATE

This is to certify that

**VETRISELVAN.M**

of

**PAAVAI ENGINEERING COLLEGE**

has attended the one-day workshop on Self Driving Electric Vehicles organised by  
Techmaghi in association with KSHITIJ, IIT KHARAGPUR on 28<sup>th</sup> January 2023.

28-01-2023

Date



Deepak Rajan  
Founder & CEO  
Techmaghi

Recognized by



#startupindia



PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
A-17, PACHARPEETAHANKAL DIST



KSHITIJ



TECHMAGHI

# CERTIFICATE

This is to certify that

**RAJASEKAR.S**

of

**PAAVAI ENGINEERING COLLEGE**

has attended the one-day workshop on Self Driving Electric Vehicles organised by  
Techmaghi in association with KSHITIJ, IIT KHARAGPUR on 28<sup>th</sup> January 2023.

28-01-2023

Date



Deepak Rajan  
Founder & CEO  
Techmaghi

Recognized by



#startupindia



PAVAI ENGINEERING COLLEGE  
8867, PACHAL Post, MAJAJUKAL Dist

Department of  
Engineering



Learn Beyond

Panna Institute of  
Technology  
(Autonomous, NAAC 'A')

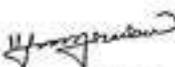
## Certificate of Participation

This is to certify that

M.S. T. PARKAVI, A.P./MECHATRONICS

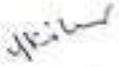
of PANNA ENGINEERING COLLEGE.

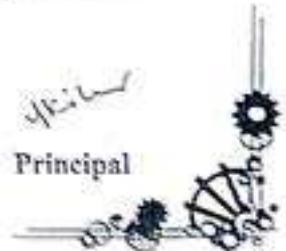
has participated in a workshop on "3D PRINTING & 3D SCANNING"  
organized by Continuing Education Programme in Association with Department of  
Mechanical Engineering on 04<sup>th</sup> November, 2022.

  
Head/CEP

  
Head/MECH

  
PRINCIPAL  
PANNA ENGINEERING COLLEGE  
3047, PACHAL Post, RAMNAGRA DIV.

  
Principal



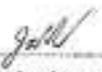


**DEPARTMENT OF ENGLISH**  
St. Joseph's College (Autonomous)  
Tiruchirappalli, Tamilnadu, India

**CERTIFICATE**

This is to certify that Dr./Mr./Ms. **R.Shanthi** from Paavai Engineering College (Autonomous) Namakkal successfully completed A One Day State Level Workshop on *A Dynamic Approach to Language Teaching* organised by the Department of English, St. Joseph's College (Autonomous), Tiruchirappalli on 08.03.2023.

  
Dr. D. Loyola Inayat  
Coordinator, Department of English

  
Dr. V. Jayapaul  
Head, Department of English

  
Rev. Dr. M. Arackkalam Xavier S.J.  
Principal

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
M-7, PACHAL POCKET, NAMAKKAL DIST.



**DEPARTMENT OF ENGLISH**  
St. Joseph's College (Autonomous)  
Tiruchirappalli, Tamilnadu, India

**CERTIFICATE**

This is to certify that Dr./Mr./Ms. **R. Saranya** from Paavai Engineering College (Autonomous) Namakkal successfully completed A One Day State Level Workshop on *A Dynamic Approach to Literature Teaching* organised by the Department of English, St. Joseph's College (Autonomous), Tiruchirappalli on 08.03.2023.

  
Dr. D. Loyola Innes  
Coordinator, Department of English

  
Dr. V. Jayapaul  
Head, Department of English

  
Rev. Dr. M. Arachisamy Nasser S.J.  
Principal

  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
ENT. PACHAL POOL, NAMAKKAL, TN.

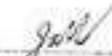


**DEPARTMENT OF ENGLISH**  
St. Joseph's College (Autonomous)  
Tiruchirappalli, Tamilnadu, India

**CERTIFICATE**

This is to certify that Dr./Mr./Ms. M.E.Hariharan from Paavai Engineering College (Autonomous) Namakkal successfully completed A One Day State Level Workshop on *A Dynamic Approach to Language Teaching* organised by the Department of English, St. Joseph's College (Autonomous), Tiruchirappalli on 08.03.2023.

  
Dr. D. Leyala Innae  
Coordinator, Department of English

  
Dr. V.L. Jayapant  
Head, Department of English

  
Rev. Dr. M. Arasekaramy Vakkol S.J.  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE,  
94/2, PACIAL, PETA, NAMAKKAL DIST.



# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

**INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE,  
HUMANITIES AND TECHNOLOGY (ICASHT - 2023)**

## CERTIFICATE

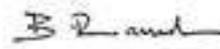
This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. R. Pradeepa, Department of Mathematics  
of Paavai Engineering College participated / presented a research paper entitled "Controllability of Fractional Stochastic neutral integro-differential equations with state dependent delay in Frechet Spaces"  
in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the  
Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105,  
Tamil Nadu, India, during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

  
Dean



  
Principal

  
Principal  
Dr. B. Hamesh

PAVAI ENGINEERING COLLEGE  
385-7, PACHAI POOL, THANDALAM DIST.



NAAC  
A++  
GRADE

26  
RANK

25  
RANK



MoE's  
INNOVATION CELL  
GOVERNMENT OF INDIA



SUSTAINABLE  
DEVELOPMENT  
GOALS



## SWAYAM ONLINE COURSE CERTIFICATION



Roll No: TN11050155

*This certificate is awarded to*

**S. RAVI**

*for successfully completing the Three credit course*

**STUDENT PSYCHOLOGY**

**July to November 2022**

*with the consolidated score of 64 %*

*in the proctored examination held on 26.02.2023*

*offered by* **Dr. S. RENUKADEVI**

*Unharagesan*

**NATIONAL  
COORDINATOR**

Director NITTTR, Chennai

*pr*  
**PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
PAVAI PACHAI, Post: PAVAI, Tal: Sivakasi**

*S. Renukadevi*

**COURSE COORDINATOR  
NITTTR, Chennai**

To validate and check scores: <http://swayam.gov.in/>, Month of Issue: May



# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

**INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE,  
HUMANITIES AND TECHNOLOGY (ICASHT - 2023)**

## CERTIFICATE

This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. S. Kavitha, Department of Physics

of Paavai Engineering College participated / presented a research paper entitled "The degradation of Methylene blue dye using Tungsten oxide with aluminium by a simple soft chemical route"

in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105, Tamil Nadu, India, during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

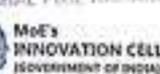
  
Convener



  
PRINCIPAL

PAAVAI ENGINEERING COLLEGE  
QUALITY PACHAL PAAL TECHNIQUE

  
Principal  
Dr. B. Ramesh





**SIMATS ENGINEERING**

Approved By AICTE | IET-UK Accreditation



## Certificate of Oral Presentation

Is here by granted to Dr / Mr / Miss / Mrs:.....*S. KAVITHA*.....

*Department of Physics, Paavai Engineering College*

For the paper

(Oral)entitled:.....*The photocatalytic degradation of methylene blue dye using individually doped tungsten oxide with indium by soft chemical route*

in the International Conference on "Innovative Green Materials for Sustainable Engineering"

(IGMSE - 2023) Organised by Division of Chemistry on 27.02.2023 & 28.02.2023

@ SIMATS Engineering, SIMATS, Thandalam, Chennai - 602 105.

*S. Raju*  
Convener

*[Signature]*  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
H.M.T. ROAD, POOTI, THANDALAM

*[Signature]*  
Principal  
Dr. R. Kamesh





# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

**INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE,  
HUMANITIES AND TECHNOLOGY (ICASHT - 2023)**

## CERTIFICATE

This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. P. Divya, Department of Physics  
of Paavai Engineering College participated & presented a research paper entitled "Facile Synthesis of  $MnO_2$  / reduced graphene oxide nanocomposites For Supercapacitor applications"

in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105, Tamil Nadu, India, during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

  
Contributor



  
PRINCIPAL

PAVAI ENGINEERING COLLEGE, Dr. B. Kamaraj  
P.O. PACHAL Post, NAMAKKAL Dt.

  
Principal



MeE's INNOVATION CELL  
GOVERNMENT OF INDIA



SUSTAINABLE  
DEVELOPMENT  
GOALS



# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

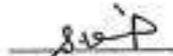
**INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE,  
HUMANITIES AND TECHNOLOGY (ICASHT – 2023)**

## CERTIFICATE

This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. Gr. Raja Department of Chemistry  
of Paavai Engineering College participated / presented a research paper entitled "Evaluation of the inhibitive effect of some plant extracts on the acid corrosion of mild steel."

in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105, Tamil Nadu, India, during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

  
Convener



  
Principal  
Dr. B. Ramesh





# SIMATS SCHOOL OF ENGINEERING

Approved By AICTE | IET-UK Accreditation

**INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE,  
HUMANITIES AND TECHNOLOGY (ICASHT – 2023)**

## CERTIFICATE

This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. Dr. Dhanobalan, Department of Chemistry  
of Paavai Engineering College, participated / presented a research paper entitled "Evaluation of the inhibitive effect of some plant extracts on the acid corrosion of steel"

in the International Conference on Advances in Science, Humanities and Technology (ICASHT-2023) organized by the Department of Materials Physics, SIMATS School of Engineering, SIMATS, Thandalam, Chennai - 602 105, Tamil Nadu, India, during 9<sup>th</sup> - 10<sup>th</sup> January 2023.

  
Convener



  
PRINCIPAL  
SIMATS SCHOOL OF ENGINEERING  
THANDALAM, CHENNAI - 602 105

  
Principal  
Dr. B. Ramesh





# SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

RAMAPURAM CAMPUS  
CHENNAI, TAMIL NADU, INDIA-600 089

## Department of Mechanical Engineering CERTIFICATE OF PARTICIPATION

This is to certify that Dr. **ARRAVIND R, Paavai engineering college, Namakkal, Tamil Nadu, India** has presented a paper titled **HUMMER BOT FOR ASSISTANCE IN AIRCRAFT** with paper Id **AIIMS 2.0 - IS - 003** at 2<sup>nd</sup> International Conference on "**Advanced Intelligence and Innovations in Mechanical Sciences (AIIMS - 2.0)**" organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai-89, held during 20<sup>th</sup> & 21<sup>st</sup> April 2023.

**Dr. S. Vigneshwaran**  
Session Chair

**Dr.T.Vinoth**  
Coordinator

**Dr. G.Prabhakaran**  
Convenor

**Dr. M.Murali Krishna**  
Dean (E&T)

Certificate No- SRMISTRMPMECHAIIMS2.0-IS-003  
THIS IS A SYSTEM GENERATED CERTIFICATE. NO SIGNATURE IS REQUIRED





# 11th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2023

ORGANIZED BY  
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET), CHENNAI, INDIA.

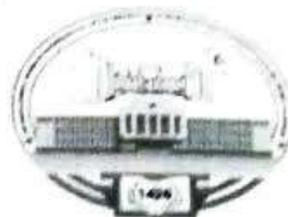
IN COLLABORATION WITH

**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..... **R.ARRAVIND**

**Paavai Engineering College, Namakkal**

from

..... has presented a paper titled  
**DESIGN AND FABRICATION OF AN AUTONOMOUS UNMANNED AERIAL VEHICLE FOR FIRE FIGHTING OPERATIONS**

..... in the "11th International  
Conference on Contemporary Engineering and Technology 2023" held on 1<sup>st</sup> & 2<sup>nd</sup> May 2023.

**Dr. Akhatov Akmal Rustamovich**  
Vice Rector of International Affairs,  
Samarkand State University, Uzbekistan

**Dr. Christo Ananth**  
Professor,  
Samarkand State University, Uzbekistan

**Dr. P. Aravinthan, M.E., Ph.D.**  
Technical Lead, OSIET  
Secretary

**Prof. A. Krishnamoorthy, M.E., Ph.D.**  
Technical Lead, OSIET  
Administrator

**K. Janani, M.Tech.**  
CEO, OSIET  
Director

# 12th INTERNATIONAL CONFERENCE ON SCIENCE AND INNOVATIVE ENGINEERING 2022

ORGANIZED BY

ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY, CHENNAI

IN ASSOCIATION WITH



## JAWAHAR ENGINEERING COLLEGE, CHENNAI



### Certificate of Presentation

This is to certify that Dr./Mr./Ms. Dr.R.Arravind from  
Paavai Engineering College, Namakkal has presented a  
paper titled EXPERIMENTAL STUDY OF UAV FOR PRECISE OBSTACLE TRACKING AND DETECTION  
in the "12<sup>th</sup> International Conference on Science and Innovative Engineering"  
held on 5<sup>th</sup> June 2022.

  
Dr. A. Krishnamoorthy  
Technical Lead, OSIET

  
P Arun Srinivas  
Advisor-ICSIE

# INTERNATIONAL CONFERENCE ON INNOVATION, CREATIVITY AND COMPUTING APPLICATIONS IN ENGINEERING, PHARMACY, ARCHITECTURE AND MANAGEMENT ICICAEPHAM 2023



ORGANIZED BY

NEHRU GROUP OF INSTITUTIONS - KERALA

Nehru College of Engineering and Research Centre (NCERC) Nehru College of Pharmacy (NCP)  
Jawaharlal College of Engineering and Technology (JCET) Nehru College of Architecture (NCA)

IN ASSOCIATION WITH

ORGANISATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET)

Chennai, Tamil Nadu, India

IN COLLABORATION WITH

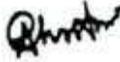
SAMARKAND STATE UNIVERSITY, UZBEKISTAN

Certificate of Presentation

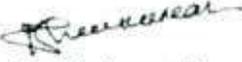


This is to certify that Mr. / Ms. / Mrs. / Dr ..... **D. DEEPAK** ..... from  
..... **PAAVAI ENGINEERING COLLEGE, Namakkal** ..... has presented a paper titled  
**AN EXPERIMENTAL INVESTIGATION OF DESIGN AND FABRICATION OF QUADCOPTER FRAME WITH 3D PRINTING  
TECHNOLOGY FOR ENCHANCED FLIGHT PERFORMANCE**  
..... in the "International Conference on  
Innovation, Creativity and Computing Applications in Engineering, Pharmacy, Architecture and Management – ICICAEPHAM 2023" held during 27th - 29th  
April 2023 and at Jawaharlal College of Engineering and Technology, Palakkad, Kerala.

  
**Dr. Akhatov Akmal Rustamovich**  
Vice Rector - International Affairs  
SAMARKAND STATE UNIVERSITY  
UZBEKISTAN

  
**Dr. Christo Ananth**  
Professor  
SAMARKAND STATE UNIVERSITY  
UZBEKISTAN

  
**K. Janani**  
CEO, OSIET

  
**Dr. Sivakumar K**  
Convener - ICICAEPHAM

  
**Dr. N. Gunasekaran**  
Principal, JCET

First National Conference on  
Innovative Smart Technologies in Engineering and  
Management Sciences

**I-STEMS 2023**

# Certificate of Participation

Presented to

\*\*\* Dr. D. DEEPAK B.E. AERO

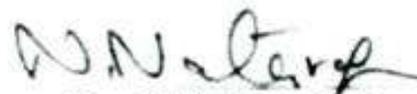
PAVAI ENGINEERING COLLEGE

for presenting a paper entitled

ENHANCING AIRCRAFT STABILITY THROUGH THE  
REDESIGN AND ASSESSMENT OF MODIFIED WINGS

in the Conference held during

April 06, 2023

  
Dr. N. Natarajan  
Convener



Dr. K. Bommanna Raja  
Principal

# INTERNATIONAL CONFERENCE ON INNOVATION, CREATIVITY AND COMPUTING APPLICATIONS IN ENGINEERING, PHARMACY, ARCHITECTURE AND MANAGEMENT ICICAEPHAM 2023

ORGANIZED BY

NEHRU GROUP OF INSTITUTIONS – KERALA

Nehru College of Engineering and Research Centre (NCERC) Nehru College of Pharmacy (NCP)  
Jawaharlal College of Engineering and Technology (JCET) Nehru College of Architecture (NCA)

IN ASSOCIATION WITH

ORGANISATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET)  
Chennai, Tamil Nadu, India

IN COLLABORATION WITH

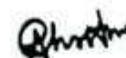
SAMARKAND STATE UNIVERSITY, UZBEKISTAN

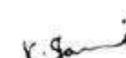
Certificate of Presentation

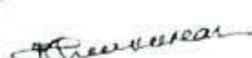


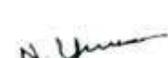
This is to certify that Mr. / Ms. / Mrs. / Dr ..... **K.GOKULNATH** .....from  
..... **PAAVAI ENGINEERING COLLEGE, Namakkal** ..... has presented a paper titled  
**STATIC ANALYSIS AND OPTIMIZATION OF DRAG STRUT IN NOSE LANDING GEAR FOR 500-SEATER PASSENGER AIRCRAFT**  
..... in the "International Conference on  
Innovation, Creativity and Computing Applications in Engineering, Pharmacy, Architecture and Management – ICICAEPHAM 2023" held during 27th - 29th  
April 2023 and at Jawaharlal College of Engineering and Technology, Palakkad, Kerala.

