

Frequency Regulation of Interconnected Power Generating System Using Ant Colony Optimization Technique Tuned PID Controller

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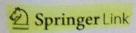
Part of the Lecture Notes in Electrical Engineering book series (LNEE, volume 822)

Abstract

Ant colony optimization technique (ACO) is proposed for frequency regulation of single area power generating network. The proposed system consists of thermal power generating system with reheater, turbine, governor, hydrogen aqua electrolyzer (HAE), and fuel cell (FC). Proportional—integral—derivative (PID) regulator acts as an auxiliary regulator to maintain the frequency deviation during unexpected load demand. The proposed PID controller gain values are tuned by utilizing ACO tuned PID regulator with ITAE objective function. To show the superiority of the ACO technique and the performance, responses were equated with conventional method PID controller's results for the identical power network. The dynamic performance of the suggested ACO-PID regulator gives improved response over conventional PID in terms of quick settling time.

Keywords

Ant colony optimization Proportional-integral-derivative controller Fuel cell Hydrogen aqua electrolyzer Frequency regulation



PSO Optimum Design-PID Controller for Frequency Management of Single Area Multi-Source Power Generating System

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Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 281)

Abstract

In this article, Particle Swarm Optimization (PSO) tuned Proportional-Integral-Derived (PID) controller is proposed for frequency management of a single area multisource power generation unit. The power system comprises of both renewable and non-renewable energy sources which includes thermal, solar and wind power generating units. In this work, Integral (I), Proportional -Integral (PI), and PID controllers are utilized as a subsidiary controller to regulate frequency deviation of the power system during unexpected load variation. The gain values of the controller are tuned by applying conventional (trial and error) scheme and PSO technique.

Conventional method tuned Controller tuned using conventional method shows that PID controller provides superior response over I and PI controller response.

Subsequently, PSO is implemented to tune PID controller gain values. To demonstrate the superiority of the PSO-PID controller, the output response is compared to the conventional tuned PID controller result. It is obvious from the comparison, the PSO-PID controller is provides fast settling time with minimal frequency overshoot and undershoot at various loading conditions.



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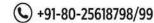
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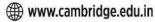
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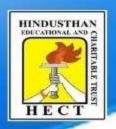
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For actively attending the webinar on the topic "Technology Based Teaching in Class Room"

Organized by IFERP on 10th September, 2020 from 5:00PM to 6:30PM for 1hour 30 Minutes.

Dr. Chellapilla Kameswara Rao

Professor Faculty of Mechanical Engineering Nalla Narasimha Reddy Engineering College India Dr. Vishal Datt. V. Kohir
Professor

Faculty of Mechanical Engineering KBN University, India



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conducted by Vidyavardhaka Electrical Research Group for
Excellence (VERGE), on 26th June 2020.

Inolly dr

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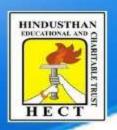
has actively participated in a webinar entitled

"Real-Time Energy Management in Smart Grid" on 26.06.2020.

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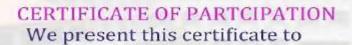
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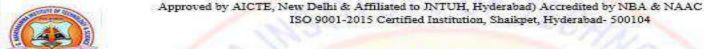
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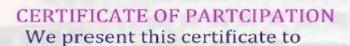
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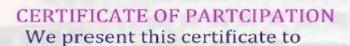
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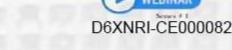
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27th July, 2020.

Organised by Sri Eshwar College of Engineering, Coimbatore.



உங்களால் முடியும் !





Dean - R & I

Principal





COIMBATORE | INDIA

OF PARTICIPATION

This is to certify that

K.Nirmala

Associate Professor / ECE of

Paavai Engineering College (Autonomous)

has attended Webinar on ENGINEERING OPTIMIZATION - METHODS AND APPLICATIONS on

27th July, 2020.

Organised by Sri Eshwar College of Engineering, Coimbatore.



உங்களால் முடியும்!





to knowly me

Dean - R & I

Directo





Certificate ID: QBSHFY-CE000095



CERTIFICATE OF PARTICIPATION

This is to certify that

K.Thendral

Professor of

Paavai engineering college

has attended Webinar on CAE for Product Design - An Insight on 3rd July, 2020.

Organised by Sri Eshwar College of Engineering, Coimbatore.

Director - IR





Certificate ID: QBSHFY-CE000095



CERTIFICATE OF PARTICIPATION

This is to certify that

D. Tharmi

Professor of

Paavai engineering college

has attended Webinar on CAE for Product Design - An Insight on 3rd July, 2020.

Organised by Sri Eshwar College of Engineering, Coimbatore.

Director - IR



VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU

Accerdited by NAAC with 'A' grade





This is to cerify that

Mr./Ms./Dr./Prof. G.Thirupathi
of Paavai Engineering College, Namakkal
has successfully participated in online webinar on
"Application of Mathematics in Electrical Engineering"
conducted by Vidyavardhaka Electrical Research Group for
Excellence (VERGE), on 26th June 2020.

Inolly In

DR. SHOBHA SHANKAR HOD DR. B SADASHIVE GOWDA
Principal



VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU

Accerdited by NAAC with 'A' grade





This is to cerify that

Mr./Ms./Dr./Prof. G.Dhanasekar
of Paavai Engineering College, Namakkal
has successfully participated in online webinar on
"Application of Mathematics in Electrical Engineering"
conducted by Vidyavardhaka Electrical Research Group for
Excellence (VERGE), on 26th June 2020.

Inolly In

DR. SHOBHA SHANKAR HOD DR. B SADASHIVE GOWDA Principal



VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU

Accerdited by NAAC with 'A' grade





This is to cerify that

Mr./Ms./Dr./Prof. S.R.Thiruvasagam
of Paavai Engineering College, Namakkal
has successfully participated in online webinar on
"Application of Mathematics in Electrical Engineering"
conducted by Vidyavardhaka Electrical Research Group for
Excellence (VERGE), on 26th June 2020.

Inolly In

DR. SHOBHA SHANKAR HOD DR. B SADASHIVE GOWDA
Principal



Certificate of Participation

This is to certify that

INDIAN SERVERS

K.R.Ganeshkumar

Participated in

Online Faculty Development Program on Cyber Security

This Program is organised by **Department of Computer Science and Engineering Of Swarnandhra College Of Engineering & Technology In Association With Indian Servers** during 15th & 16th May 2020.