  
**Dr. Akhatov Akmal Rustamovich**  
Vice Rector – International Affairs  
SAMARKAND STATE UNIVERSITY  
UZBEKISTAN

  
**Dr. Christo Ananth**  
Professor  
SAMARKAND STATE UNIVERSITY  
UZBEKISTAN

  
**K. Janani**  
CEO, OSIET

  
**Dr. Sivakumar K**  
Convener – ICICAEPHAM

  
**Dr. N. Gunasekaran**  
Principal, JCET



# 11th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2023



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.* **K.Gokulnath** ..... from  
**Paavai Engineering College**

..... has presented a paper titled  
**Technical Design and advanced Manufacturing Of NACA 2415 Airfoil through 3D printing Technology for Racing car Fin**  
**Application**

..... in the "11th International  
*Conference on Contemporary Engineering and Technology 2023*" held on 1<sup>st</sup> & 2<sup>nd</sup> May 2023.

**Dr. Akhatov Akmal Rustamovich**  
Vice Rector of International Affairs,  
Samarkand State University, Uzbekistan

**Dr. Christo Ananth**  
Professor  
Samarkand State University, Uzbekistan

**Dr. P. Aravinthan**, M.E., Ph.D.  
Technical Lead, OSIET  
Secretary

**Prof. A. Krishnamoorthy**, M.E., Ph.D.  
Technical Lead, OSIET  
Administrator

**K. Janani**, M.Tech.  
CEO, OSIET  
Director



# 11th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2023

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. P.Prasanna from  
Paavai Engineering College

IMPLEMENTATION OF OBSTACLE AVOIDANCE DRONE USING ULTRASONIC SENSORS.

..... has presented a paper titled  
..... in the "11th International  
Conference on Contemporary Engineering and Technology 2023" held on 1<sup>st</sup> & 2<sup>nd</sup> May 2023.

**Dr. Akhatov Akmal Rustamovich**  
Vice Rector of International Affairs  
Samarkand State University, Uzbekistan

**Dr. Christo Ananth**  
Professor  
Samarkand State University, Uzbekistan

**Dr. P. Aravinthan**, M.Tech, Ph.D.  
Technical Board Member  
Secretary

**Prof. A. Krishnamoorthy**, Ph.D., M.Tech.  
Technical Board Member  
Administrator

**K. Janani**, Ph.D., M.Tech.  
Vice-OSIET  
Director

12th INTERNATIONAL CONFERENCE ON SCIENCE AND INNOVATIVE ENGINEERING 2022

ORGANIZED BY

ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY CHENNAI

IN ASSOCIATION WITH



**JAWAHAR ENGINEERING COLLEGE, CHENNAI**



## Certificate of Presentation

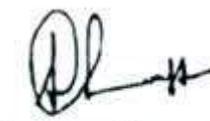
This is to certify that Dr./Mr./Ms. **Mr.K.GOKULNATH** from  
**Paavai Engineering College, Namakkal**

has presented a  
paper titled **EXPERIMENTAL STUDY AND MEASURING OF FUEL AIR MIXTURE BURNING**

**VELOCITY USING STATIONARY METHOD**

in the "12<sup>th</sup> International Conference on Science and Innovative Engineering"  
held on 5<sup>th</sup> June 2022.

  
Dr. A. Krishnamoorthy  
Technical Lead, OSJET

  
P. Arun Srinivas  
Advisor-ICSIE



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DR R ARRAVIND**

for successfully completing the course

**Aircraft Design**

with a consolidated score of **45** %

Online Assignments	15/25	Proctored Exam	30/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: 275

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

Jan-Apr 2023

(12 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23AE01S64571031

To validate the certificate



No. of credits recommended: 3 or 4



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DR R ARRAVIND**

for successfully completing the course

## Aircraft Design

with a consolidated score of **45** %

Online Assignments	15/25	Proctored Exam	30/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: 275

**Prof. B. V. Ratish Kumar**

Chairman, Centre for Continuing Education  
IIT Kanpur

Jan-Apr 2023

(12 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur

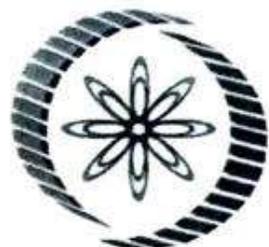


Roll No: NPTEL23AE01S64571031

To validate the certificate



No. of credits recommended: 3 or 4



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DR R ARRAVIND**

for successfully completing the course

## Product Engineering and Design Thinking

with a consolidated score of **60** %

Online Assignments	19.46/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **218**

Feb-Apr 2023

(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur

PAATHA SAMITHI  
IIT Kharagpur



Roll No: NPTEL23ME52S54571520

To validate 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*

**DR R ARRAVIND**

*for successfully completing the course*

**Aircraft Design**

*with a consolidated score of 45 %*

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jan-Apr 2023)

Roll No: NPTEL23AE01S64571031

NPTEL FACULTY DEVELOPMENT PROGRAMME

Duration of NPTEL course : 12 Weeks

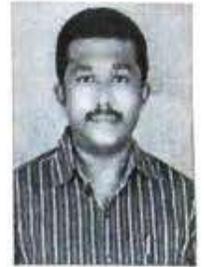
The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DR R ARRAVIND**

for successfully completing the course

## Ethics in Engineering Practice

with a consolidated score of **60** %

Online Assignments	19.13/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **3388**

Feb-Apr 2023

(8 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23MG41S44570642

To validate the certificate



No. of credits recommended: 2 or 3



# 11th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2023

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.



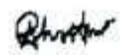
### Certificate of Presentation

This is to certify that Mr/Mrs/Dr..... **P.Karthikeyan** ..... from  
**Paavai Engineering College**

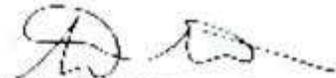
..... has presented a paper titled  
**IMPLEMENTATION OF OBSTACLE AVOIDANCE DRONE USING ULTRASONIC SENSORS.**

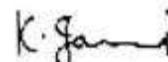
..... in the "11th International  
Conference on Contemporary Engineering and Technology 2023" held on 1<sup>st</sup> & 2<sup>nd</sup> May 2023.

  
**Dr. Akhatov Akmal Rustamovich**  
Visiting Professor, International Affair  
Samarkand State University, Uzbekistan

  
**Dr. Christo Ananth**  
Professor  
Samarkand State University, Uzbekistan

  
**Dr. P. Aravinthan**, M.Tech, Ph.D.  
Technical Lead, Global  
Secretary

  
**Prof. A. Krishnamoorthy**, M.Tech, Ph.D.  
Technical Lead, Global  
Administrator

  
**K. Janani**, M.Tech, Ph.D.  
CEO, OSIET  
Director

# INTERNATIONAL CONFERENCE ON INNOVATION, CREATIVITY AND COMPUTING APPLICATIONS IN ENGINEERING, PHARMACY, ARCHITECTURE AND MANAGEMENT ICICAEPHAM 2023



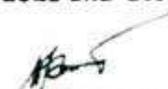
ORGANIZED BY  
NEHRU GROUP OF INSTITUTIONS - KERALA  
Nehru College of Engineering and Research Centre (NCERC) Nehru College of Pharmacy (NCP)  
Jawaharlal College of Engineering and Technology (JCET) Nehru College of Architecture (NCA)

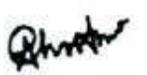


IN ASSOCIATION WITH  
ORGANISATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET)  
Chennai, Tamil Nadu, India

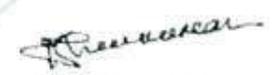
IN COLLABORATION WITH  
SAMARKAND STATE UNIVERSITY, UZBEKISTAN  
**Certificate of Presentation**

This is to certify that Mr. / Ms. / Mrs. / Dr ..... **S KRITHIGA** .....from  
..... **PAAVAI ENGINEERING COLLEGE, Namakkal** ..... has presented a paper titled  
**AN EXPERIMENTAL INVESTIGATION OF DESIGN AND FABRICATION OF QUADCOPTER FRAME WITH 3D PRINTING  
TECHNOLOGY FOR ENCHANCED FLIGHT PERFORMANCE**  
..... in the "International Conference on  
Innovation, Creativity and Computing Applications in Engineering, Pharmacy, Architecture and Management – ICICAEPHAM 2023" held during 27th - 29th  
April 2023 and at Jawaharlal College of Engineering and Technology, Palakkad, Kerala.

  
**Dr. Akhatov Akmal Rustamovich**  
Vice Rector International Affairs  
SAMARKAND STATE UNIVERSITY  
UZBEKISTAN

  
**Dr. Christo Ananth**  
Professor  
SAMARKAND STATE UNIVERSITY  
UZBEKISTAN

  
**K. Janani**  
CEO, OSIET

  
**Dr. Sivakumar K**  
Convener - ICICAEPHAM

  
**Dr. N. Gunasekaran**  
Principal, JCET

# INTERNATIONAL CONFERENCE ON INNOVATION, CREATIVITY AND COMPUTING APPLICATIONS IN ENGINEERING, PHARMACY, ARCHITECTURE AND MANAGEMENT ICICAEPHAM 2023

ORGANIZED BY

NEHRU GROUP OF INSTITUTIONS – KERALA

Nehru College of Engineering and Research Centre (NCERC) Nehru College of Pharmacy (NCP)  
Jawaharlal College of Engineering and Technology (JCET) Nehru College of Architecture (NCA)

IN ASSOCIATION WITH

ORGANISATION OF SCIENCE & INNOVATIVE ENGINEERING AND TECHNOLOGY (OSIET)  
Chennai, Tamil Nadu, India

IN COLLABORATION WITH

SAMARKAND STATE UNIVERSITY, UZBEKISTAN

**Certificate of Presentation**



**BENEDICT**

This is to certify that Mr. / Ms. / Mrs. / Dr .....from

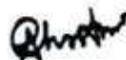
**PAAVAI ENGINEERING COLLEGE, Namakkal**

..... has presented a paper titled

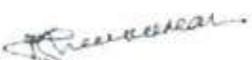
**AN EXPERIMENTAL INVESTIGATION OF DESIGN AND FABRICATION OF QUADCOPTER FRAME WITH 3D PRINTING  
TECHNOLOGY FOR ENCHANCED FLIGHT PERFORMANCE**

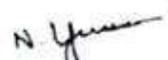
..... in the "International Conference on  
Innovation, Creativity and Computing Applications in Engineering, Pharmacy, Architecture and Management – ICICAEPHAM 2023" held during 27th - 29th  
April 2023 and at Jawaharlal College of Engineering and Technology, Palakkad, Kerala.

  
**Dr. Akhatov Akmal Rustamovich**  
Vice Rector - International Affairs  
SAMARKAND STATE UNIVERSITY  
UZBEKISTAN

  
**Dr. Christo Ananth**  
Professor  
SAMARKAND STATE UNIVERSITY  
UZBEKISTAN

  
**K. Janani**  
CEO, OSIET

  
**Dr. Sivakumar K**  
Convener - ICICAEPHAM

  
**Dr. N. Gunasekaran**  
Principal, JCET



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
**NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI**

*Certificate of Participation*

This is to certify that Mr. Raj Kumar D from Paavai Engineering College, Namakkal has participated and successfully completed the 5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 14th November to 18th November 2022.

**Dr. Rajneesh Arora**  
Chairman  
National Coordination Committee for Induction Program

**Prof. Rajive Kumar**  
Member Secretary, AICTE

PAV  
14-7



ICTACADEMY®

## CERTIFICATE OF PARTICIPATION

C.No: 022-205052

Date: 14 Dec 2022

**P.PRASANNA**

**Paavai Engineering College**

has participated in 3 Day Faculty Development Program on

**Emotional Intelligence**

conducted by ICT Academy on 12 Dec 2022 to 14 Dec 2022 at

**Paavai Engineering College**



PAV  
14.12.2022

Hari Balachandran  
Chief Executive Officer, ICT Academy



# 11th INTERNATIONAL CONFERENCE ON CONTEMPORARY ENGINEERING AND TECHNOLOGY 2023

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

**R.Ramachandraprabhu**

*This is to certify that Mr/Mrs/Dr..... from*

**Paavai Engineering College**

*has presented a paper titled*

**IMPLEMENTATION OF OBSTACLE AVOIDANCE DRONE USING ULTRASONIC SENSORS.**

*in the "11th International*

*Conference on Contemporary Engineering and Technology 2023" held on 1<sup>st</sup> & 2<sup>nd</sup> May 2023.*

**Dr. Akhatov Akmal Rustamovich**

Secretary of International Affairs  
Samarkand State University, Uzbekistan

**Dr. Christo Ananth**

Principal  
Paavai Engineering College, Chennai

**Dr. P. Aravinthan,**

Executive Board Chair  
Secretary

**Prof. A. Krishnameoorthy,**

Executive Board Chair  
Administrator

**K. Janani,**

CEO, CSIET  
Director



# HINDUSTHAN INSTITUTE OF TECHNOLOGY

(An Autonomous Institution, Affiliated to Anna University, Chennai,  
Approved by NAAC With 'A' Grade & NBA)



## Department of Mechanical Engineering Indian Society for Technical Education

*certificate of participation*



This is to certify that Mr/Ms/Dr D. RATKUMAR AEROJ  
of Paavai Engg College, Namakkal  
has presented the technical paper  
entitled Design & fabrication of Medical Emergency Device  
in the ISTE sponsored two days  
National Level Conference on "Emerging Trends in Engineering Design and  
Manufacturing "ETEDM-22" on 15<sup>th</sup> & 16<sup>th</sup> June 2022.

  
Prof.M.Viswanath  
CO-Ordinator

  
Dr.K.M.ArunRaja  
Organizing Secretary



  
Dr.S.R Rajabalayanan  
Chairman of ETEDM-22



# VELAMMAL INSTITUTE OF TECHNOLOGY

Approved by AICTE New Delhi, & Affiliated to Anna University Chennai  
CSE, ECE, EEE, IT, MECH Accredited by NBA & NAAC

"Velammal Knowledge Park", Chennai - Kolkata Highway, Ponneri - 601 204

NBA

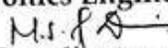
NAAC

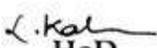
NATIONAL ASSESSMENT AND  
ACCREDITATION COUNCIL

## International Conference on Intelligence in Industrial Automation (ICIA' 22)

### Certificate of Appreciation

This is to certify that Dr./Mr./Ms. D. RAT KUMAR, A.P  
of PAAYAL ENGINEERING COLLEGE, DEPARTMENT OF AERONAUTICAL ENGINEERING has  
presented a paper titled "PERFORMANCE STUDY ON PROPELLER TEST RIG"  
in the  
International Conference on Intelligence in Industrial Automation-ICIA' 22  
held on 15<sup>th</sup> June 2022, organized by Department of Mechanical and  
Mechatronics Engineering

  
Coordinator

  
HoD





UNIVERSITY GRANTS COMMISSION  
HUMAN RESOURCE DEVELOPMENT CENTRE (HRDC)  
PONDICHERRY UNIVERSITY

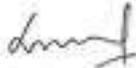
47

UGC SPONSORED  
WEBINAR ON NEP 2020: GLOBAL OUTREACH OF HIGHER EDUCATION  
CERTIFICATE OF PARTICIPATION

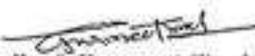
This is to certify that **Dr.M.SUMATHI**

Assistant Professor, Paavai Engineering College

Participated in the Webinar on NEP 2020: Global Outreach of Higher Education which was held on 26.07.2022

  
Prof. Rajneesh Bhulani  
Director(i/c), HRDC

  
Dr. Panch Ramalingam  
Co ordinator, HRDC

  
Prof. Gurmeet Singh  
Vice Chancellor

  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
#47, PACHAL Post, NAMBALKAL Dist



**Tamilnadu College of Engineering**  
(Approved by AICTE & Affiliated to Anna University, Chennai)  
**Palanisame Ravi Nagar, Karumathampatti,**  
**Coimbatore-641659, Tamil nadu**



**INSTITUTION'S INNOVATION COUNCIL CELL-MHRD, India**  
in association with  
**Placement Cell & Rotaract TCE - Women**  
Jointly Organised



**Webinar**

**CERTIFICATE OF PARTICIPATION**

This is to certify that

**Dr.M .SUMATHI**

has joined in the webinar on **CONSUMER RIGHTS AND ENVIRONMENT AWARENESS**  
presented by Mr. C.M.JAYARAMAN, Founder & President, Citizens Voice Coimbatore,  
organised by Tamilnadu College of Engineering on 27<sup>th</sup> July 2022.

Dr.A.S.Shanthi  
HC- President-TCE

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
IN-7 PACHAL Post, NAMAKKAL Dist.

Dr.M.Karthikeyan  
Principal



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)  
17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**DR.P.MUTHUSAMY, HOD**  
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"A CYBER SECURITY MODEL IN CLOUD COMPUTING ENVIRONMENT"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)  
17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**J.VELUMANI,ASP**

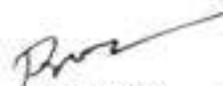
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"A REVIEW ABOUT BLOCK CHAIN TECHNOLOGY"

In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convenor

  
Principal



  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)  
17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**DR.P.MUTHUSAMY, HOD**  
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"DIGITAL FORENSICS (EVIDENCE HANDLING) USING AUTOPSY"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**J.VELUMANI,ASP**

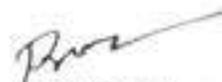
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"AUTONOMOUS DRIVING IN IMAGE PROCESSING"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convenor

  
Principal



  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)  
17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**R.LOGANATHAN,AP**

**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"DEPLOYMENT OF BLOCK CHAIN TECHNOLOGY IN SOFTWARE DEFINED NETWORKS"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal



  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**R.LOGANATHAN,AP**

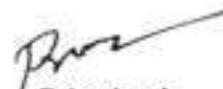
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"SURVEY OF SECURITY ATTACKS"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(10th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**R. RAJALAKSHMI, AP**

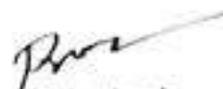
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"WEB APPLICATION PENETRATION TESTING"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convenor

  
Principal



  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**R.LOGANATHAN, AP**

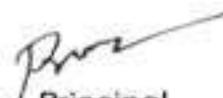
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"PYTHON-BASED MALWARE ANALYSIS PIPELINE"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convenor

  
Principal



  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(6th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

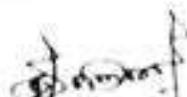
## CERTIFICATE OF PARTICIPATION

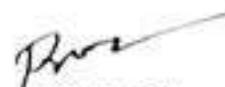
This is to certify that

**DR.P.MUTHUSAMY, HOD**  
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled  
"IOT AND ENERGY MANAGEMENT"

In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convenor

  
Principal



  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**J.VELUMANI,ASP**

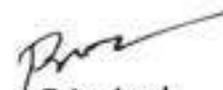
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

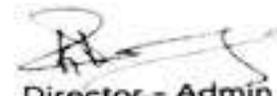
"ETHICAL HACKING: IMPACTS ON SOCIETY"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal



  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**R.LOGANATHAN,AP**

**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"APPLICATION OF CLOUD COMPUTING IN BANKING AND E-COMMERCE AND RELATED SECURITY THREATS"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu

on 17<sup>th</sup> March 2023

  
Convener

  
Principal



  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)  
17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**J.VELUMANI,ASP**

**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"ANALYZING PASSWORD STRENGTH"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convenor

  
Principal

  
Director - Admin

# MASS COLLEGE OF ARTS AND SCIENCE

(Recognized by UGC Under Section 2(f) & 12 (B)  
(Affiliated to Bharathidasan University, Trichy-24)

Chennai Salai, Kallapuliur Village,  
Kumbakonam- 612 501, Thanjavur Dt.

Phone : 0435 - 2400299, Mobile : 9488012299.



## *Certificate of Participation*

This certificate declares that

**Mr. S. Gowtham Kumar**

has completed

**"FDP ON AWARENESS PROGRAMME ON HEALTH MANAGEMENT" on  
12 - 13<sup>th</sup> Sep 2022, Organized by DEPARTMENT OF LIFE SCIENCE.**

  
Dr. G. Sattanathan  
Convener

  
MASS COLLEGE OF ARTS AND SCIENCE  
K. T. PADMAL POULIYUR VILLAGE  
KUMBAKONAM - 612 501, THANJAVUR DISTRICT

  
Dr. K. Saravanan  
Principal



# BON SECOURS COLLEGE FOR WOMEN

(Accredited by NAAC with 'A' Grade), Recognised by UGC under Section 2(f) & 12 (B)

Affiliated to Bharathidasan University, Villar Bypass Road, Thanjavur – 613006

TAMILNADU, INDIA

## Certificate of Participation

**“Bon Flora Association” BSCFW, INDIA &  
International Association of Ayushpathi, MALAYSIA  
Jointly Organized**

**This is to certify that  
Ms. V. Sivasankari  
Paavai Engineering College, Namakkal**

**Has actively participated in the Two Days International FDP on “RECENT PERSPECTIVE IN  
SIDDHA SYSTEM OF MEDICINE” held on 05.09.2022 & 06.09.2022**

**Dr. M. BALA THARMALINGAM  
ADVISOR  
AYUSHPATHY ASSOCIATION,  
MALAYSIA**

**Dr. J. D. ALEXANDERJESUDASAN  
PRESIDENT  
AYUSHPATHY INTERNATIONAL  
ASSOCIATION**

**Dr. A. KARPAGALAKSHMI  
ORGANIZER  
DEPT. OF BOTANY  
BON SECOURS COLLEGE  
FOR WOMEN**

**REV. DR. SR. CATHELINA  
PRINCIPAL  
BON SECOURS  
COLLEGE FOR WOMEN**

**THE WHEEL OF HEALING WITH AYURVEDA  
AN EASY GUIDE TO A HEALTHY LIFESTYLE**

**RBV18-CE000119**



School of Life Sciences

B.S. Abdur Rahman Crescent Institute of Science & Technology



# Certificate of Participation

Mr. S. Kesavan

Paavai Engineering College (Autonomous), Namakkal

Participated in two days FDP on “Future Perspectives in Biotechnology” Organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology, Vandalur, Chennai in association with Unnat Bharat Abhiyan(UBA) held on April 11 & 12, 2023.

  
**Dr. P. Ashok Kumar**  
Coordinator

  
**Dr. S. Hemalatha**  
Organizing Secretary & Dean

PAVAI ENGINEERING COLLEGE  
14.7 PACHAL Post, NAMAKKAL Dist.

ATAL/2022/1702632251



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training and Learning (ATAL) Academy

***Certificate***

*It is certified that **Dr. P. Chitra, Paavai Engineering College** has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on **Unravelling Molecular Mechanisms and Artificial Intelligence Approaches of Drug Design in Cancer** at **SRI VENKATESWARA COLLEGE OF ENGINEERING** from 12/12/2022 to 17/12/2022.*

Praveen Kumar P K  
Coordinator, Professor

**SRI VENKATESWARA COLLEGE OF ENGINEERING**

Dr. Ramesh Unnikrishnan  
Adviser-II & Bureau Head

**Training and Learning Bureau, AICTE**

PAVVAI ENGINEERING COLLEGE  
JAY PRAJAN PULI, TAMIL NADU 605 002



# BON SECOURS COLLEGE FOR WOMEN

(Accredited by NAAC with 'A' Grade), Recognised by UGC under Section 2(f) & 12 (B)

Affiliated to Bharathidasan University, Villar Bypass Road, Thanjavur – 613006

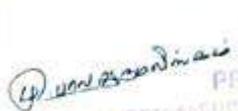
TAMILNADU, INDIA

## Certificate of Participation

**“Bon Flora Association” BSCFW, INDIA &  
International Association of Ayushpathi, MALAYSIA  
Jointly Organized**

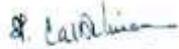
**This is to certify that  
Ms. V. Thabitha Zelin Rachel  
Paavai Engineering College, Namakkal**

Has actively participated in the **Two Days International FDP on “RECENT PERSPECTIVE IN  
SIDDHA SYSTEM OF MEDICINE”** held on **05.09.2022 & 06.09.2022**

  
**Dr. M. BALA THARMALINGAM**  
ADVISOR  
AYUSHPATHY ASSOCIATION,  
MALAYSIA

  
**Dr. J. D. ALEXANDERJESUDASAN**  
PRESIDENT  
AYUSHPATHY INTERNATIONAL  
ASSOCIATION

  
**Dr. A. KARPAGALAKSHMI**  
ORGANIZER  
DEPT. OF BOTANY  
BON SECOURS COLLEGE  
FOR WOMEN

  
**REV. Dr. Sr. CATHELINA**  
PRINCIPAL  
BON SECOURS  
COLLEGE FOR WOMEN

**THE WHEEL OF HEALING WITH AYURVEDA  
AN EASY GUIDE TO A HEALTHY LIFESTYLE**

**RBV18-CE000118**



*This is to certify that*

*R. Balasubramani*

of

*Chemical Engineering Department, Professor, Paaval Engineering College*

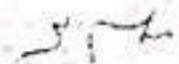
has completed the faculty development program on

**Energy trends and virtual challenges in current scenario**

Conducted by Department of Petroleum Engineering, JCT College of Engineering and technology during (01/02/2023 to 07/02/2023).

  
Dr. M.J.A. Prince  
Conference Convenor

  
Dr. S. Venkitesh Babu  
Prof & Head - Petroleum Engg

  
Dr. S. Manoharan  
Principal JCTCET



# PAAVAI ENGINEERING COLLEGE

Autonomous Institution | Approved by AICTE | Affiliated to Anna University | Accredited NAAC with 'A' Grade  
Pachal, Namakkal.



INSTITUTION'S  
INNOVATION  
COUNCIL



## CERTIFICATE

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**MR.R.BALASUBRAMANI, CHEMICAL ENGINEERING**

for the participation in an online Seminar on "The Journey of Entrepreneurship" - Organic products 'Milir', organized by Department of Electronics and Communication Engineering in association with Institution's Innovation Council (IIC), Paavai Engineering College & Institution of Engineers (India) on 14.05.2023.

  
**DR.M.SUDHA**

HoD,ECE

  
**DR.R.MOHANA PRIYA**

Convener IIC, PEC

  
**DR.M.PREM KUMAR**

Principal & President - IIC

Made for free with Certify'em

*This is to certify that*

*T.Udhayatheran*  
of

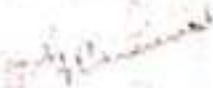
*Chemical Engineering Department, Professor, Paaval Engineering College*

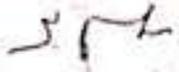
has completed the faculty development program on

**Energy trends and virtual challenges in current scenario**

Conducted by Department of Petroleum Engineering, JCT College of Engineering and technology  
during (01/02/2023 to 07/02/2023).

  
Dr. M. J. A. Prince  
Coordinating Professor

  
Dr. S. Venkitesh Babu  
Prof & Head, Petroleum Engg

  
Dr. S. Manoharan  
Principal JCTCEET

*This is to certify that*

*C.P.Murali*  
of

*Chemical Engineering Department, Professor , Paavai Engineering College*

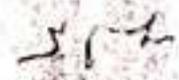
**has completed the faculty development program on**

**Energy trends and virtual challenges in current scenario**

**Conducted by Department of Petroleum Engineering, JCT College of Engineering and technology  
during (01/02/2023 to 07/02/2023).**

  
**Dr. M. J. A. Prince**  
Conference Convener

  
**Dr. S. Venkitesh Babu**  
Head of Dept. - Petroleum Engng

  
**Dr. S. Manoharan**  
Principal JCTCET

*This is to certify that*

*K.Maruthathurai*

of

*Chemical Engineering Department, Professor , Paavai Engineering College*

**has completed the faculty development program on**

**Energy trends and virtual challenges in current scenario**

**Conducted by Department of Petroleum Engineering, JCT College of Engineering and technology  
during (01/02/2023 to 07/02/2023).**

  
**Dr. M. J. S. Prince**  
Coordinator, Center for  
Faculty Development

  
**Dr. S. Venkitesh Babu**  
Prof & Head - Petroleum Engineering

  
**Dr. S. Mancharan**  
Principal, JCTCEVT

*This is to certify that*

*Dr.G.Ellamparathy*  
of

*Chemical Engineering Department, Professor , Paavai Engineering College*

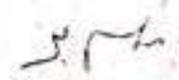
**has completed the faculty development program on**

**Energy trends and virtual challenges in current scenario**

**Conducted by Department of Petroleum Engineering, JCT College of Engineering and technology  
during (01/02/2023 to 07/02/2023).**

  
**Dr.M.J.A.Prince**  
Conference Convenor

  
**Dr.S.Venkitesh Babu**  
Prof & Head - Petroleum Engg

  
**Dr.S.Manoharan**  
Principal JCTCET



**LOGANATHA NARAYANASAMY GOVERNMENT COLLEGE**

(Autonomous), Ponneri – 601 204, Tamilnadu, India.

Ph & Fax: 044 -27972266 , Website: [www.lngovernmentcollege.com](http://www.lngovernmentcollege.com)



Webinar on  
**MATERIALS AND NANOMATERIALS**  
by  
PG & Research Department of Physics

**Certificate**

This is to certify that Dr./Mr./Mrs. K. Maruthathurai

has participated in the webinar on Materials and Nanomaterials on  
29 September 2022 at 11.00 am.

Dr. A. Kandasamy  
Convenor

  
Dr. R. Samuel Selvaraj  
HOD - Physics

Dr. D. Seghar  
Principal



**LOGANATHA NARAYANASAMY GOVERNMENT COLLEGE**

(Autonomous), Ponneri – 601 204, Tamilnadu, India.

Ph & Fax: 044 -27972266 , Website: [www.lngovernmentcollege.com](http://www.lngovernmentcollege.com)



Webinar on  
**MATERIALS AND NANOMATERIALS**  
by  
**PG & Research Department of Physics**

**Certificate**

This is to certify that Dr./Mr./Mrs. G. Ellamparathy

has participated in the webinar on Materials and Nanomaterials on  
29 September 2022 at 11.00 am.

Dr. A. Kandasamy  
Convenor

Dr. R. Samuel Selvaraj  
HOD - Physics

Dr. D. Seghar  
Principal



**LOGANATHA NARAYANASAMY GOVERNMENT COLLEGE**

(Autonomous), Ponneri – 601 204, Tamilnadu, India.

Ph & Fax: 044 -27972266 , Website: [www.lngovernmentcollege.com](http://www.lngovernmentcollege.com)



Webinar on  
**MATERIALS AND NANOMATERIALS**  
by  
PG & Research Department of Physics  
**Certificate**

This is to certify that Dr./Mr./Mrs. P.Indumathi

has participated in the webinar on Materials and Nanomaterials on  
29 September 2022 at 11.00 am.

Dr. A. Kandāsamy  
Convenor

  
Dr. R. Samuel Selvaraj  
HOD - Physics

Dr. D. Seghar  
Principal



**LOGANATHA NARAYANASAMY GOVERNMENT COLLEGE**  
(Autonomous), Ponneri – 601 204, Tamilnadu, India.  
Ph & Fax: 044 -27972266 , Website: [www.lngovernmentcollege.com](http://www.lngovernmentcollege.com)



Webinar on  
**MATERIALS AND NANOMATERIALS**  
by  
PG & Research Department of Physics

**Certificate**

This is to certify that Dr./Mr./Mrs. G. Swathi

has participated in the webinar on Materials and Nanomaterials on  
29 September 2022 at 11.00 am.