Sai Satish

Mr.Sai Satish CEO,INDIAN SERVERS Dr.P.Srinivasulu

HOD CSE, SCET

Dr.S.Suresh Kumar

Principal , SCET

H-~ 18~

Dr.S.Ramesh Babu Secretary , SCET



Certificate of Participation

This is to certify that

T.P.Sharmila



Participated in

Online Faculty Development Program on Cyber Security

This Program is organised by **Department of Computer Science and Engineering Of Swarnandhra College Of Engineering & Technology In Association With Indian Servers** during 15th & 16th May 2020.

Sai Satish

Mr.Sai Satish CEO,INDIAN SERVERS Dr.P.Srinivasulu

HOD CSE, SCET

Dr.S.Suresh Kumar

Principal , SCET

Dr.S.Ramesh Babu

Secretary , SCET



Hindusthan Institute of Technology



(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NBA & NAAC with 'A' Grade & Certified with ISO 9001:2015, Coimbatore - 641 032

Department of

Electronics and Communication Engineering

Certificate of Participation

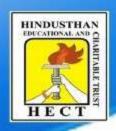
This is to certify that R.Bhuvaneshwari, Assistant Professor / ECE / Paavai Engineering College has participated in the Webinar on "EMERGING RESEARCH AREAS OF HETEROGENEOUS NETWORK IN WIRELESS COMMUNICATION", organized by the Department of Electronics and Communication Engineering, in Association with Institution's Innovation Council, Hindusthan Institute of Technology, Coimbatore on 21.05.2021.

Dr.S.Chinnapparaj

Co-ordinator

Dr.B.Paulchamy Convener

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Hindusthan Institute of Technology



(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NBA & NAAC with 'A' Grade & Certified with ISO 9001:2015, Coimbatore - 641 032

Department of

Electronics and Communication Engineering

Certificate of Participation

This is to certify that

U.A.Karthika, Assistant Professor / ECE / Paavai Engineering

College has participated in the Webinar on "EMERGING RESEARCH AREAS OF HETEROGENEOUS NETWORK IN WIRELESS COMMUNICATION", organized

by the Department of Electronics and Communication Engineering, in Association with Institution's Innovation Council, Hindusthan Institute of Technology, Coimbatore on 21.05.2021.

Dr.S.Chinnapparaj Co-ordinator

Dr.B.Paulchamy Convener

Made for free with Certify'em





Certificate ID: QBSHFY-CE000095



CERTIFICATE OF PARTICIPATION

This is to certify that

S.Jotheeshwaran

Professor of

Paavai engineering college

has attended Webinar on CAE for Product Design - An Insight on 3rd July, 2020.

Organised by Sri Eshwar College of Engineering, Coimbatore.

Director - IR



MAHENDRA ENGINEERING COLLEGE

NAAC Accredited With 'A' Grade & NBA Tier - 1(WA) UG: CSE, ECE, EEE Mahendhirapuri, Mallasamudram, Namakkal DT -637 503

DEPARTMENT OF INFORMATION TECHNOLOGY

in association with
ABE SEMICONDUCTOR DESIGNS

Chennai - 600 083



CERTIFICATE OF PARTCIPATION
We present this certificate to

L.Gururajan, A/P. Paavai Engineering College

has participated in the National Level Webinar on "Machine Learning with Covid'19"
Organized by Department of Information Technology, Mahendra Engineering College
(Autonomous), Namakkal association with ABE Semiconductor Designs, Chennai
on 09 May, 2020.

Mr.S.Ananth
AP/IT
Co-Ordinator

Prof. Dr. S RA-JU
HoD/IT
Convenor

Dr.A.ATHIF SHAH

Dr.R.V.MAHENDRAGOWDA

Managing Director, ABE SEMICONDUCTOR DESIGN Resource Person PRINCIPAL

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Certificate of Appreciation







SRI RANGANATHAR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chenna Athipalayam, Coimbatore - 641 110.

National Conference on Scientific Research and Integrated Emerging Technologies (NCSRIET-2020)



This is certify that DriMriMs.....

Paavai Engineering College, Namakkal has participated and presented

GREEN HOUSE HYDROPHONIC FARM

the Virtual National Conference on * Scientific Research and Integrated Emerging Technologies (NC SRIET-2020) * organised by Department of

Computer Science and Engineering of Sri Ranganathar Institute of Engineering and Technology on 24 & 25th June 2020.













WEBINAR ON

Funding Opportunities -Proposals and Research projects for faculty

18 - 20 June, 2020

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B VENKATESAN

of

Paavai Engineering College

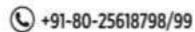
has participated in Three Day webinar on "Funding Opportunities - Proposals and Research projects for Faculty" held from 18 - 20 June 2020 at Cambridge Institute of Technology, Bengaluru, under the aegis of IIC and IQAC in association with NAFEMS.



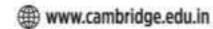
Dr. S. Shankar Convener Dr.Suneel Kumar N Kulkarni Prof & HoD-ME

Dr. Suresh L. Principal











Department of Electrical Sciences

A National Level Web Conference

ADVANCED ELECTRICAL COMPUTING & COMMUNICATION TECHNOLOGY (AECCT-2020)

Certificate of Participation

This is to certify that Dr/Mr/Ms		P. ANITHA
of	PAAVAI ENGINEEI	RING COLLEGE
titled_	MAKEOVER FEATURES BASE	has presented a paper
	WITH DEEP LEARNING IN ACTUAL P	ERIOD GUSHING ATMOSPHERES_in
the Na	tional Level web conference – A	dvanced Electrical Computing &
Comm	unication Technology (AECCT 20	020) organized by Department of
Flectri	ical Sciences on 05.06.2020 & 06	06 2020



Dr.S.MUTHU
PRINCIPAL





The Institution of Engineers (India) Madural Local Centre

K.L.N.College of Information Technology

Jointly organizes

One Day Virtual National Conference on

"Recent Trends in Engineering and Information Technology - RTEIT'20"

Certificate of Presentation

This is to Certify that Dr./Prof./Mr./Ms. N.HEMALATHA of PAAVAI ENGINEERING COLLEGE presented the paper entitled HEART DISEASE PREDICTION IN EFFICIENT WAY THROUGH MACHINE LEARNING METHOD in One Day Virtual National Conference on "Recent Trends in Engineering and Information Technology - RTEIT'20" jointly organized by The Institution of Engineers (India), Madural Local Centre & K.L.N.College of Information Technology on 1st June, 2020

Co-Convener Prof.M.Murugeswarf HOD / ECE Convener & Principal
Dr.M.Arunachalam
Principal,KLNCIT





CERTIFICATE Of Appreciation

This is to certify that

DR.R.ARAVIND

PAAVAI ENGINEERING COLLEGE AUTONOMOUS

has participated and presented a paper titled "COMPUTATIONAL STUDY ON FLOW THROUGH TRUNCATED CONICAL PLUG NOZZLE" in the International Virtual Conference "Recent Innovations in Science & Technology (RIST 2021)" conducted on 19th & 20th June 2021, organized by ERANAD Knowledge City Technical Campus, Malappuram, Kerala, India in association with ISET Research & HEXAIND Technologies and Services.