Dr. A. Kandasamy  
Convenor

Dr. R. Samuel Selvaraj  
HOD - Physics

Dr. D. Seghar  
Principal



# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

## ICATS - 2023

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

# CERTIFICATE OF PARTICIPATION

This is to certify that

**M.Buvaneswari AP/CSE**

Paavai Engineering College

Presented a paper entitled

“ISL Translator Using Machine Learning”

In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023



Convener



Principal



PAAVAI ENGINEERING COLLEGE  
NH-44, PACHAL 1st, NAMAKKAL Dist



Director - Admin



# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

## ICATS - 2023

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

# CERTIFICATE OF PARTICIPATION

This is to certify that

**M.Buvaneswari AP/CSE**

Paavai Engineering College

Presented a paper entitled

“E Commerce Based Chatbot System”

In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023



Convener



Principal



PAAVAI ENGINEERING COLLEGE  
NH-44, PACHAL 7<sup>th</sup> St. NAMAKKAL Dist



Director - Admin



Government of India  
Ministry of Commerce and Industry  
Department for Promotion of Industry and Internal Trade  
Office of the Controller General of Patents, Designs and Trade Marks

## CERTIFICATE

This is to certify that, **MS. M.BUVANESWARI** of **PAAVAI ENGINEERING COLLEGE** has successfully participated in IP Awareness/Training program under

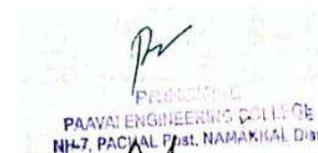
**NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION**

**on February 28, 2023**

Azadi Ka  
Amrit Mahotsav

Organized by  
Intellectual Property Office, India

Date: March 01, 2023



A handwritten signature in black ink, appearing to read 'Unnat P. Pandit'.

(Prof. (Dr) Unnat P. Pandit)  
CONTROLLER GENERAL OF  
PATENTS, DESIGNS & TRADE MARKS



# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**RENUKADEVI P**



for successfully completing the course

**Python for Data Science**

with a consolidated score of **56 %**

Prof. Andrew Thangara  
NPTEL Coordinator  
IIT Madras



(Jan-Feb 2023)

Roll No: NPTEL23CS21S25540360

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 notification dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RFD / FDP through MOOCs / 2017-18

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist.



**SRM TRP**  
ENGINEERING COLLEGE  
Affiliated to ANNA UNIVERSITY  
**TIRUCHIRAPPALLI**



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
Ministry of Education Initiative

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

in association with **IETE and IIC**

# CERTIFICATE OF PARTICIPATION

This is to certify that Dr. / Mr. / Prof. / Ms. N.M.K. RAMALINGAM SAKTHIVELAN

of PAAVAI ENGINEERING COLLEGE has presented a paper titled

HYPOTHESIS OF CARDIO DISEASE AND SURVEILLING PATIENT'S HEALTH AND RESCUE

in the 2<sup>nd</sup> National Conference on

**"Recent Advances in Communicative Electronics (NCRACE 2023)"** organized by the **Department of Electronics**

**and Communication Engineering, SRM TRP Engineering College, Tiruchirappalli, during March 09-10, 2023.**

**Session Chair**

NCRACE' 2023

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist

**Convenor**

NCRACE' 2023



# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**RENUKADEVI P**

for successfully completing the course

**Learning Analytics Tools**

with a consolidated score of **50 %**



Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jul-Oct 2022)

Roll No: NPTEL22GE26534442004

Duration of NPTEL course : 12 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 notification dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RFD / FDP through MOOCs / 2017-18

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS32S34181434  
To  
BUVANESWARI M  
NO.2 GHANDHIPURAM 3 RD STREET  
OPP TO ANNAI SRI PARVATHI CLINIC  
KARAIKUDI  
TAMILNADU - 639001  
PH. NO :7708287324

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:1

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**BUVANESWARI M**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **69**

*Pr*  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
NH-7, PACAL Dist. NAMAKKAL Dist

Online Assignments	23.33/25	Programming Exam	25/25	Proctored Exam	20.84/50
--------------------	----------	------------------	-------	----------------	----------

Total number of candidates certified in this course: 3390

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Jan-Feb 2022  
(4 week course)

*Andrew Thangaraj*  
**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL22CS32S34181434

To validate and check scores: <https://npTEL.ac.in/noc>



# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**BUVANESWARI M**

for successfully completing the course

**Introduction to Machine Learning**

with a consolidated score of **54 %**

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jul-Sep 2022)

Roll No: NPTEL22CS97S13210018

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist.



# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**BUVANESWARI M**

for successfully completing the course

**Data Science for Engineers**

with a consolidated score of **57 %**

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jan-Mar 2023)

Roll No: NPTEL23CS17S45260544

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist



# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**BUVANESWARI M**

for successfully completing the course

**Blockchain and its Applications**

with a consolidated score of **54 %**

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jan-Apr 2023)

Roll No: NPTEL23CS47S44290042

Duration of NPTEL course : 12 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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist



5 Courses

Technical Support Fundamentals

The Bits and Bytes of Computer Networking

Operating Systems and Your Growing Power User

System Administration and IT Infrastructure Services

IT Security: Defense against the digital dark arts



Jan 17, 2022

**Ramanan.K**

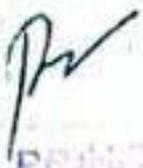
has successfully completed the online, non-credit Professional Certificate.

## Google IT Support

Those who earn the Google IT Support Professional Certificate have completed five courses, developed by Google, that include hands-on, practice-based assessments and are designed to prepare them for entry-level roles in IT support. They are competent in foundational skills, including troubleshooting and customer service, networking, operating systems, system administration, and security.

This document certifies that the individual named above has successfully completed the Google IT Support Professional Certificate. This certificate is not a degree and does not confer any academic credit. It is not a guarantee of employment. For more information, please visit <https://www.coursera.org/certificates>.

Verify this certificate at:  
<https://www.coursera.org/certificates/verify>  
#courseraIT2022GGE

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACIAL Post, NAMAKKAL Dist.



# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**RENUKADEVI P**



for successfully completing the course

**Introduction to Machine Learning**

with a consolidated score of **53 %**

Prof. Andrew Thangara  
NPTEL Coordinator  
IIT Madras



(Jul-Sep 2022)

Roll No: NPTEL22CS97513780283

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 notification dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RFD / FDP through MOOCs / 2017-18

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACVAL Post, NAMAKKAL Dist



## CERTIFICATE OF RECOGNITION

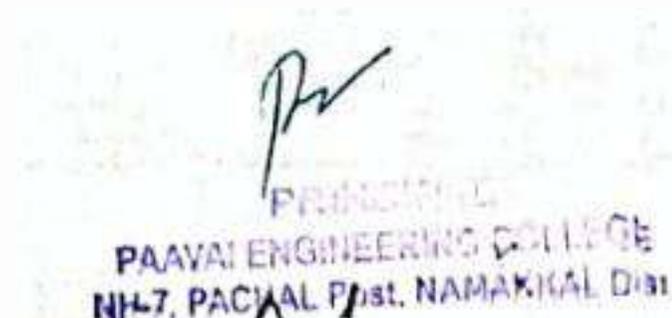
This is to certify

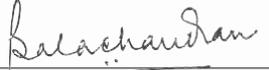
**RAMANAN K**

Paavai Engineering College

has successfully completed the course on **Cyber Security**  
under Microsoft Cybershikshaa for Educators Program held from 03 Aug 2022 to  
12 Aug 2022 .

C. No: G-2023-G2530-0025 | Date: 28 Oct 2022



  
Hari Balachandran  
Chief Executive Officer, ICT Academy



# CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. K. RAMANAN , Assistant Professor, Paavai Engineering College has participated in Webinar on "IPR & IP Management for startups" held on 08.12.2023 organized by Vel Tech TBI & Institution's Innovation Council, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,Avadi, Chennai-62.

Dr. P. Chandrakumar  
President, IC-Vel Tech

Certificate ID: B9WLEG-CE000022

Note: \*This is an Electronically generated Certificate, Hence No Authorised Signature is Needed\*

Made for free with Certify'em

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist



# KCG

COLLEGE OF TECHNOLOGY

Affiliated to Anna University

**AUTONOMOUS**

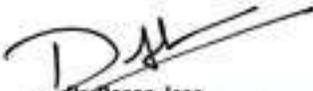


## Certificate OF PARTICIPATION

This is to certify that

K RAMANAN

ASSISTANT PROFESSOR....., from PAAYAL ENGINEERING COLLEGE.....  
has participated in Five Days National Seminar on **Integration of AI and IoT for Industry 4.0 towards Atmanirbhar Bharat** Sponsored by **Science and Engineering Research Board (SERB)**, Organised by **Department of Research, KCG College of Technology** on 19<sup>th</sup> to 23<sup>rd</sup> June 2023.

  
Dr. Deepa Jose  
Professor and Head Re  
Organising Secreta

  
PRINCIPAL  
PAAVAL ENGINEERING COLLEGE  
NH-7, PACVAL Post, NAMAKKAL Dist

  
Dr. P. Deiva Sundari  
Principal



# KUMARI MANGROVE FOUNDATION

SRG/Kanyakumari/41/2021

(A Charity NGO for Research and Development)

Kandanvilal, Kanyakumari District, Tamil Nadu, India.

Ph : +91-9385389630

Website : [www.kumarimf.com](http://www.kumarimf.com) Email : [kumarimangrove@gmail.com](mailto:kumarimangrove@gmail.com)

## Certificate of Participation

*This is to certify that*

**N.M.K.RAMALINGAMSAKTHIVELAN**

**Associate Professor**

**Paavai Engineering College**

*have participated in the International Webinar on  
OS Installation and Software Testing  
organized by Kumari Mangrove Foundation  
on 21.10.2022 & 22.10.2022*

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACYAL Post, NAMAKKAL Dist

FOUNDER & SECRETARY



# Certificate

This is to certify that

***Ramanan Kuppusamy***

*has successfully completed*

***Digital 101 Journey***



Certificate ID: FSP/2023/3/7456091

20/03/2023

Date of issue

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist

Kirti Seth  
CEO, IT-ITes SSC NASSCOM



# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**V MAHESKUMAR**

for successfully completing the course

**Introduction to Machine Learning**

with a consolidated score of **55 %**

Prof. Andrew Thangara  
NPTEL Coordinator  
IIT Madras



(Jul-Sep 2022)

Roll No: NPTEL22CS97513780218

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 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RFD / FDP through MOOCs / 2017-18

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Dist. NAMAKKAL Dist



OM SAKTHI

**ADHIPARASAKTHI ENGINEERING COLLEGE**  
MELMARUVATHUR - 603319



Approved by AICTE, Affiliated to Anna University - Chennai, Accredited by NBA, Accredited by NAAC with "A" Grade, An ISO 9001:2008 Certified Institution

**Department of Computer Science and Engineering**

*Organizing*



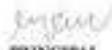
**4<sup>TH</sup> INTERNATIONAL CONFERENCE ON TECHNOLOGICAL ADVANCEMENT  
IN COMPUTERS AND COMMUNICATION (ICTACC'23)**

**CERTIFICATE**

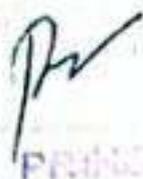
This is to certify that Mr. M. SATHYA SUNDARAM, M.TECH, (Ph.D) of  
PAAVAI ENGINEERING COLLEGE has presented a paper in the title  
RESOURCE ALLOCATION IN VIRTUAL SERVERS in  
4<sup>TH</sup> INTERNATIONAL CONFERENCE ON TECHNOLOGICAL ADVANCEMENT IN COMPUTERS AND COMMUNICATION  
on 11<sup>th</sup> April, 2023 organized by Department of Computer Science and Engineering, Adhiparasakthi Engineering  
College in association with Computer Society of India - Kancheepuram Chapter.

  
COORDINATOR  
Dr. B. Senthilapcse

  
CONVENOR  
Dr. C. Dhany, HEAD/CSE

  
PRINCIPAL  
Dr. J. Raja

  
CHAIRMAN  
CSI - Kancheepuram Chapter  
Prof. M. Marupan

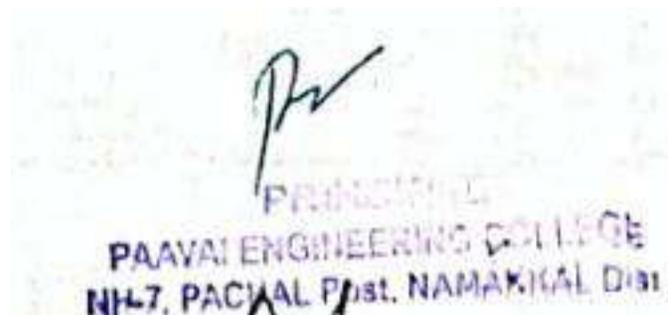
  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACVAL Post, NAMAKKAL Dist



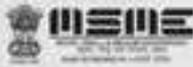
**INTERNATIONAL CONFERENCE ON INTELLECTUAL  
RESEARCH IN ENGINEERING, SCIENCE AND  
MANAGEMENT (ICIRESM - 2023)**

***Certificate of Participation***

**This is to certify that V.Maheskumar has presented a paper on A SURVEY ON EFFECT OF COVID-19 ON AUTISM SPECTRUM DISORDER PREDICTION METHODS in Virtual Conference, International Conference on Intellectual Research in Engineering, Science and Management (ICIRESM – 2023) held on 20th April 2023**



***Convener***



# CERTIFICATE OF COMPLETION



MARCELLO TECH

Certificate No. : **MTWMM107**

This is to certify that Mr./Ms. **SATHYA SUNDARAM M** of  
**PAAVAI ENGINEERING COLLEGE** has successfully  
completed the One Day Workshop on Machine Learning ,Deep Learning foundations  
and applications with MATLAB On 26.03.2023

27.03.2023

DATE ISSUED



*S. Anand*

MANAGER

No.3, GEM Plaza, Ground Floor, Sankaran Pillai Road, (SBC Road) Tiruchirappalli, Tamil Nadu, India - 620002.  
Mobile No. : 94423 44796 Mail : info@marcellotech.com Web : www.marcellotech.com

*Pw*

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY  
Directorate of Research and School of Bioengineering  
Kattankulathur, Tamil Nadu- 603203, India



Dr. Paarivendhar Research Colloquium- 2023  
MARCH 29-31, 2023

### Certificate of Participation

This is to certify that **M SATHYA SUNDARAM**.....  
of **Computer science and engineering**.....has  
participated in Dr. Paarivendhar Research Colloquium (DPRC-2023) held between  
March 29-31, 2023 at SRMIST, Kattankulathur.

Dr. M. Vairamani  
Chairperson  
School of Bioengineering

PRINCIPAL  
PAAVAL ENGINEERING COLLEGE  
NH-7, PACYAL Dist. NAMAKKAL Dist

Dr. B. Neppolian  
Dean  
Research



**K.RAMAKRISHNAN  
COLLEGE OF TECHNOLOGY**  
An Autonomous Institution



Affiliated to Anna University Chennai, Approved by AICTE New Delhi,  
ISO 9001:2015 & ISO 14001:2015 Certified Institution, Accredited with A++ grade by NAAC  
Samayapuram, Tiruchirappalli - 621 112, Tamilnadu, India.

## CERTIFICATE OF PRESENTATION

This is to certify that Dr/Mr/Ms/Mrs of *Sathya Sundaram : M*.....

has made the presentation of the paper entitled  
*Review on intracerebral hemorrhage stroke classification using deep learning techniques*.....

in the International Conference on Newer Engineering Concepts and Technology (ICONNECT-2023), conducted during 27-04-2023 and 28-04-2023 at K.Ramakrishnan College of Technology (Autonomous), Kariyamanickam Road, Samayapuram, Trichy, India.

*B.nh*  
**Coordinator**

*R.Rajan*  
**HoD**

*V. S.*  
**Conference Chair**



UGC AUTONOMOUS

# St. MARTIN'S ENGINEERING COLLEGE

A NON MINORITY COLLEGE, AFFILIATED TO JNTUH, APPROVED BY AICTE, ACCREDITED BY NBA & NAAC A+, ISO 9001:2008 CERTIFIED, SIRO RECOGNITION BY MINISTRY OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA, DHULAPALLY, NEAR KOMPALLY, SECUNDERABAD - 500 100, TELANGANA STATE, INDIA, WWW.SMEC.AC.IN



## *Certificate of Participation*

This is to certify that

**M.SATHYA SUNDARAM**

**ASSISTANT PROFESSOR in Dept. of COMPUTER SCIENCE AND ENGINEERING  
PAAVAI ENGINEERING COLLEGE**

participated in One Day Online Workshop on *“Writing a Research Proposal”*  
Organized by Research and Development Cell,

St. Martin's Engineering College,  
on 03<sup>rd</sup> March 2023.