Prof. (Dr.) Vince Paul Principal, EKC TC



Prof. Athira B Kaimal
Co ordinator, HoD CSE, EKCTC

ICAMCCT_234: CONTROL OF SHOCK WAVE BOUNDARY LAYER INTERACTION USING BLEED SUCTION IN HYPERSONIC VEHICLE

Dr.R.Aravind, Aburva. A, Akalya. S, Vaishnavi. K

Paavai Engineering college, Namakkal.

Abstract - Develop a Numerical scheme to predict the location of subsonic separation bubble (SSB) formed due to the shock wave boundary layer interaction .To validate the Numerical scheme and grid by conducting validation studies to identify the location Subsonic separation bubble based on the Numerical analysis. To modify the inlet design to establish suction to control the Subsonic separation bubble using boundary layer bleeding. Compare the inlet performance of a inlet before and after the boundary layer bleeding.

ICAMCCT_235: STUDY OF WATER ABSORPTION AND THE OXIDATION BEHAVIOR OF JUTE FIBER REINFORCED COMPOSITES KiranReghunath, Senthil Saravanan M S*, J.B Sajin, Vidva. V

Department of Mechanical Engineering, Sree Buddha College of Engineering, Pattoor, Alappuzha, Kerala, India – 690529

Abstract - Water absorption of natural fiber plastic composites is a serious concern especially for their potential outdoor applications. In this paper, jute fiber reinforced with unsaturated polyester composites are subjected to water immersion tests in order to study the effects of water absorption in normal and salt water. Water absorption tests were conducted by immersing composite specimens into two different environmental conditions included normal water and sea water at room temperature for a period up to 48h. The water absorption of jute fiber reinforced unsaturated polyester composites at salt water follows the pseudo-Fickian behavior. The thermal stability of the prepared composites is evaluated by thermogravimetric analysis. It has been observed from the above tests, jute fiber composites show better hydrophobic nature and degradation at high temperatures were studied

Keywords: Jute fiber, Composites, TGA, pseudo-fickian

ICAMCCT_236: MODELLING AND FABRICATION OF AERIAL SURVEILLANCE AND MULTIPURPOSE GAS LEAKAGE DETECTION DRONE

K Gokulnath, Madhavan M, Narendhiran N, Vignesh C

Department of Aeronautical Engineering, Paavai Engineering College, Namakkal.

Abstract - An unmanned aerial vehicle is defined as an aircraft which has no human operator and it uses aerodynamic forces to ensure the vehicle is lifted and can fly autonomously or control by remotedly. It can be expanded or retrieved. The drones and possibilities of using its construction and important elements are propeller, engine, power distribution, flight control system, electronic control and communication system. It is related with roll, yaw, lift. In addition it is equipped with the different multigas leakage detecting sensor which is used to detect the leak gases like carbonmonoxide (CO), alcohol (OH), smoke and Liquefied petroleum gas (LPG) and also wifi transfer camera is fitted to locate the position of drone and its live stream. These output values are monitored through the android mobile phones and laptops.

Keywords: Drone, Aerial, survilleance, Gas-leakge-detection, sensor, unmaned aerial, vehicle, aurdinouno, leak rate quantification.

Sri Sivasubramaniya Nadar (SSN) College of Engineering



(An Autonomous Institution, Affiliated to Anna University, Chennai) RAJIV GANDHI SALAI (OMR), KALAVAKKAM, CHENNAI - 603 110

Department of Mechanical Engineering

Certificate of Participation

This is to certify that

Dr. R. Arravind/Professor and Head/Aero

of

Paavai Engineering College, Namakkal-637018

has participated in the National Workshop on "Recent Trends in Manufacturing Engineering" organized by the Department of Mechanical Engineering, SSN College of Engineering, Chennai on 29th December 2020.

Dr. D. Ananthapadmanaban Dr. K. Jayakumar Conveners

k. Dayac.

HoD / Mech

Dr. N. Nallusamy



ANNAI VAILANKANNI COLLEGE OF ENGINEERING

AVK Nagar, Pottalkulam, Kanyakumari District.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai, India.

Certificate of Presentation

This is to certify that Dr/Mr/Ms K. Goku	lnath	of
Paavai Engineering College, Namakkal		has presented a paper entitled
Experimental investigation of shock wave and bou	ndary layer interaction on the externa	l transonic flow over an airfoil
in the International Conference on Adva	ances in Materials, Computing	and Communication Technologies
'ICAMCCT 2021' organized by ANNA	I VAILANKANNI COLLEGE	OF ENGINEERING, Kanyakumari,
on 10 th April 2021.		
a X	ada -	
Convener	Vice Principal	Principal



SONA COLLEGE OF TECHNOLOGY

An Autonomous Institution | Approved by AICTE | ISO 9001 : 2015 Certified | NAAC Accredited - A Grade All Eligible Programmes NBA Accredited | Affiliated to Anna University, Chennai

Junction Main Road, Salem - 636 005. Tamil Nadu. India. Phone: +91 427 4099 999 | www.sonatech.ac.in



Certificate of Presentation

Awarded to
GOKULNATH K, Paavai Engineering College

for presenting a research paper titled

EXPERIMENTAL ANALYSIS OF ALTERNATE REFRIGERANT MIXTURES IN REFRIGERATION SYSTEM

at the International Virtual Conference on APPLIED SCIENCE, TECHNOLOGY MANAGEMENT AND LANGUAGE STUDIES [ASTMLS - 2020] on 11th & 12th December, 2020.

(Associate Sponsors)











g Smr Coordinator

Dr. D. Senthilkumar
Professor & Head / Mechanical, Dean - Students Affair
Sona College of Technology



Dr.S.Chandrasekar

Dean - Research and Development

Sona College of Technology



Dr. S.R.R. Senthilkumar Principal Sona College of Technology





Certificate of Participation

This certificate is awarded to Mr. Gokulnath K, Assistant Professor, Department of Aeronautical Engineering from

Paavai Engineering College, Namakkal-18, Tamilnadu., India.

in recognition of oral and technical presentation

titled Performance Estimation and Redesign of Horizontal Axis Wind Turbine (HAWT) Blade.

111

ICMMM 2021, 3rd INTERNATIONAL CONFERENCE ON MATERIALS, MANUFACTURING AND MODELLING

held in VIRTUAL MODE on 19th - 21st Mar 2021.

Dr. Anthony Xavior M Organizing Chair Da Kandana P

Dr. Vasudevan R
Dean - School of Mechanical Engineering

Certificate

International Conference on Chemical, Mechanical and Environmental Sciences

ICCMES 2021

25th & 26th, March 2021

This Certificate is presented to

P Karthikeyan

Department of Aeronautical Engineering, PAAVAI Engineering College, Namakkal

for the research paper titled "Three-dimensional computational analysis of transverse injection in a supersonic combustor" in the International Conference on Chemical, Mechanical and Environmental Sciences (ICCMES 2021) held at KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu, India.

Convenor

General Chair

Organized by

KPR Institute of Engineering and Technology

Learn Beyond (Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Publication Partner



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, https://nptel.ac.in/noc/

Roll No: NPTEL20GE03512230201

TO DR.D. BANUMATHY NO 3 I BLOCK POLICE QRS, DHARMANAGAR 5TH CROSS SALEM **TAMIL NADU - 636005** PH. NO:8903665525



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.



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(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

DR.D.BANUMATHY

for successfully completing the course

Effective Engineering Teaching in Practice

with a consolidated score of

Online Assignments 21.67/25 Proctored Exam 32.27/75

Devendra galihal

Total number of candidates certified in this course: 127

Prof. Devendra Jalihal Centre for Continuing Education, IITM

Jan-Feb 2020 (4 week course) Prof. Andrew Thangaraj **NPTEL Coordinator**

III Madras



Indian Institute of Technology Madras



Roll No: NPTEL20GE03S12230201

To validate and check scores: https://nptel.ac.in/noc

Roll No: NPTEL20GE03512230181

TO RENUKADEVI P 360, RAM NIVAS NARAYANAPILLAI ST SALEM **TAMIL NADU - 636007** PH. NO:9865154751



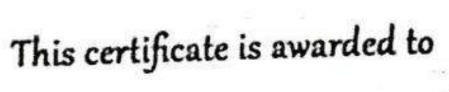
No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
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Duration of NPTEL course: 4 Weeks



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RENUKADEVI P

for successfully completing the course

Effective Engineering Teaching In Practice

with a consolidated score of 62 %

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras

(Jan-Feb 2020)

Prof. Dileep N. Malkhede Advisor-I (Research, Institute & Faculty Development) All India Council for Technical Education

To validate and check scores: http://nptel.ac.in/noc

Roll No: NPTEL20GE03S12230181

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.

This candidate has studied the above course through MOOCs notifications dated 24° July 2018, similar to other refresher / orientation course.

This cartificate is therefore acceptable for promotions under CAS as per AICTE / RIFD / FDP through MOOCs / 2017-18

F.No. AICTE / RIFD / FDP through MOOCs / 2017-18





OMPLETION

THIS IS TO CERTIFY THAT

BANUMATHY RAMESH

HAS SUCCESFULLY COMPLETED

PYTHON

)ATE: 31/03/2020

ERTIFICATE NUMBER: 138J3S74ND8056Z650

THIS CERTIFICATE IS AUTO GENERATED



S.P. BALAMURUGAN
CO-FOUNDER AND CEC





CERTIFICATE OF CO

THIS IS TO CERTIFY THAT

BANUMATHY RAMESH

HAS SUCCESFULLY COMPLETED

POWERBI

)ATE: 29/03/2020

CERTIFICATE NUMBER: 95581WX691U4V9T586

THIS CERTIFICATE IS AUTO GENERATED



S.P. BALAMURUGAN
CO-FOUNDER AND CEC





CERTIFICATE OF (

THIS IS TO CERTIFY THAT

BANUMATHY RAMESH

HAS SUCCESFULLY COMPLETED

GAME DEVELOPMENT USING PYGAME

)ATE: 30/03/2020

RTIFICATE NUMBER: C18F65351Z59U57B6D

THIS CERTIFICATE IS AUTO GENERATED



S.P. BALAMURUGAN
CO-FOUNDER AND CFC





CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

BANUMATHY RAMESH

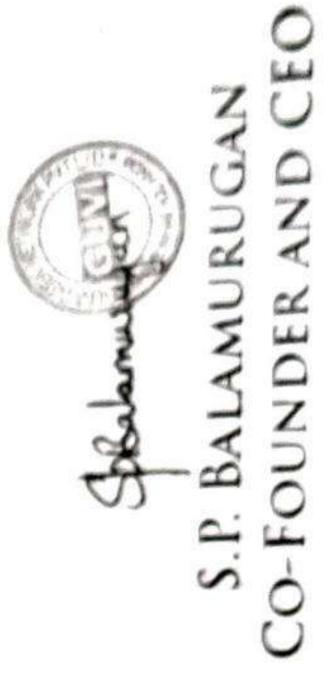
HAS SUCCESFULLY COMPLETED

ANGULAR

)ATE: 30/03/2020

ERTIFICATE NUMBER: 53P5361Y85MH0DKQI4

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- 637 503, Tamil Nadu UG - CSE, ECE, Accredited by NAAC 'A' grade & NBA Tier - 1 (WA) Mahendhirapuri, Mallasamudram, Namakkal Dt

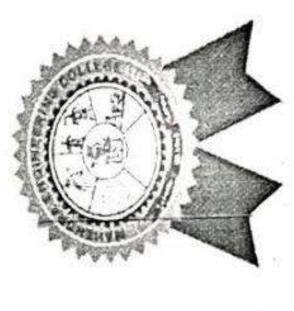


Department of

This is to certify that

Dr.D.Banumathy, Prof/CSE/Paavai Engineering College

IT Industry" Organized by Department of Information Technology Essential in Mahendra Engineering College (Autonomous) "Programming Participated in webinar on



ER. BAALAJI MANIVANNAN

SagasIT Analytics Pvt. Ltd.,

Bangalore.