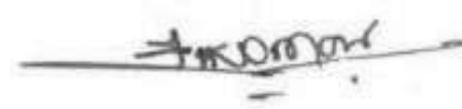
  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACVAL Pst, NAMAKKAL Dist



**Dr. P. Pavan Kumar**  
Coordinator, SMEC, INDIA.



**Dr. Sanjay Kumar Suman**  
Convener, SMEC, INDIA.



**Dr. P. Santosh Kumar Patra**  
Patron & Principal, SMEC, INDIA.



THREE DAYS WORKSHOP ON  
"Machine Learning Techniques for  
Healthcare Image Analysis with Hands-on"

February 1<sup>st</sup> - 3<sup>rd</sup>, 2023

**DEPARTMENT OF COMPUTING TECHNOLOGIES**

**School of Computing  
College of Engineering and Technology  
SRM Institute of Science and Technology**

## *Certificate of Participation*

*This certificate is presented to*

M. SATHYA SUNDARAM

PAAVAI ENGINEERING COLLEGE

*for attending the three days workshop on "Machine Learning Techniques for  
Healthcare Image Analysis with Hands-on" held from 01.02.2023 to 03.02.2023,  
organized by the Department of Computing Technologies, SRM Institute of Science  
and Technology, Kattankulathur, Tamilnadu, India - 603203.*

Dr. D. Malathi  
Professor, C.Tech

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACIAL Post, NAMAKKAL Dist

Dr. M. Pushpalatha  
Professor & HOD/C.Tech

Dr. Revathi Venkataraman  
Chairperson, School of Computing



# ST. JOSEPH COLLEGE OF ENGINEERING

Approved by AICTE New Delhi | Affiliated to Anna University

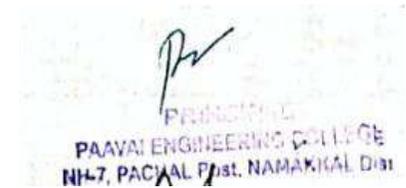
An ISO 9001: 2015 Certified Institution

Near Toll Plaza, Sriperumbudur, Chennai – 602117

Run by MMI FATHERS

## 5<sup>th</sup> INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN ENGINEERING AND TECHNOLOGY [ICETET-2023]

### CERTIFICATE OF PARTICIPATION



This is to certify that **Mr.M.SATHYA SUNDARAM**  
from **PAAVAI ENGINEERING COLLEGE** Presented the paper titled  
**BRAIN STROKE CLASSIFICATION & ANALYSING THE STAGE USING DEEP LEARNING**

in the " 5<sup>th</sup> International Conference on Emerging Trends in Engineering and Technology (ICETET 2023) "  
Conducted by St. Joseph College of Engineering, Chennai, Tamil Nadu, on 19.04.2023 and 20.04.2023.

  
Dr. P. CHINNIAH M.E., Ph.D.  
CONVENOR, HOD/ECE

  
Dr. T. AHILAN M.E., Ph.D.  
PRINCIPAL

  
Rev. Fr. L. SAVARIAPPAN MMI  
ADMINISTRATOR



Vidya Vihar Institute  
of Technology, Purnea



Global Conference Hub

# CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO



**Dr.R.Mohanapriya**

Associate Professor, Paavai Engineering College

for attending & giving an Oral Presentation for the paper  
entitled

**Hospital visitor management system**

In International Conference on recent trends in Management, Engineering and  
Technology (ICMET-2022) organized by Vidya Vihar Institute of Technology,  
Purnea, Bihar & Global Conference Hub, Tamilnadu, India on 26<sup>th</sup> & 27<sup>th</sup>  
December 2022

**Er. Om Prakash Singh**  
Conference Convener  
ICMET - 2022

**Dr. Asheshwar Yadav**  
Director  
Vidya Vihar Institute of Technology,  
Purnea, India

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
PAVAI ENGINEERING COLLEGE  
1177 PACHAI POBL, NAMAKKAL DIST.



# CERTIFICATE

## OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**DR.S.VIJAYAKUMAR**

PROFESSOR, PAAVAI ENGINEERING COLLEGE, NAMAKKAL

*for attending & giving an Oral Presentation for the paper entitled*

**A SURVEY PAPER ON THE FINGERPRINT BASED MEDICAL INFORMATION SYSTEM AND ONLINE FIRST AID RECOMMENDER FOR EMERGENCY PEOPLE**

**USING IOT**  
in Second International Conference on Multidisciplinary in Research and Innovation (ICMRI - 2022) - Online organized by Kishori Raman PG College, Mathura, Uttar Pradesh and RSP Conference Hub, Coimbatore, India on 26th & 27th November '22

**Dr. Mamta Rani Kaushik**  
Conference Convener  
ICMRI-2022  
Assistant Professor,

**Prof Praveen Kumar Agrawal**  
Principal  
Patron, ICMRI - 2022  
K.R.(P.G.) College, Mathura

**PRINCIPAL**  
PAAVAI ENGINEERING COLLEGE  
JH.7 PACHAL Post, NAMAKKAL





Vidhya Vihar Institute  
of Technology, Purnea



Global Conference Hub

# CERTIFICATE OF APPRECIATION

*THIS CERTIFICATE IS PROUDLY PRESENTED TO*

**Dr.R.Pushpavalli**  
Ap, Paavai Engineering college

*for attending & giving an Oral Presentation for the paper  
entitled*

**Post Processing Technique for Image Denoising**

**in International Conference on recent trends in Management, Eng**

*[Signature]*  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NANDIKKAL, DISTRICT PUNEA



## BANNARI AMMAN INSTITUTE OF TECHNOLOGY

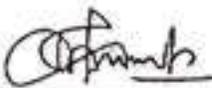
An Autonomous Institution Affiliated to Anna University - Chennai • Approved by AICTE • Accredited by NAAC with "A+" Grade

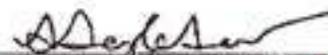
SATHYAMANGALAM - 638401 ERODE DISTRICT TAMILNADU INDIA

Ph: 04295 - 226000/221289 Fax: 04295 - 226666 E-mail: stayahead@bitsathy.ac.in Web: www.bitsathy.ac.in

### FIRST INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN (ICAIBC-2023)

This is to certify that Dr. LOGANAYAGI T  
has presented the paper entitled Comparative Study of Smart Wearable Devices  
for Safety and Security of Child  
in the INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND  
BLOCKCHAIN (ICAIBC-2023), organized by the Department of Artificial Intelligence  
and Data Science & Department of Artificial Intelligence and Machine Learning,  
Bannari Amman Institute of Technology, Sathyamangalam on 5<sup>th</sup> and 6<sup>th</sup> January  
2023.

  
Dr. T. Kumaresan  
Organizing Secretary

  
Dr. A. Fazila Banu  
Convener

  
Dr. C. Paknisamy  
Principal

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
14.7. PACHAL Post, NAMAKKAL Dist.



**INTERNATIONAL CONFERENCE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of **ICRTCSCE- 2022**

This is to certify that **Dr.M.Sudha** of **Professor** Dept. of E.C.E, Paavai Engineering College (Autonomous), Namakkal, Tamilnadu"

Has presented the manuscript At Virtual Conference:: Google Meet

The International Conference on "Recent Trends in Computer Science and Communication Engineering" ICRTCSCE- 2022:: BLENDED MODE

**NRI Institute of Technology (NRIIT) - Medikonduru, Guntur, Andhra Pradesh**

Date: **11 & 12 -DECEMBER-2022:: Google Meet: [meet.google.com/pyz-funv-rek](https://meet.google.com/pyz-funv-rek)**

**TITLE: A NEW ERA OF IOT BASED INTEGRATED TECHNOLOGIES FOR GARBAGE MONITORING AND ALERT SYSTEM**

**AUTHORS: DR. M SUDHA, KAVIYA R, LAKSHAYA R, LAKSHMI PRABHA S**

**ISBN-13: 979-8367894165**

*K. Sri Hari Rao*

**Dr. K. Srihari Rao**  
Conference Convener  
ICRTCSCE-2022

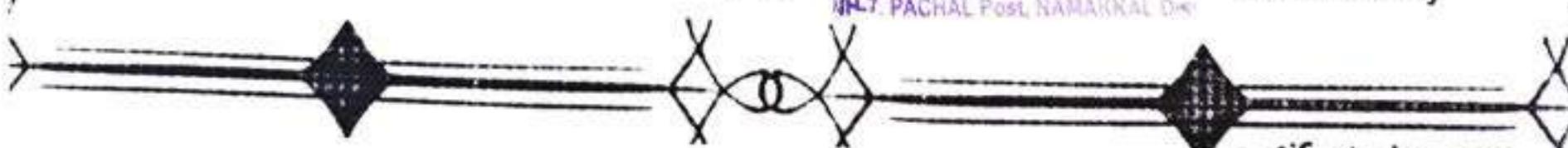
*K. Srinivasu*

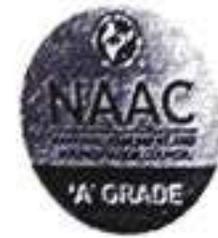
**Dr. K. Srinivasu**  
Principal  
<https://nriit.ac.in/>

*[Signature]*  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
M.T. PACHAL Post, NAMAKKAL Dist

*M. Sreedevi*

**Dr. M. Sreedevi**  
Organizing Chair  
S.V. University





<http://sacet.ac.in/>

**INTERNATIONAL CONFERENCE::DUAL MODE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of

**ICIEECE-2023**

This is to certify that "Dr.T.Loganayagi, professor  
Dept. of E.C.E, Paavai Engineering College (Autonomous), Namakkal, Tamilnadu"

Has presented the manuscript at Virtual Conference:: Google Meet  
"The International Conference on Innovations in Electrical, Electronics & Communication  
Engineering" - ICIEECE-2023:: Dual Mode

St. Ann's College of Engineering & Technology - Chirala, Andhra Pradesh

Dates: 08 - JANUARY - 2023(Online) & 09 - JANUARY - 2023(Offline)

Google Meet: [meet.google.com/cih-tjpw-owd](https://meet.google.com/cih-tjpw-owd)

**TITLE:** AUTOMATIC DETECTION OF BLOOD CANCER FROM BONE MARROW USING CONVOLUTIONAL NEURAL NETWORKS

**AUTHORS:** HEMAPRIYA K S, KAMALI S, LOGANAYAKI S

**ISBN-13:** 979-8372932128

Dr. K. Jagadeesh Babu  
Conference Convener  
ICIEECE-2023

Dr. M. VenuGopala Rao  
Principal

<http://sacet.ac.in/>

Dr. Parameshachari B D  
Organizing Chair  
NMIT, Bangalore

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
JH.7, PACHAL Post, NAMAKKAL Dist



# CERTIFICATE

## OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**S. VIJAY MURUGAN**

Associate Professor., Paavai Engineering College

for attending & giving an Oral Presentation for the paper  
entitled

Designing of smart security device for women safety using IoT

in Second International Conference on Multidisciplinary in Research and  
Innovation (ICMRI - 2022) - Online organized by Kishori Raman PG College,  
Mathura, Uttar Pradesh and RSP Conference Hub, Coimbatore, India on 26th  
& 27th November '22

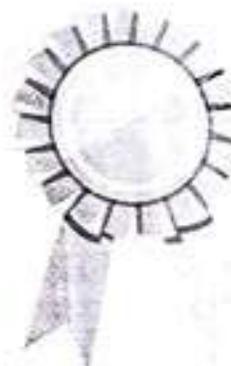
**Dr. Mamta Rani  
Kaushik**

Conference Convener  
ICMRI-2022  
Assistant Professor,  
K.R.(P.G.) College, Mathura

**Prof Praveen Kumar  
Agrawal**

Principal  
Patron, ICMRI - 2022  
K.R.(P.G.) College, Mathura

**PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
JH-7, PACHAL Post, NAMAKKAL (T.N.)**





# 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 TAMILNADU INDIA  
Ph : 04295 - 226000/221289 Fax : 04295 - 226666 E-mail : stayahead@bitsathy.ac.in Web : www.bitsathy.ac.in

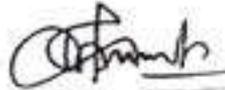
## FIRST INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN (ICAIBC-2023)

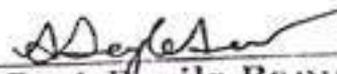
Dr. VIJAYAKUMAR S

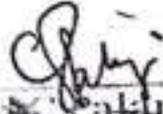
This is to certify that \_\_\_\_\_

has presented the paper entitled \_\_\_\_\_  
Ticket Generating and Crowd Controlling Bus Stop System Using Internet of Things

in the INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND  
BLOCKCHAIN (ICAIBC-2023), organized by the Department of Artificial Intelligence  
and Data Science & Department of Artificial Intelligence and Machine Learning,  
Bannari Amman Institute of Technology, Sathyamangalam on 5<sup>th</sup> and 6<sup>th</sup> January  
2023.

  
Dr. T. Kumaresan  
Organizing Secretary

  
Dr. A. Hazila Banu  
Convener

  
Dr. K. Sakiniamy  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
M-7, PACHAL Post, NAMAKKAL Dist



**ST. ANN'S**  
COLLEGE OF ENGINEERING & TECHNOLOGY - CHIRALA  
(AUTONOMOUS)



<http://sacet.ac.in/>

**INTERNATIONAL CONFERENCE::DUAL MODE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
**ICIEECE-2023**

This is to certify that ' Mr.S.Loganathan, AP  
, Dept. of E.C.E, Paavai Engineering College (Autonomous), Namakkal, Tamilnadu"

Has presented the manuscript at Virtual Conference:: Google Meet  
"The International Conference on Innovations in Electrical, Electronics & Communication  
Engineering" - ICIEECE-2023:: Dual Mode

St. Ann's College of Engineering & Technology - Chirala, Andhra Pradesh

Dates: 08 - JANUARY - 2023(Online) & 09 - JANUARY - 2023(Offline)

Google Meet: [meet.google.com/cih-tipw-owd](https://meet.google.com/cih-tipw-owd)

TITLE: FACE RECOGNITION BASED SMART ATTENDANCE SYSTEM USING IOT

AUTHORS: ARUN E, BHARATH S, GOPINATH P, MR. S LOGANATHAN

ISBN-13: 979-8372932128

Dr. K. Jagadeesh Babu  
Conference Convener  
ICIEECE-2023

Dr. M. VenuGopala Rao  
Principal  
<http://sacet.ac.in/>

Dr. Parameshchari B D  
Organizing Chair  
NMIT, Bangalore

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
IN.7. PACHAL Post. NAMAKKAL. Dist.



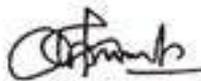
## BANNARI AMMAN INSTITUTE OF TECHNOLOGY

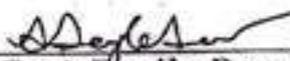
An Autonomous Institution Affiliated to Anna University - Chennai • Approved by AICTE • Accredited by NAAC with "A" Grade  
SATHYAMANGALAM - 638401 ERODE DISTRICT TAMILNADU INDIA  
Ph : 04295 - 225000/221289 Fax : 04295 - 226666 E-mail : stayahead@bitsathy.ac.in Web : www.bitsathy.ac.in

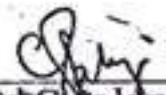
### FIRST INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN (ICAIBC-2023)

This is to certify that Dr. VIJAYAKUMAR S  
has presented the paper entitled Car Parking Space Identifying System using Python

in the INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND  
BLOCKCHAIN (ICAIBC-2023), organized by the Department of Artificial Intelligence  
and Data Science & Department of Artificial Intelligence and Machine Learning,  
Bannari Amman Institute of Technology, Sathyamangalam on 5<sup>th</sup> and 6<sup>th</sup> January  
2023.

  
Dr. T. Kumaresan  
Organizing Secretary

  
Dr. A. Bazila Banu  
Convener

  
Dr. C. Palanisamy  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
M-7, PACHAL Post, NAMAKKAL Dist

11/12/2022



### INTERNATIONAL CONFERENCE

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
**ICRTCSCE- 2022**

This is to certify that **Mr.S.Vijayakumar, AP**  
**, Dept. of E.C.E, Paavai Engineering College, Tamilnadu"**

Has presented the manuscript At Virtual Conference: Google Meet

The International Conference on "Recent Trends in Computer Science and  
Communication Engineering" ICRTCSCE- 2022:: BLENDED MODE  
NRI Institute of Technology (NRIIT) - Medikonduru, Guntur, Andhra Pradesh  
Date: 11 & 12 -DECEMBER-2022:: Google Meet: [meet.google.com/pyz-funv-rek](https://meet.google.com/pyz-funv-rek)

**TITLE: SMART HELMET FOR ACCIDENT AVOIDENCE AND THEFT AVOIDENCE**  
**AUTHORS: MR. S VIJAY KUMAR, MUKILAN R, KANISHKAR M, NAGAMANI D**  
**ISBN-13: 979-8367894165**

*K. Srihari Rao*  
Dr. K. Srihari Rao  
Conference Convener  
ICRTCSCE-2022

*K. Srinivasu*  
Dr. K. Srinivasu  
Principal  
<https://nriit.ac.in/>

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
H.7. PACHAL Post, NAMAKKAL DIST.