DR. S. ANANTH

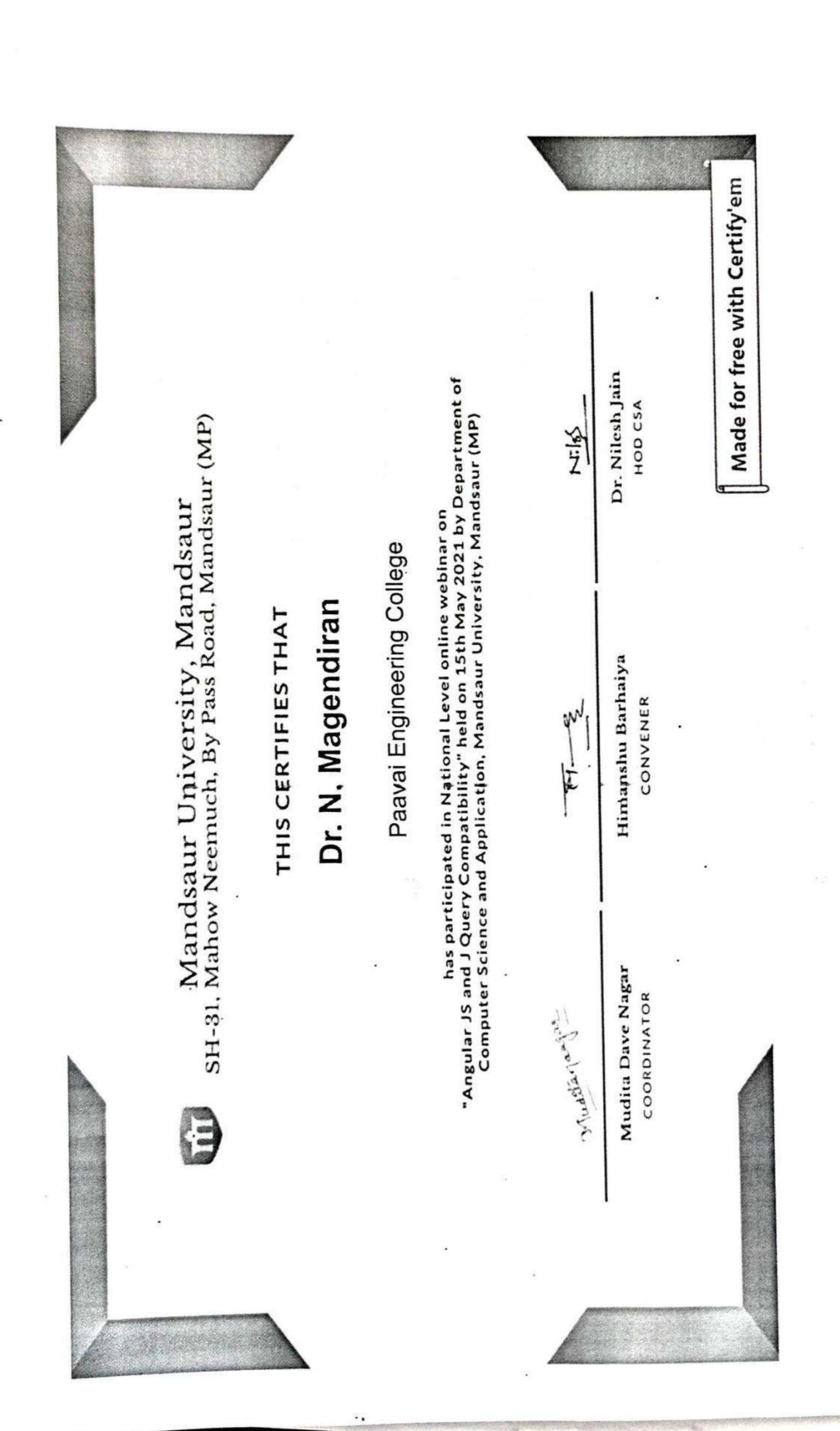
Co-Ordinator

DR. R. V. MAHENDRA GOWDA

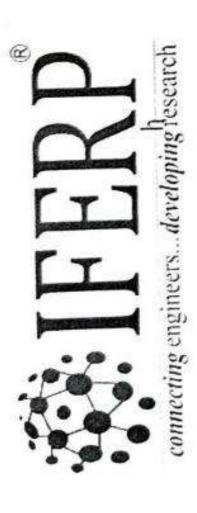
PROF. DR. S. RAJU

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CERTIFICA

This certificate is to Appreciate

MAGENDIRAN NATARAJAN

For actively attending the webinar on the topic

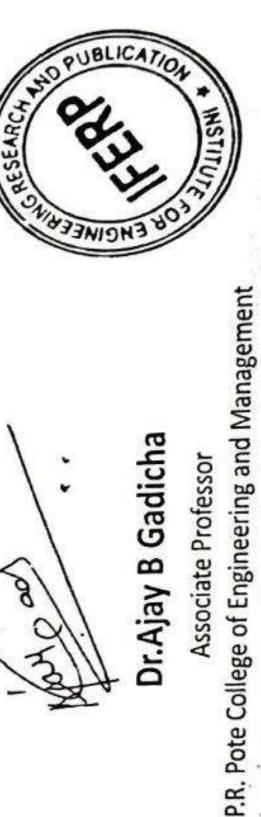
" Virtual Interactive Classroom For Teachers And The Challenging Technologies In

Post Covid - 19 Era" Organized by IFERP on 05th June, 2020



Dr.C.V.Gopinath

BITS, Visakhapatnam Principal



Dr. Ajay B Gadicha

Associate Professor

Amravati

Mr. Rudra Bhanu Satpathy Chief Executive Officer









MULLAUNTRAPARTION ATAINS TREET

r. D.BANUMATH

Paavai Engineering College

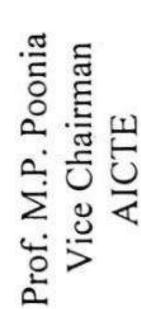
Successfully Completed Training on "Design thinking & Innovations" conducted as part of

IIC Innovation Ambassador Training Series

oimbatore, Tamil Nadu on 6-7 January 2020 Organized by Institution's Innovation Council of MHRD's Innovation Cell, AICTE held at Sri Krishna College of Engineering and Technology, C



Prof. Anil D. Sahasrabudhe Chairman



Ablay Fee

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



scan to verify

Date of issue: 15-02-2020

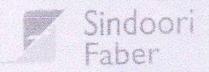
eCertificate No: 322











TO WHOMSOEVER IT MAY CONCERN

This is to certify that MR. MANIVANNAN P has undergone a practical training on Biomedical Engineering Concepts covering Operating Principles. Troubleshooting, Maintenance, Repairing and Application of Bio Medical equipments at various departments within the Hospital.

Hands on training on different category of equipments namely Critical. Semi Critical and Non-Critical equipments have been given to the student for duration of 45 DAYS.

We hereby certify that the student has successfully completed the training.

VENUE: 1, Apollo Hospitals - Main, Greams Road, Chentail

2. Apollo Hospitals - Teynampet, Chennai

PERIOD: (8.01.202) - 28.02.2021

For Faber Sindoori Management Services Pvt Ltd.

Authorised Signatory

Human Resources Department

TALLE AND





Webinars by Fluke Biomedical

S. Dhanalakshmi

Has attended the following webinar

Session 1 - Patient Monitor Testing: Overview and MEQA

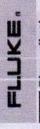
on

May 6, 2021



CERTIFICATE OF ATTENDANCE

This webinar is elligible for 1 CE credit from the ACI





R. Priyadharshini

Has attended the following webinar

Session 1 - Patient Monitor Testing: Overview and MEQA

0

May 6, 2021



CERTIFICATE OF ATTENDANCE

This webinar is elligible for 1 CE credit from the ACI

HINDUSTHAN COLLEGE OF ENGINEERING & TECHNOLOGY COIMBATORE

TIFICATE OF PARTICIPAT

This is to certify that

D.Murugesan, ASSISTANT PROFESSOR, EEE

Paavai Engineering College

has participated the webinar on "THERMOELECTRIC ENERGY CONVERSION SYSTEMS" presented by Dr. S. Manikandan, Research Assistant Professor, SRM Institute of Science and Technology, Chennai, on 23rd June 2020.

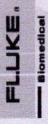
CONVENOR

Dr. N. P. Anantha Moorthy

CO-ORDINATOR

Mr. P. Radhakrishnan Assistant Professor **CO-ORDINATOR**

Dr. K. Mathan Associate Professor





Webinars by Fluke Biomedical

P. Ilayaraja

Has attended the following webinar

Session 1 - Patient Monitor Testing: Overview and MEQA

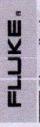
on

May 6, 2021



CERTIFICATE OF ATTENDANCE

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T. Saranya

Has attended the following webinar

Session 1 - Patient Monitor Testing: Overview and MEQA

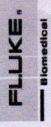
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May 6, 2021



CERTIFICATE OF ATTENDANCE

This webinar is elligible for 1 CE credit from the ACI





Webinars by Fluke Biomedical

P. Deepika

Has attended the following webinar

Session 1 - Patient Monitor Testing: Overview and MEQA

on

May 6, 2021



CERTIFICATE OF ATTENDANCE

This webinar is elligible for 1 CE credit from the ACI

----- Forwarded message ------

From: **Duolingo English Test <receipts+acct_**

15TGcGJUu4MsRlhR@stripe.com>

Date: Sat, 29 May 2021, 10:45

Subject: Your Duolingo English Test receipt [#1543-

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To: <ppcsabari@gmail.com>







Receipt from Duolingo English Test

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AMOUNT PAID ₹3,380.00 DATE PAID

PAYMENT METHOD

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SUMMARY

Payment to Duolingo English Test

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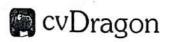
For attending the **PROFILE BUILDING WORKSHOP**. We appreciate your presence and wish you a successful future

2021-05-07

Date

Change Backhawal.

Cherag Bachhawat Founder/Director



OF PARTICIPATION

This certificate is proudly given to

M.VETRISELVAN

For attending the **PROFILE BUILDING WORKSHOP**. We appreciate your presence and wish you a successful future

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Date

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Cherag Bachhawat Founder/Director



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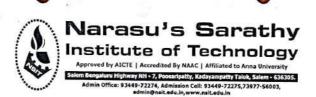
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2021-05-07

Date

Chinag Bachhawah

Cherag Bachhawat Founder/Director



— OF PARTICIPATION ———

THIS CERTIFICATE IS PRESENTED TO

from ______PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

has participated in a National Level Workshop titled, ______

"Smart Materials In Mechanical Design And Technology"

Organized by Department of Mechanical Engineering, on 27th March 2021 at Narasu's Sarathy
Institute of Technology, Salem.

Coordinator

Principal

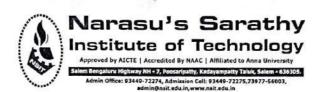
Chairman



OF PARTICIPATION THIS CERTIFICATE IS PRESENTED TO

C.VIBINSTALIN PAAVAI ENGINEERING COLLEGE (AUTONOMOUS) has participated in a National Level Workshop titled, -"Smart Materials In Mechanical Design And Technology" Organized by Department of Mechanical Engineering, on 27th March 2021 at Narasu's Sarathy Institute of Technology, Salem.

Coordinator



THIS CERTIFICATE IS PRESENTED TO

	C.SUMITHRA
from	PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
has partic	cipated in a National Level Workshop titled,
	"Smart Materials In Mechanical Design And Technology"
Organize	d by Department of Mechanical Engineering , on 27th March 2021 at Narasu's Sarathy
Institute	of Technology, Salem.

Coordinator

OL -1.

Principal

3

Chairman

RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE and Affiliated to Pondicherry University)
Kirumampakkam, Puducherry - 607403
(Accreditated with 'A' Grade by NAAC)



CERTIFICATE OF PARTICIPATION

in

AUTODESK® AutoCAD 2021 & Job – Business Opportunities for Engineering Graduates

This is to certify that Mr./Ms./Mrs./Dr C.SUMITHRA from PAAVAI ENGINEERING COLLEGE actively participated in the Two Days Online Training cum Workshop titled AUTODESK® AutoCAD 2021 & Job – Business Opportunities for Engineering Graduates organized by Institution's Innovation Council of Rajiv Gandhi College of Engineering and Technology in association with MSME Technology Centre, Puducherry on 18th and 19th June 2020.