*M. Sreedevi*  
Dr. M. Sreedevi  
Organizing Chair  
S.V. University



Vidhya Vihar Institute  
of Technology, Purnea



Global Conference Hub



# CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**Mrs.C. Vanaja**

Associate Professor, PAAVAI ENGINEERING COLLEGE

for attending & giving an Oral Presentation for the paper  
entitled

**Wireless and Solar power Charging for E-vehicles with IoT**

in International Conference on recent trends in Management, Engineering and  
Technology (ICMET-2022) organized by Vidya Vihar Institute of Technology,  
Purnea, Bihar & Global Conference Hub, Tamilnadu, India on 26<sup>th</sup> & 27<sup>th</sup>  
December 2022

**Er. Om Prakash Singh**

Conference Convener  
ICMET - 2022

**PRINCIPAL**

**PAAVAI ENGINEERING COLLEGE**

**14.7 PACHAL Post, NAMAKKAL**

**Dr. Asheshwar Yadav**

Director  
Vidya Vihar Institute of Technology,  
Purnea, India



RSP  
CONFERENCE  
HUB

# Certificate of Appreciation

This Certificate is Proudly Presented To

**Mrs. Samundeeshwar**

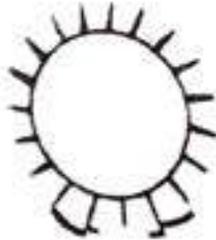
Associate Profesor, Paavai Engineering College

*for attending & giving an Oral Presentation for the paper entitled*  
Design of Smart Antenna system based on Memcapacitor Phase  
shifters

**in Third International Conference on advances in Science & Technology  
(ICOST -2023) organized by Global Conference Hub, Tamilnadu, India on  
28<sup>th</sup> & 29<sup>th</sup> January 2023**

**DR. T.C.MANJUNATH**  
Conference convener  
ICOST - 2023

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
44-7 PACHAL Post, NAMANKAL Dist





# JAI SHRIRAM ENGINEERING COLLEGE



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)  
Dharapuram Road, Avinashipalayam, Tirupur - 638 660.

Department of Mechanical Engineering

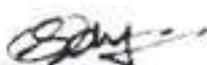
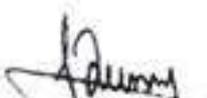
*in technical association with*

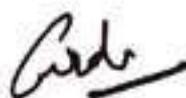


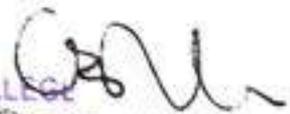
BARANI GROUP COMPANIES, COIMBATORE

## CERTIFICATE OF PARTICIPATION

This Certificate is awarded to Dr ~~Mr~~ ~~Ms~~ Dr.M.Sudha, Professor & Head ..... of  
..... Paavai Engineering College ..... for presenting a paper entitled  
..... Smart enterprises Network using cloud computing .....  
in 2<sup>nd</sup> National Conference on Recent Innovations in Mechanical Engineering (RIME'2K22)  
Organized by the Department of Mechanical Engineering on 18<sup>th</sup> November 2022.

  
Prof. S. Karthikeyan  
  
Prof. P. Rajkumar  
Coordinators

  
Dr. R. J. Golden Renjith  
Convenor

  
PRINCIPAL  
RAAVAI ENGINEERING COLLEGE  
M.C. PACHAL Post, N.D. Taluk, Tirupur  
  
Principal



# 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 TAMILNADU INDIA  
Ph: 04295 - 226000/221299 Fax: 04295 - 226666 E-mail: stayahead@baisathy.ac.in Web: www.baisathy.ac.in

## FIRST INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN (ICAIBC-2023)

This is to certify that Mr. VENKATACHALAM K  
has presented the paper entitled Smart Home Appliance and Control System using Machine Learning

in the INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND  
BLOCKCHAIN (ICAIBC-2023), organized by the Department of Artificial Intelligence  
and Data Science & Department of Artificial Intelligence and Machine Learning,  
Bannari Amman Institute of Technology, Sathyamangalam on 5<sup>th</sup> and 6<sup>th</sup> January  
2023.

Dr. T. Kumaresan  
Organizing Secretary

Dr. A. Hazila Banu  
Convener

Dr. C. Palanisamy  
Principal

PAVAI ENGINEERING COLLEGE  
141-7, PACHAL Post, NAMAKKAL Dist.



# KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)  
(Established Under Section 3 of UGC Act 1956)  
(Accredited with A+ Grade by NAAC in the Second Cycle)  
Pollachi Main Road, Eachanari Post  
Coimbatore - 641 021

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NATIONAL CONFERENCE ON INNOVATIVE ENGINEERING TECHNOLOGIES 2022

### Certificate of Appreciation

This is to certify that Dr./Mr./Ms. Mohana Priya. R  
of Paavai Engineering College has presented  
a paper titled Accident Prevention for Hairpin Bend using Arduino UNO  
in the National Conference on "Innovative Engineering Technologies" (NCIET 2022)  
held at Karpagam Academy of Higher Education, Coimbatore  
on 19<sup>th</sup> December 2022

Mr. P. SUSEENDHAR  
COORDINATOR

Dr. K. G. DHARANI  
HoD/ECE

PRINCIPAL

PAAVAI ENGINEERING COLLEGE  
1147, PACHAL Post, NAMAKKAL Dist.

Dr. A. AMUDHA  
DEAN/FOE



# ST. ANN'S

COLLEGE OF ENGINEERING & TECHNOLOGY - CHIRALA  
(AUTONOMOUS)



<http://sacet.ac.in/>

## INTERNATIONAL CONFERENCE::DUAL MODE

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
**ICIEECE-2023**

This is to certify that **R. BHUVANESHWARI** of  
"Asst. Professor, Dept. of E.C.E, Paavai Engineering College (Autonomous), Namakkal,  
Tamilnadu"

Has presented the manuscript at Virtual Conference:: Google Meet  
"The International Conference on Innovations in Electrical, Electronics & Communication  
Engineering" - ICIEECE-2023:: Dual Mode

St. Ann's College of Engineering & Technology - Chirala, Andhra Pradesh

Dates: 08 - JANUARY - 2023(Online) & 09 - JANUARY - 2023(Offline)

Google Meet: [meet.google.com/cjh-tipw-owd](https://meet.google.com/cjh-tipw-owd)

TITLE: IOT BASED SMART WATER POLLUTION MONITORING SYSTEM

AUTHORS: M. AJAYKUMAR, R. HARIPRASANATH, R. GOKULAKRISHNAN, R. BHUVANESHWARI

ISBN-13: 979-8372932128

Dr. K. Jagadeesh Babu  
Conference Convener  
ICIEECE-2023

Dr. M. Venu Gopala Rao  
Principal

<http://sacet.ac.in/>

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
CHIRALA, CHIRALA, ANDHRA PRADESH

Dr. Parameshachari B D  
Organizing Chair  
NMIT, Bangalore



## CERTIFICATE OF PRESENTATION

This is to certify that

**Dr. N. ANGAYARKANNI**

*"Professor, Dept. of Electronics and Communication Engineering, Paavai Engineering College"*

THE VIRTUAL INTERNATIONAL CONFERENCE

ON

ADVANCES IN ENGINEERING AND WEB OF THINGS - ICAEWoT -2022

Organized by National Institute of Computing, Majestic, Bangalore, Karnataka, India

DATE: 04-DECEMBER-2022:: GOOGLE MEET:: <https://meet.google.com/nmn-ddsr-ffz?hs=224>

Paper ID: **NIC-ICAEWoT-2022-006** Presentation Schedule: 10:21 Am - 10:30 Am

Paper Title: "DETECTION OF DRIVER DROWSINESS USING IMAGE PROCESSING"

Author(s): GOPI S. HARISANJANA, Dr. N. ANGAYARKANNI

Mr. K. Hemasundararao  
GENERAL CHAIR  
CECC, Chirala

Er. M. Sivudu  
SESSION CHAIR  
PACE IIS, Ongole

Dr. J. Ravindra  
TECHNICAL CHAIR  
BEC, BAPATIYA

Dr. D. Rajendra Prasad  
CONFERENCE CHAIR  
SACET, CHIRALA

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
IBLT PACHAL Post, NAMAKI

NIC:: <https://www.nicsdt.com/>

ISBN-13: [979-8-3668-5750-5](https://www.isbn-international.org/number/979-8-3668-5750-5)

Google Meet Link: <https://meet.google.com/nmn-ddsr-ffz?hs=224>



# Certificate

OF PUBLICATION

This is Awarded to:

**Sudha M**

For the paper titled

**NON HYDRAULIC SOLAR PANEL SLANG**

Published in International Journal of Engineering Technology and Management Sciences (IJETMS)  
Vol-06 Issue-06 November-December 2022. DOI: 10.46647/ijetms.2022.v06i06.101 ISSN: 2581-4621

B. J.

B. Mahesh  
Editor-in-Chief

PAAVAI ENGINEERING COLLEGE  
1417, PACHAL Post, NAMAKKAL Dis.



Metadata from  
Crossref



ROAD



**CERTIFICATE OF PRESENTATION**

This is to certify that

**S. VIJAY MURUGAN**

*"Asst. Professor, Dept.of. Electronics & Communication engineering, Paavai Engineering College"*

THE VIRTUAL INTERNATIONAL CONFERENCE  
ON

ADVANCES IN ENGINEERING AND WEB OF THINGS - ICAEWoT -2022

Organized by National Institute of Computing, Majestic, Bangalore, Karnataka, India

DATE: 04-DECEMBER-2022:: GOOGLE MEET:: <https://meet.google.com/nmn-ddsr-ffz?hs=224>

Paper ID:: **NIC-ICAEWoT-2022-021**:: Presentation Schedule:: 12:51 Pm - 01:00 Pm

Paper Title: "SOUND RECHARGEABLE POWER BANK "

Author(s): SNEGA S. PRIYADHARSHINI S, NAVEENA V K, S. VIJAY MURUGAN

Mr. K. Hemasundararao  
GENERAL CHAIR  
CECC, Chirala

Er. M. Sivudu  
SESSION CHAIR  
PACE ITS, Ongole

Dr. J. Ravindra  
TECHNICAL CHAIR  
BEC, BAPATLA.

Dr. D. Rajendra Prasad  
CONFERENCE CHAIR  
SACET, CHIRALA

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
14-7, PACHAL Post, NAMAKKAL Dis

NIC:: <https://www.nicsdt.com/>

ISBN-13: [979-8-3668-5750-5](https://www.isbn-international.org/product/9798366857505)

Google Meet Link: <https://meet.google.com/nmn-ddsr-ffz?hs=224>

11/12/2022



**INTERNATIONAL CONFERENCE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
**ICRTCSCE- 2022**

This is to certify that "DR. R MOHANA PRIYA" of  
"Assc. Professor, Dept. of E.C.E, Paavai Engineering College, Namakkal, Tamilnadu "  
Has presented the manuscript At Virtual Conference:: Google Meet  
The International Conference on "Recent Trends in Computer Science and  
Communication Engineering" ICRTCSCE- 2022:: BLENDED MODE  
NRI Institute of Technology (NRIIT) - Medikonduru, Guntur, Andhra Pradesh  
Date: 11 & 12 -DECEMBER-2022:: Google Meet: [meet.google.com/pyz-funv-rek](https://meet.google.com/pyz-funv-rek)

**TITLE:** SMART SYSTEM FOR AGRICULTURAL GREENHOUSE MANAGEMENT

**AUTHORS:** DR. R MOHANA PRIYA, SMITHA M, THARANI K, SOWMIYA K

**ISBN-13:** 979-8367894165

*K. Srihari Rao*  
Dr. K. Srihari Rao  
Conference Convener  
ICRTCSCE-2022

*K. Srinivasu*  
Dr. K. Srinivasu  
Principal  
<https://nriit.ac.in/>

*M. Sreedevi*  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
UN-7, PACHAL Post, NAMAKKAL

Dr. M. Sreedevi  
Organizing Chair  
S.V. University



<http://sacet.ac.in/>

**INTERNATIONAL CONFERENCE::DUAL MODE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of **ICIEECE-2023**

This is to certify that 'Mr. S. SATHEESHKUMAR' of "Asst. Professor, Dept. of E.C.E, Paavai Engineering College (Autonomous), Tamil Nadu"

Has presented the manuscript at Virtual Conference:: Google Meet -The International Conference on Innovations in Electrical, Electronics & Communication Engineering" - ICIEECE-2023:: Dual Mode

St. Ann's College of Engineering & Technology - Chirala, Andhra Pradesh  
Dates: 08 - JANUARY - 2023(Online) & 09 - JANUARY - 2023(Offline)

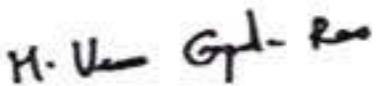
Google Meet: [meet.google.com/cih-tipw-owd](https://meet.google.com/cih-tipw-owd)

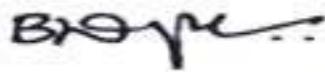
TITLE: INSTRUCTIVE WALL PAINTING BOT

AUTHORS: MR. S. SATHEESHKUMAR, S. SRINITHI GAYATHRI, S. VINISHA

ISBN-13: 979-8372932128

  
Dr. K. Jagadeesh Babu  
Conference Convener  
ICIEECE-2023

  
Dr. M. VenuGopala Rao  
Principal  
<http://sacet.ac.in/>

  
Dr. Parameshchari B D  
Organizing Chair  
NMIT, Bangalore

PAVAI ENGINEERING COLLEGE  
107, PACHAL Post, NAMAKKAL Dist



# JAI SHRIRAM ENGINEERING COLLEGE



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)  
Dharapuram Road, Avinashipalayam, Tirupur - 638 660.

Department of Mechanical Engineering

*in technical association with*



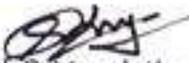
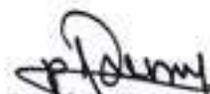
BARANI GROUP COMPANIES, COIMBATORE

## CERTIFICATE OF PARTICIPATION

This Certificate is awarded to Dr /Mr /Ms..... Sathesh Kumar . S..... of

..... Paavai Engineering College, Namakkal for presenting a paper entitled  
..... Inviolability of Gas Leakage Puckon Using Csm module.....  
in 2<sup>nd</sup> National Conference on Recent Innovations in Mechanical Engineering (RIME'2K22)

Organized by the Department of Mechanical Engineering on 18<sup>th</sup> November 2022.