IIC Ambassador Mr. Dinesh Babu R IC president (2019 - 20)
Dr. Juno Jasmine J

Dr. Vijayakrishna Rapaka E

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RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE and Affiliated to Pondicherry University)

Kirumampakkam, Puducherry - 607403

(Accreditated with 'A' Grade by NAAC)



CERTIFICATE OF PARTICIPATION

in

AUTODESK® AutoCAD 2021 & Job – Business Opportunities for Engineering Graduates

This is to certify that *Mr./Ms./Mrs./Dr* S.DHINAKAR from PAAVAI ENGINEERING COLLEGE actively participated in the Two Days Online Training cum Workshop titled AUTODESK® AutoCAD 2021 & Job – Business Opportunities for Engineering Graduates organized by Institution's Innovation Council of Rajiv Gandhi College of Engineering and Technology in association with MSME Technology Centre, Puducherry on 18th and 19th June 2020.

IIC Ambassadol Mr. Dinesh Babu R

C president (2019 – 20)

Dr. Vijayakrishna Rapaka E











DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr.R.ARUNBABU

Paavai Engineering College

has attended an THREE DAYS ONLINE WORKSHOP ON

"REAL TIME APPLICATIONS OF CAD/CAM & SYSTEMS ENGINEERING IN INDUSTRY"

held during 5th June to 7th June 2020.

Dr. G Robert Singh Associate Professor (Coordinator) A - fori rooms of Dr. A Gopichand Professor & HOD (Convener)

Dr. S Suresh Kumar Principal Dr. S Ramesh Babu Secretary & Correspondent



(Autonomous)

SEETHARAMPURAM, NARASAPUR, W.G.DISTRICT, ANDHRA PRADESH-534280

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr.R.T.AJAYKARTHIK

Paavai Engineering College

has attended an THREE DAYS ONLINE WORKSHOP ON

"REAL TIME APPLICATIONS OF CAD/CAM & SYSTEMS ENGINEERING IN INDUSTRY"

held during 5th June to 7th June 2020.

Dr. G Robert Singh

Associate Professor (Coordinator)

Dr. A Gopichand Professor & HOD (Convener)

Principal

Dr. S Ramesh Babu Secretary & Correspondent



NEHRU ARTS AND SCIENCE COLLEGE (An Autonomous Institution affiliated to Bharathiar University)

Department of Commerce

In Association with

COLLEGE OF BUSINESS & ECONOMICS, Bule Hora University, Ethiopia

Certificate of Participation This is to certify that

DR.S.SUMATHI

PAAVAI ENGINEERING COLLEGE

has participated in the International Virtual Conference on " DIGITAL MARKETING: TRENDS TO LOOK IN 2021" held on April 23, 2021.

Dr.M.Kanagarathinam Convenor

AP, Bule Hora University

Dr.B.Anirudhan



NEHRU ARTS AND SCIENCE COLLEGE

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Certificate of Participation
This is to certify that

G.AARTHANA

PAAVAI ENGINEERING COLLEGE

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Dr.M.Kanagarathinam Convenor

Dr.D.Barani Kumar AP. Bule Hora University

Dr.B.Anirudhan



NEHRU ARTS AND SCIENCE COLLEGE

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Dr.B.Anirudhan



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Dr.M.Kanagarathinam Convenor Dr.D.Barani Kumar AP. Bule Hora University

Dr.B.Anirudhan



PSG COLLEGE OF ARTS & SCIENCE

An Autonomous College, Affiliated to Bharathiar University
Accredited with 'A' Grade by NAAC (3rd cycle)
College with Potential for Excellence (Status Awarded by the UGC)
Star College Status Awarded by DBT-MST
An ISO 9001: 2015 Certified Institution



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Department of Economics

Participation Certificate
This is to certify that

DR.S.SUMATHI

Professor of MBA, Paavai Engineering College, Namakkal, Tamil Nadu

has participated in the Online Three Days National Level Workshop on "Research Methodology and Data Analysis for Social Sciences" held on 17, 18, & 19 June, 2020 through Google Meet platform organized by Department of Economics (Aided), PSG College of Arts and Science, Coimbatore.

Dr. R. RAVIKUMAR

Assistant Professor & Head (i/c)

Dr. D. BRINDHA



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Department of Economics

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Dr. R. RAVIKUMAR

Assistant Professor & Head (i/c)

Dr. D. BRINDHA



SRM TRP ENGINEERING COLLEGE

SRM Nagar,Irungalur-621 105, Mannachanallur Taluk, Tiruchirappalli District ,Tamilnadu



Virtual National Conference on Artificial Intelligence in Mechanical and Civil Engineering (NCAIMC-2020)

Certificate

This is to certify that the following paper has been presented in the "Virtual National Conference on Artificial Intelligence in Mechanical and Civil Engineering" (NCAIMC-2020) held on 4th July 2020.

Title of the paper:

SPLICE CONNECTION USING RAILWAY STEEL TRUSS

BRIDGES.

Author

Mrs. J. UMANAMBI , PROFESSOR

PAAVAI ENGINEERING COLLEGE

3 MILL

Mr.S. MANIMARAN Coordinators K. Duni

Mr. K. SURESHRAJA Convener ed th

Dr. B. GANESH BABU Principal



CONVENOR

T DHAANISH AHMED INSTITUTE OF TECHNOLOGY





CEO

An ISO 9001:2015 Certified Institution (Approved by AICTE, New Deihi & Affiliated to Anna University, Chennal) K. G Chavadi, Colmbatore-641105, India. E-mail: info@dhaanishcollege.in, website: www.dhaanish.com

International E-Conference on Recent Developments in Engineering & Technology

(ICRDET'21)

CERTIFICATE OF PARTICIPATION

TI-1-1-	to certify that Prof/Dr./	Mr /Mc /Mrs K SHARMIL	A DEVI	
inisis	to certify that Prof/Dr./	MIT./ MIS./ MITS	············	
f PAAVALEN	NGINEERING COLLEGE, NAM	AKKAL	has prese	nted a paper
n EXPERIME	ENTAL INVESTIGATION OF CO	ONCRETE BY PARTIAL REPL	ACEMENT OF CEMENT U	SING
n Internati	onal E-Conference on	Recent Development	ts in Engineering &	Technology
organized b	y Dhaanish Ahmed Inst	itute of Technology or	3rd April 2021.	
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PRINCIPAL



COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

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Department of Civil Engineering

Organize

NATIONAL WEB CONFERENCE

Certificate of Presentation

This is to certify that Dr./Mr./Ms. P.VIGNESH of Paavai Engineering college has Participated / Presented a paper entitled An Analysis of Formwork Failures and Effectiveness of Safety during National Web Conference on "Recent Innovations and Advancements in CivilEngineering (RIACE-2K20)" organized by Department of Civil Engineering, Kongunadu College of Engineering and Technology, Thottiam on 12/06/2020.

HoD/ Civil

Dean (R & D)



Dr.N.G.P. Institute of Technology

(Approved by AlCTE, New Delhi & Affiliated to Anna University, Chennai Recognized by UGC & Accredited by NAAC &NBA (BME, CSE, ECE, EEE & MECH)

Dr. N.G.P, Kalapatti Road, Coimbatore-641 048.

Department of Civil Engineering

Certificate of Presentation
This is to certify that

S.Gayathri

has presented the paper titled "Experimental Study on Behaviour of Cold Formed Steel Lipped Angle Columns" in the National Level Web Conference on Recent Innovations and Advancements in Engineering & Technology (RIAET 2020) held during June 5-6, 2020 organised by the Department of Civil Engineering, Dr.N.G.P IT, Coimbatore.

Link

Dr.P.MUTHUPRIYA
CONVENOR, HOD/ CIVIL

Dr.K.PORKUMARAN



DAIT DHAANISH AHMED INSTITUTE OF TECHNOLOGY





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International E-Conference on Recent Developments in Engineering & Technology

(ICRDET'21)

CERTIFICATE OF PARTICIPATION

This is to certify that Prof/Dr./Mr./Ms./Mrs. RAJESWARIS	••••••		
of PAAVAI ENGINEERING COLLEGE, NAMAKKAL has p	has presented a paper		
On . PERVIOUS CONCRETE	GGREGATE IN		
in International E-Conference on Recent Developments in Engineering	ng & Technology		
organized by Dhaanish Ahmed Institute of Technology on 3 rd April 2021.			
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CONVENOR

PRINCIPAL

CEO



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(Autonomous)

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Namakkal - Trichy Highways, Tholurpatti(PO), Thottiam (TK), Trichy (DT)

Department of Civil Engineering

Organize

NATIONAL WEB CONFERENCE

Certificate of Presentation

This is to certify that Dr./Mr./Ms. S.RAJESWARI of Paavai Engineering college has Participated / Presented a paper entitled Strength and durability study on GPC during National Web Conference on "Recent Innovations and Advancements in Civil Engineering (RIACE-2K20)" organized by Department of Civil Engineering, Kongunadu College of Engineering and Technology, Thottiam on 12/06/2020.

HoD/ Civil

Dean (R & D)





MUTH#AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi, Accredited by NAAC & Affiliated to Anna University)
Rasipuram - 637 408, Namakkal Dist., Tamil Nadu, India.

Department of Civil Engineering
organized
NATIONAL CONFERENCE ON INNOVATIONS IN CONSTRUCTION MATERIALS
(VIRTUAL)

Certificate of Participation

This is to a	ertify that 1	Mr. M. RAJKA	NNAN, AF	CIVIL	
n to the second	ed/Presented apaper en		OF RCC	BEAM WITH	1 GIEOGIRIT
	ference on Innovations		ials (Virtual) <i>or</i>	ganized by Departn	tent of Civil
Engineering, N	Muthayammal Engineerin	ig College , Rasipuram hel	don 15th April 20	021.	

Co-ordinator

R- YWY Organizing Secretary





International Virtual Conference (A) High-Performance Materials for Energy, Environment & Healthcare in the Digital Era



30th June & 1" July 2020

Organized by

Centre for Materials Technology, School of Advanced Sciences, VIT, Vellore - 632 014, India

CERTIFICATE

This is to certify that Dr./Mr./Ms. B. Karthiga of PAAVAI ENGINEERING COLLEGE has participated in International Virtual Conference on "High-Performance Materials for Energy. Environment & Healthcare in the Digital Era" organized by Centre for Materials Technology, School of Advanced Sciences, VIT. Vellore, India during 30th June & 1th July 2020.

KK Cle

Dr. K. K. Cheralathan (Organizing Secretary) huful

Dr. A. Mary Saral (Convener & Dean, SAS)

VIT University - A place to learn; A chance to grow



Adithya Institute of Technology

SLNo..AITCECON098

National Conference on

Structural. Architectural. Building and Automation in Sustainable Engineering-SABASE2020

3 & 4 June, 2020



This is to certify that

N.MOORTHY

Paavai Engineering College

has actively participated and presented a paper on

"Experimental Investigation on Flexural Strength Behaviour of

Reactive Powder Concrete".

Organized by Department of Civil Engineering

In Collaboration with



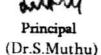


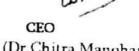


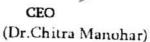




(Dr.P.Magudeaswaran)









Dr.N.G.P. Institute of Technology

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Recognized by UGC & Accredited by NAAC &NBA (BME, CSE, ECE, EEE & MECH)

Dr. N.G.P, Kalapatti Road, Coimbatore-641 048.

Department of Civil Engineering

Certificate of Presentation
This is to certify that

N. Moorthy

has presented the paper titled " New Technique

Construction Of Road Pavements in India For Permeable Pavements" in the National Level Web Conference on Recent Innovations and Advancements in Engineering & Technology (RIAET 2020) held during June 5-6, 2020 organised by the Department of Civil Engineering, Dr.N.G.P IT, Coimbatore.

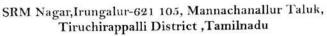
Lhul

Dr.P.MUTHUPRIYA
CONVENOR, HOD/ CIVIL

Dr.K.PORKUMARAN PRINCIPAL



SRM TRP ENGINEERING COLLEGE





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Title of the paper:

SPLICE CONNECTION USING RAILWAY STEEL TRUSS

BRIDGES.

Author

Ms. S.GAYATHRI , ASSISTANT PROFESSOR

PAAVAI ENGINEERING COLLEGE

S.M. F

Mr.S. MANIMARAN Coordinators K. Duni

Mr. K. SURESHRAJA Convener Note 11

Dr. B. GANESH BABU Principal



SRM TRP ENGINEERING COLLEGE

SRM Nagar,Irungalur-621 105, Mannachanallur Taluk, Tiruchirappalli District ,Tamilnadu



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BRIDGES.

Author

Mr. M.RAJKANNAN , ASSISTANT PROFESSOR

PAAVAI ENGINEERING COLLEGE

3 Mun F

Mr.S. MANIMARAN Coordinators K. Duni

Mr. K. SURESHRAJA Convener Hote K

Dr. B. GANESH BABU Principal