  
Prof. S. Karthikeyan  
  
Prof. F. Rajkumar  
Coordinators

  
Dr. R. J. Golden Renjith Nimal  
Convenor

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7 PACHAL Post, NAMAKKAL  
Dr. C. Rameshkumar  
Principal

11/12/2022



### INTERNATIONAL CONFERENCE

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
**ICRTCSCE- 2022**

This is to certify that "MR. S. LOGANATHAN" of  
"Asst. Professor, Dept. of E.C.E, Paavai Engineering College, Tamilnadu"

Has presented the manuscript At Virtual Conference:: Google Meet

The International Conference on "Recent Trends in Computer Science and  
Communication Engineering" ICRTCSCE- 2022:: **BLENDED MODE**

**NRI Institute of Technology (NRIIT) - Medikonduru, Guntur, Andhra Pradesh**

Date: 11 & 12 -DECEMBER-2022:: Google Meet: [meet.google.com/pyz-funv-rek](https://meet.google.com/pyz-funv-rek)

**TITLE: SMART ENERGY METER USING IOT**

**AUTHORS: MR. S. LOGANATHAN, SWATHIGA. G. V, SOBANA. M, SHEELA JENEFER. A**

**ISBN-13: 979-8367894165**

*K Srihari Rao*  
Dr. K. Srihari Rao  
Conference Convener  
ICRTCSCE-2022

*K Srinivasu*  
Dr. K. Srinivasu  
Principal  
<https://nriit.ac.in/>

*Pr*  
**PRINCIPAL**  
**PAVAI ENGINEERING COLLEGE**  
**VALI 7, PACHAL Post, NAMAKKAL Dt**

*S.V. University*  
Dr. M. Sreedevi  
Organizing Chair  
S.V. University



**RSP  
CONFERENCE  
HUB**  
1987-19-87



# CERTIFICATE

## OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

### SATHISH S

Assistant Professor, Paavai Engineering College

for attending & giving an Oral Presentation for the paper  
entitled

**SELF CIRCUITRY PERCEPTION FOR PHYSICAL ENVIRONS**

in Second International Conference on Multidisciplinary in Research and  
Innovation (ICMRI - 2022) - Online organized by Kishori Raman PG College,  
Mathura, Uttar Pradesh and RSP Conference Hub, Coimbatore, India on 26th  
& 27th November'22

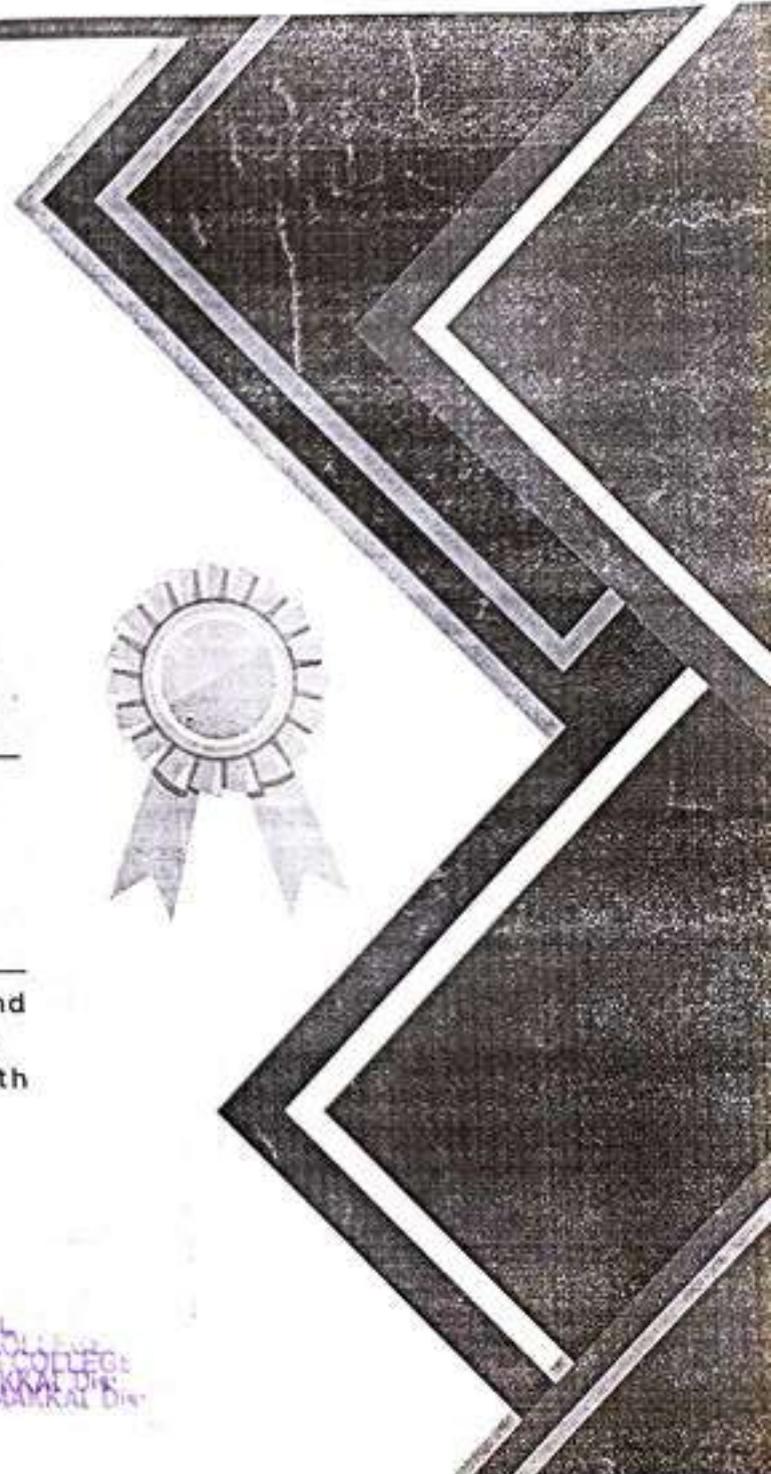
**Dr. Mamta Rani  
Kaushik**

Conference Convener  
ICMRI-2022  
Assistant Professor,  
K.R.(P.G.) College, Mathura

**Prof Praveen Kumar  
Agrawal**

Principal  
Patron, ICMRI - 2022  
K.R.(P.G.) College, Mathura

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
117, PACHAL PO, NAMAKKAL DIST.





# Certificate of Appreciation

This Certificate is Proudly Presented To  
**Mr. VENKATACHALAM K**

*for attending & giving an Oral Presentation for the paper entitled*  
**ENVIRONMENTAL CHICKEN HOUSE MONITORING**

*in Fourth International Conference on Innovation in Engineering Sciences (ICIES)*  
*Organized by Techno Engineering College, Banipur and Global Conference Hub,*  
*Banipur, India on 25<sup>th</sup> & 26<sup>th</sup> February 2023*

*Dr. Maloy Kumar Chandra*  
Principal  
Techno Engineering  
College, Banipur

*Avijit Kumar Chaudhury*  
Head of Department  
Techno Engineering  
College, Banipur

*Dr. Indrajit Sadhukhan*  
Conference convener

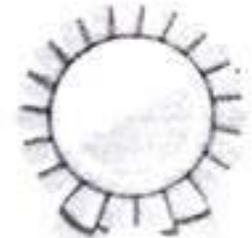
PRINCIPAL ICIES - 2023  
PAVAI ENGINEERING COLLEGE  
PACHAI POSE NAMAKKAI



Vidhya Vihar Institute  
of Technology, Purnea



Global Conference Hub



# CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**NANDHAKUMAR G**  
Assistant Professor, Paavai Engineering college

*for attending & giving an Oral Presentation for the paper  
entitled*

**Smart preventive insole for diabetes**

In International Conference on recent trends in Management, Engineering and  
Technology (ICMET-2022) organized by Vidya Vihar Institute of Technology,  
Purnea, Bihar & Global Conference Hub, Tamilnadu, India on 26<sup>th</sup> & 27<sup>th</sup>  
December 2022

**Er. Om Prakash Singh**  
Conference Convener  
ICMET - 2022

**Dr. Asheshwar Yadav**  
Director  
Vidya Vihar Institute of Technology,  
Purnea, India

PAAVAI ENGINEERING COLLEGE  
JH-7 PACHAL Post, NAMAKKAL Dist



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Mr.S.SATHIS**

**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

**"GPS BASED VEHICLE THEFT IDENTIFICATION SYSTEM BASED ON GSM"**

In the International Conference organized by Paaval Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
PRINCIPAL

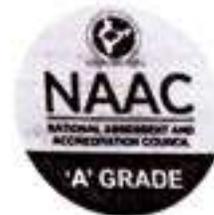
  
Director-Admin

NH.7 PACHAL Post, NAMAKKAL - 637 018



# ST. ANN'S

COLLEGE OF ENGINEERING & TECHNOLOGY - CHIRALA  
(AUTONOMOUS)



<http://sacet.ac.in/>

## INTERNATIONAL CONFERENCE::BLENDED MODE

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
ICRTCSE -2023

This is to certify that "Dr. S. VIJAYAKUMAR" of  
"Professor, Dept. of E.C.E, Paavai Engineering College, Tamil Nadu"

Has presented the manuscript at Virtual Conference:: Google Meet  
"The International Conference on "Recent Trends in Computer Science and Engineering" -  
ICRTCSE-2023:: Blended Mode

St. Ann's College of Engineering & Technology - Chirala, Andhra Pradesh

Dates: 19 - FEBRUARY - 2023(Online) & 20 - FEBRUARY - 2023(Offline)

Google Meet: [meet.google.com/rto-lexq-sxi](https://meet.google.com/rto-lexq-sxi)

TITLE: TRAFFIC LIGHT MANAGEMENT SYSTEM

AUTHORS: Dr. S. VIJAYAKUMAR, SANJAY M, VENKATESH G S, VIGNESH M

ISBN-13: 979-8378014330

Dr. P. Harini  
Conference Convener  
ICRTCSE-2023

Dr. M. VenuGopala Rao

Principal

<http://sacet.ac.in/>

Dr. M Sreedevi

Organizing Chair

SV University, Tirupati

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
CHIRALA  
PAVALI PACHAL PO, NAMAKKAL DIST



## **CERTIFICATE OF PRESENTATION**

This is to certify that

**Dr. N. ANGAYARKANNI**

*"Professor, Dept. of Electronics and Communication Engineering, Paavai Engineering College"*

THE VIRTUAL INTERNATIONAL CONFERENCE

ON

ADVANCES IN ENGINEERING AND WEB OF THINGS - ICAEWoT -2022

Organized by National Institute of Computing, Majestic, Bangalore, Karnataka, India

DATE: 04-DECEMBER-2022:: GOOGLE MEET:: <https://meet.google.com/nmn-ddsr-ffz?hs=224>

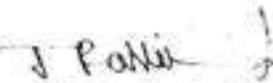
Paper ID: **NIC-ICAEWoT-2022-010**:: Presentation Schedule:: 11:01 Am - 11:10 Am

Paper Title: "SECURED E-VOTING SYSTEM USING TWO FACTOR BIOMETRIC AUTHENTICATION"

Author(s): SANJAY A. RAJARAJAN.R, OMNATH BALAJIE, Dr. N. ANGAYARKANNI

  
Mr. K. Hemasundarao  
GENERAL CHAIR

  
Er. M. Sivudu  
SESSION CHAIR

  
Dr. J. Ravindra  
TECHNICAL CHAIR

Dr. D. Rajendra Prasad  
CONFERENCE CHAIR  
SAVEDI CHIRALA

NIC:: <https://www.nicsdi.com>

ISBN-13 979-8-3668-5750-5

Google Meet Link: <https://meet.google.com/nmn-ddsr-ffz?hs=224>

PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist.



<http://sacet.ac.in/>

**INTERNATIONAL CONFERENCE::DUAL MODE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
**ICIEECE-2023**

This is to certify that Mr.S.Vijayakumar, ASP  
Dept. of E.C.E, Paavai Engineering College (Autonomous), Namakkal, Tamilnadu"

Has presented the manuscript at Virtual Conference:: Google Meet  
"The International Conference on Innovations in Electrical, Electronics & Communication  
Engineering" - ICIEECE-2023:: Dual Mode

St. Ann's College of Engineering & Technology - Chirala, Andhra Pradesh

Dates: 08 - JANUARY - 2023(Online) & 09 - JANUARY - 2023(Offline)

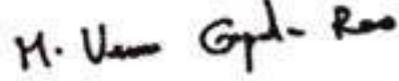
Google Meet: [meet.google.com/cih-tjpw-owd](https://meet.google.com/cih-tjpw-owd)

TITLE: Bridge Crack Identification and Monitoring using IOT

AUTHORS: ARUN E, BHARATH S, GOPINATH P, MR. S LOGANATHAN

ISBN-13: 979-8372932128

  
Dr. K. Jagadeesh Babu  
Conference Convener  
ICIEECE-2023

  
Dr. M. VenuGopala Rao  
Principal  
<http://sacet.ac.in/>

  
Dr. Parameshachari B  
Organizing Chair  
NMIT, Bangalore

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
4th.7 PACHAL Post, NAMAKKAL Dist.

11/12/2022



**INTERNATIONAL CONFERENCE**

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
**ICRTCSCE- 2022**

This is to certify that "**Dr.M.SUDHA**" of  
"Professor, Dept. of E.C.E, Paavai Engineering College, Namakkal, Tamilnadu"  
Has presented the manuscript At Virtual Conference: Google Meet  
**The International Conference on "Recent Trends in Computer Science and  
Communication Engineering" ICRTCSCE- 2022:: BLENDED MODE  
NRI Institute of Technology (NRIIT) - Medikonduru, Guntur, Andhra Pradesh  
Date: 11 & 12 -DECEMBER-2022:: Google Meet: [meet.google.com/pyz-funv-rek](https://meet.google.com/pyz-funv-rek)**

**TITLE:** IOT BASED SMART HELMET FOR MINING INDUSTRY APPLICATION

**AUTHORS:** Dr.M.SUDHA, SANTHOSHKUMAR V, SATHIS KUMAR R, THEPANRAJ R

**ISBN-13:**979-8367894165

*K. Srihari Rao*  
Dr. K. Srihari Rao  
Conference Convener  
ICRTCSCE-2022

*K. Srinivasu*  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
W-7. PACHAL Post. NAMAKKAL  
Dr. K. Srinivasu  
Principal  
<https://nriit.ac.in/>

*M. Sreedevi*  
Dr. M. Sreedevi  
Organizing Chair  
S.V. University

# I ISET

This is to certify that

**DR. M. SUDHA**

"Professor, Dept. of ECE, Paavai Engineering College, Tamil Nadu"

THE INTERNATIONAL CONFERENCE

ON

Recent Trends in Emerging Technologies and Engineering – ICRTETE – 2023

Organized by International Institute of Smart Engineering and Technology, Madhapur, Hyderabad, India

DATE:05-FEBRUARY-2023::GOOGLE MEET

Google Meet: [meet.google.com/mixnd-evsq-sxp](https://meet.google.com/mixnd-evsq-sxp)

Paper Title: **DETECTION OF LANDMINES USING IOT**

Author(s): KOKANTI PAVANKUMAR, NARUBOINA CHARANSAL, THAMBU GANESH, DR. M. SUDHA

ISBN-13: 979-8376373958

Er. K. Hema Sundararao  
General Chair  
ICRTETE - 2023

Er. M. Sivudu  
Session Chair  
PACE, ITS, Ongole

Dr. T. PhaniMadhavi  
Organizing Chair  
BEC, Bapatla, AP

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
JH-7, PACHAL Post, NAMAKKAL



**NRISSET**

**CERTIFICATE OF PRESENTATION**

This certificate is presented to

**Mr.S.Vijayakumar**

**"Associate Professor, Department of ELECTRONICS AND COMMUNICATION ENGINEERING,  
PAAVAI Engineering College, Tamil Nadu"**

**THE VIRTUAL INTERNATIONAL CONFERENCE ON  
ADVANCED RESEARCH ON MULTIDISCIPLINARY PERSPECTIVES IN ENGINEERING & TECHNOLOGY-ICARMPET : 2023  
DATE:22-JANUARY-2023: GOOGLE MEET**

**Organized by National Research in Science and Engineering Technology, Hyderabad, India**

Paper Title: "Prediction Of Fake Transaction On Credit Card Using Machine Learning And Deep Learning With Visual Studio "

Author(s): Sri Krishn, K<sup>1</sup>, Sri Viknesh.S<sup>2</sup> ,Udhayanithi.E<sup>3</sup>

Session Chair

Dr. Abhay Bhatia

Roorkee Institute of Technology

organized Chair : Dr. Ashok Matani

ISBN-13: 9798374671032

Google Meet: <https://meet.google.com/kfc-aipn-cnq>

Conference Convener

Dr. Mourya

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
H.L. PACHAL Post, NAMAKKAL Dis.



# CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

**Mrs.S.Usha, AP**

**,Paavai engineering college**

for her contribution in the field of  
entitled  
**Design and development of an EOG-based system to control  
wheelchair for people suffering from quadriplegia or quadriparesis**

in International Conference on recent trends in Management, Engineering and  
Technology (ICMET-2022) organized by Vidya Vihar Institute of Technology,  
Purnea, Bihar & Global Conference Hub, Tamilnadu, India on 26<sup>th</sup> & 27<sup>th</sup>  
December 2022

**Er. Om Prakash Singh**

Conference Convener  
ICMET - 2022

**PRINCIPAL**  
**PAAVAI ENGINEERING COLLEGE**  
JH.7 PACHAL Post, NAMAKKAI - 625 004

**Dr. Asheshwar Yadav**

Director  
Vidya Vihar Institute of Technology,  
Purnea, India



GLOBAL  
CONFERENCE  
HUB

# Certificate of Appreciation

This Certificate is Proudly Presented To

**Dr.R.Pushpavalli**

Associate Professor , Paavai Engineering College

*for attending & giving an Oral Presentation for the paper entitled*  
IOT BASED ANTI-POACHING AND FIRE ALARM SYSTEM

in Third International Conference on advances in Science & Technology  
(ICOST -2023) organized by Global Conference Hub, Tamilnadu, India on  
28<sup>th</sup> & 29<sup>th</sup> January 2023

**DR. T.C.MANJUNATH**  
Conference convener

ICOST - 2023

**PRINCIPAL**  
PAAVAI ENGINEERING COLLEGE  
IN-7, PACHAL Post, NAMAKKAL Dist.

11/12/2022



### INTERNATIONAL CONFERENCE

This Certificate is issued on behalf of publication of your manuscript in the proceedings of  
**ICRTCSCE- 2022**

This is to certify that "Mrs.A.Samundeeshwari, ASP

Dept. of E.C.E, Paavai Engineering College, Namakkal, Tamilnadu"

Has presented the manuscript At Virtual Conference:: Google Meet

The International Conference on "Recent Trends in Computer Science and  
Communication Engineering" ICRTCSCE- 2022:: BLENDED MODE

NRI Institute of Technology (NRIIT) - Medikonduru, Guntur, Andhra Pradesh

Date: 11 & 12 -DECEMBER-2022:: Google Meet: [meet.google.com/pyz-funv-rek](https://meet.google.com/pyz-funv-rek)

TITLE: UNDERWATER IMAGE ENHANCEMENT

AUTHORS: A SAMUNDEESWARI, SRIVISHNU I, RAGUL T

ISBN-13: 979-8367894165

*K. Srihari Rao*

Dr. K. Srihari Rao  
Conference Convener  
ICRTCSCE-2022

*[Signature]*

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
14-7 PACHAL Post, NAMAKKAL

*K. Srinivasu*

Dr. K. Srinivasu  
Principal  
<https://nriit.ac.in/>

*M. Sreedevi*

Dr. M. Sreedevi  
Organizing Chair  
S.V. University

# Certificate of Appreciation

This Certificate is Proudly Presented To

**Mrs.T.Shanthi**

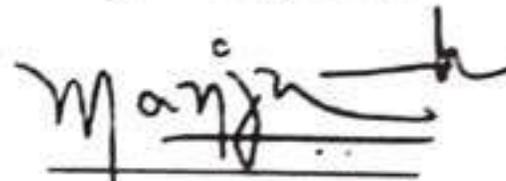
Assistant Professor, Paavai Engineering College

*for attending & giving an Oral Presentation for the paper entitled  
Wearable device for precision healthcare monitoring system*

**in Third International Conference on advances in Science & Technology  
(ICOST -2023) organized by Global Conference Hub, Tamilnadu, India on  
28<sup>th</sup> & 29<sup>th</sup> January 2023**



PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
1047 PACHAL Post, NAMAKKAL, TN



DR. T.C.MANJUNATH  
Conference convener  
ICOST - 2023



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Mrs.S.USHA**

**PAAVAI ENGINEERING COLLEGE**

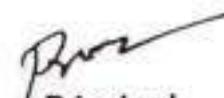
Presented a paper entitled

"SMART TRAIN"

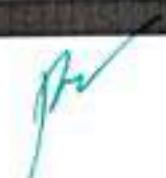
In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu

on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
Director - Admin



PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-44, PACHAL POST, NAMAKKAL DIST.



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

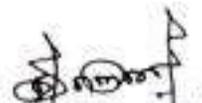
**Mr.S.VIJAY KUMAR**

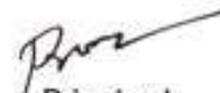
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

**\*GAS LEAKAGE DETECTION SYSTEM USING SENSOR\***

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
Director - Admin

  
**PRINCIPAL**  
**PAAVAI ENGINEERING COLLEGE**  
NH-7 PACHAL Post, NAMAKKAL DIST.



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Dr. R. MOHANAPRIYA.**

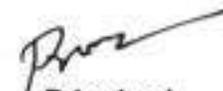
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"LOAD SHARING USING PLC MICROCONTROLLER"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
Director - Admin

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-44 PACHAL Post, NAMAKKAL Dist.



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Dr .S.VIJAY KUMAR**

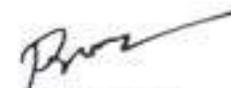
**PAAVAI ENGINEERING COLLEGE**

Presented a paper entitled

"ELECTRONIC DIRECTION DETECTOR USING ES"

In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
Director - Admin

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH.7, PACHAL Post, NAMAKKAL Dis.



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**DR R MOHANA PRIYA**  
for successfully completing the course

## Training and Development

with a consolidated score of **97** %

Online Assignments	23.75/25	Proctored Exam	73.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **2530**

Jan-Apr 2023  
(12 week course)

PRINCIPAL

PAAVAI ENGINEERING COLLEGE  
1147, PACHAL Post, NAMAKKAI Dist.

*Debjani Chak*  
Prof. Debjani Chak  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SATHISH S**

for successfully completing the course

## Training and Development

with a consolidated score of **92** %

Online Assignments	24.38/25	Proctored Exam	67.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **2530**

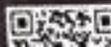
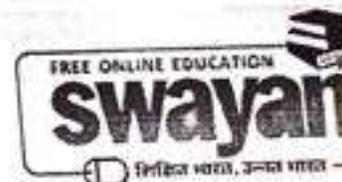
Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur

Principal  
PAAVAI ENGINEERING COLLEGE  
VIL7, PACHAL Post, NAMANKAL Dist





# PERIYAR UNIVERSITY

NAAC A++ Grade - State University - NIRF Rank 63 - ARIIA Rank 10  
Salem - 636 011, Tamil Nadu, India



National Conference on

## Recent Trends in Sustainable Energy and Environment Research (NCRTSEER-2023)

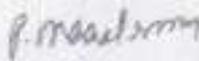
Organized by

Department of Energy Science and Technology

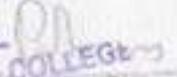
### Certificate

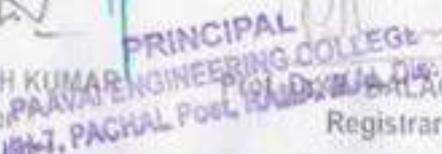
This is to certify that Dr./Mr./Ms. S.T. KUMARAJEI, Faculty, Department of Mechanical Engineering, Paavai Engineering College has participated / presented paper in the National Conference on Recent Trends in Sustainable Energy and Environment Research (NCRTSEER-2023) held at Department of Energy Science and Technology, Periyar University, Salem - 636 011, Tamil Nadu on March 30, 2023.

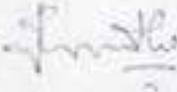
Title(Oral/Poster): IMPACT OF REINFORCEMENT OF THE MECHANICAL PROPERTIES OF AN ALUMINIUM METAL MATRIX COMPOSITE MADE OF ALUMINIUM TDT5.

  
Dr. P. MAADESWARAN  
Organizing Secretary

  
Dr. K. A. RAMESH KUMAR  
Convener

  
P. D. BALAGURUNATHAN  
Registrar (FAC)

  
PAVAI ENGINEERING COLLEGE  
187, PACHAL POOL ROAD, SALEM - 636 011

  
Prof. Dr. R. JAGANNATHAN  
Vice Chancellor



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Anand.K**

Paavai Engineering College

Presented a paper entitled

"A Review Study on the Bicycle with a Shaft Drive"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
PRINCIPAL

  
Director - Admin

PAAVAI ENGINEERING COLLEGE  
NH-44, PACHAL, NAMAKKAL, DIST.



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Dr.V.Subburam**

Paavai Engineering College

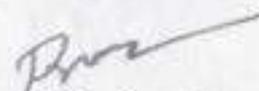
Presented a paper entitled

**"Design and Analysis of Liquid Suction Heat Exchanger in a Vapour Compression Refrigeration System"**

In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu

on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NAMAKKAL

  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(5th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

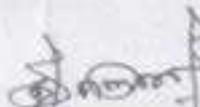
**Dr.S.Maniraj**

Paavai Engineering College

Presented a paper entitled

"Design and Fabrication of Cam Operated Reciprocating Vice"

In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023.

  
Convener

  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
PACHAL, P.O., NAMAKKAL DIST.

  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

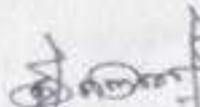
**Dr.C.Suresh**

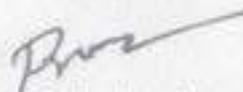
Paavai Engineering College

Presented a paper entitled

"Investigation of factors influencing the wear resistance of an Al-6061 material composite coating made of alumina and zirconia stable titania"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu

  
Convener

  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-44, PACHAL Post, NAMAKKAL  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**S.Prabhakaran**

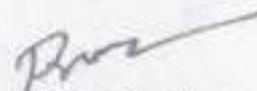
Paavai Engineering College

Presented a paper entitled

"Design and Fabrication of Cam Operated Reciprocating Vice"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu  
on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-44, PACHAL Post, NAMAKKAL Dt.

  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Dr.K.Sundaramurthy**

Paavai Engineering College

Presented a paper entitled

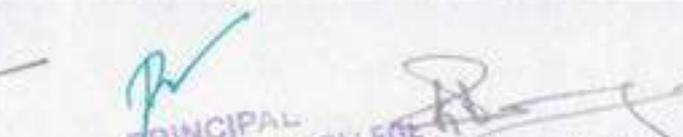
"Design and Testing of Improving Foot Control Handycaped Vechicle with Steering System"

In the International Conference organized by Paavai Engineering College (Autonomous) , Namakkal, Tamil Nadu

on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
PACHAL, P.O. NAMAKKAL  
Director - Admin



**PAAVAI ENGINEERING COLLEGE**

(AUTONOMOUS)

NH-44, Pachal, Namakkal - 637 018.



INSTITUTION'S  
INNOVATION  
COUNCIL

**ICATS - 2023**

(8th Edition)

International Conference on Adaptive Technologies for Sustainable Growth (Online Mode)

17<sup>th</sup> March 2023

## CERTIFICATE OF PARTICIPATION

This is to certify that

**Dr.M.Makesh**

Paavai Engineering College

Presented a paper entitled

"Modelling and Simulation of Solar Water Heater Integrated with as Phase Change Material"

In the International Conference organized by Paavai Engineering College (Autonomous), Namakkal, Tamil Nadu

on 17<sup>th</sup> March 2023

  
Convener

  
Principal

  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-44, PACHAL, NAMAKKAL Dis

  
Director - Admin



DEPARTMENT OF MECHANICAL ENGINEERING

*In association with*

The Institution of Engineers (India)

# Certificate of Participation

This is to certify that Mr. V.SENTHIL KANNAN of Paavai Engineering College has actively participated in the International Faculty Development Program on "Futuristic Research in Mechanical Engineering" organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from 08<sup>th</sup> August to 13<sup>th</sup> August 2022.

Handwritten signature of Dr. G. Prabhakaran in black ink.

Dr. G. Prabhakaran

VP (Academics) & HoD / Convener

Handwritten signature of the Principal in blue ink.

PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
PACHAL Post, NAMAKKAL Dist.

Handwritten signature of Dr. M. Murali Krishna in black ink.

Dr. M. Murali Krishna

Dean (E&T)



DEPARTMENT OF MECHANICAL ENGINEERING

*In association with*

The Institution of Engineers (India)

# Certificate of Participation

This is to certify that Dr.S.T.Kumaravel of Paavai Engineering College has actively participated in the International Faculty Development Program on "Futuristic Research in Mechanical Engineering" organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from 08<sup>th</sup> August to 13<sup>th</sup> August 2022.

Handwritten signature of Dr. G. Prabhakaran in black ink.

Dr. G. Prabhakaran

VP (Academics) & HoD / Convener

Handwritten signature of the Principal in blue ink.

PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
1247, PACHAL PO, NAMAKKAL 54

Handwritten signature of Dr. M. Murali Krishna in black ink.

Dr. M. Murali Krishna

Dean (E&T)



## A parametric study on laser square hole machining of AA7475/SiC/ZrSiO<sub>4</sub> composites

V. Senthil Kannan<sup>a,\*</sup>, K. Lenin<sup>b</sup>, J. Sujith Kumar<sup>a</sup>

<sup>a</sup>Department of Mechanical Engineering, Parvati Engineering College, Nemakkal 627018, TamilNadu, India

<sup>b</sup>Department of Mechanical Engineering, K. Ramakrishnan College of Engineering, Tiruchy 621112, TamilNadu, India

### ARTICLE INFO

Article history:  
Available online xxx

Keywords:  
Aluminium  
Silicon carbide  
Zirconium silicate  
Laser

### ABSTRACT

The square hole machining on aluminium-based hybrid composite for laser process has been a difficult process due to the difference in base material and reinforcement properties. Hence, this work aims on study of laser machining factors namely laser trepanning speed, laser power and standoff distance are selected as inputs. Square holes are fabricated on SiC and ZrSiO<sub>4</sub> reinforced with Aluminium Alloy (AA7475). The performance measures, material removal rate and taper angle are selected as responses. The combined objective based genetic algorithm is used for finding optimum process parameters. The analysis found that the 13.63% material removal rate and 15.27% taper angle are improved percentages using a combined objective based genetic algorithm.

© 2022 Elsevier Ltd. All rights reserved.

Selection and peer-review under responsibility of the scientific committee of the International Conference on Advanced Materials and Modern Manufacturing

### 1. Introduction

Metal matrix composites (MMCs) have recently developed as composite materials through addition of aluminium with silicon carbide. Compared to other metals and alloys, the major benefits of MMCs are improved properties such as superior wear properties, better strength to wear ratio, high modulus, high-temperature resistance and better corrosion resistance [1]. These properties have enabled the use of aerospace, automotive, electronics and consumer goods. MMCs have limited applications due to low machinability [2]. Different hard reinforcement particles were added to the matrix for the improvement of properties/machinability of MMCs. Reinforcement particles including silicon nitride, boron, silicon carbide, silica sand, magnesium oxide, glass beads, titanium carbide and boron carbide were added to the matrix. B<sub>4</sub>C, SiC and Al<sub>2</sub>O<sub>3</sub> were mixed effectively to the molten aluminium. Hence, SiC was selected as one of the reinforced materials. Among the various reinforcement particles, Zircon is identified as promising reinforced due to its high melting point and refractoriness and its high resistance to abrasion, impact and sudden volume changes at elevated temperatures. ZrSiO<sub>4</sub> was selected as another

reinforced to the matrix. For getting the desired shape, Tool based machining and non-contact machining was used. Tool based machining of MMCs is difficult owing to the high abrasive nature of silicon carbide. High tool wear and burr formation was observed in the tool based machining on MMCs [3]. Hence, non-contact machining was selected for processing on MMCs [4]. In the abrasive water jet process on 7075 Aluminium based MMC, 1.77 µm surface roughness and 0.17° taper angle was obtained [5]. Similarly, in the electrical discharge machining on AAG351/ 5.35K/ 10%SiC MMC, 4.54 µm surface roughness was obtained [6]. The laser machining of Aluminium Alloy Metal Matrix Composite (AMMC) is a difficult process due to alterations in the physical properties [7]. Hence, a laser based machining process on AMMC was selected. SiC and ZrSiO<sub>4</sub> were selected as reinforcement in the AMMC fabrication. Al<sub>2</sub>O<sub>3</sub> was added to aluminium alloy for improving the surface quality of composite. The results showed improvement in the surface quality of composite due to the increase in wear resistance of composite [8]. Addition of Al<sub>2</sub>O<sub>3</sub> and SiC reinforcement was made to the matrix for obtaining the hole diameter of MMC. The results showed an increase in laser power from 800 W to 2000 W, the diameter varied from 0.692 mm to 0.741 mm due to the millisecond continuous wave laser drilling [9]. The selection of laser sources also greatly affected the quality characteristics of machined dimension and surface due to the different metal removal phenomenon. Hence, previous

\* Corresponding author.

E-mail addresses: vsk2019@gmail.com (V. Senthil Kannan), leninrajap@yahoo.com (K. Lenin), sujithkumarjeyaraman@yahoo.com (J. Sujith Kumar).

https://doi.org/10.1016/j.matpr.2022.05.405

2214-7853/© 2022 Elsevier Ltd. All rights reserved.

Selection and peer-review under responsibility of the scientific committee of the International Conference on Advanced Materials and Modern Manufacturing

PRINCIPAL  
PARVATI ENGINEERING COLLEGE  
147, PACHAL POOL, NEMAKKAL, INDIA