

#### SARANATHAN COLLEGE OF ENGINEERING

VENKATESWARA NAGAR, PANJAPPUR TIRUCHIRAPPALLI – 620012 (APPROVED BY AICTE, NEW DELHI) (AFFILIATED TO ANNA UNIVESITY, CHENNAI)

#### **CRITERION 5**

#### 5.3.3 - EVENTS IN WHICH STUDENTS OF THE INSTITUTION PARTICIPATED



#### SARANATHAN COLLEGE OF ENGINEERING

VENKATESWARA NAGAR, PANJAPPUR TIRUCHIRAPPALLI – 620012 (APPROVED BY AICTE, NEW DELHI) (AFFILIATED TO ANNA UNIVESITY, CHENNAI)

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#### CRITERION 5 - 5.3.3 – EVENTS IN WHICH STUDENTS OF THE INSTITUTION PARTICIPATED

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# ACADEMIC YEAR 2018 - 2019

# **CSE**



#### SALAJI RAMASUBRANDATA

recognition of his/her aptitude for innovations in an app for improved workplace collaboration and  $2^{\prime\prime\prime}$  and for having secured the  $2^{\prime\prime\prime}$ position 

Mani Vembu COO, Zoho

10/2

Date

Leadership Staff, Zoho Cliq

CICliq Doc



Approved by AKTE - New Delhi, Affiliated to Avina University - Chennal Accredited by RATIONAL ASSESSMENT AND ACCREDITATION COUNCIL "Velocomer Knowledge Part": Chennal - Kolkatta Highwey Ponnert - 601204

# DEELS CONEIS

"National Level Technical Event"

-TALENTED? THE THRONE IS WAITING FOR YOU

# Criticate of Merit

This is to certify that Mr/Ms <u>Immanuel Trwin</u> of <u>Saranathan Engineering College</u> has won <u>T</u> place in the Technical/<del>Non Technical</del> event <u>Technical Outs</u> conducted by the Department of Computer Science and Engineering held on 18th August 2018.



Mail

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COMPOSE

Inbox (2,787)

Starred

Important

Sent Mail

Drafts (99)
Categories

Social (76)

Ms.K.Mohanapr +

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

From: Kerala Startup Mission < sreekutty@startupmission.in>

Date: Tue, Aug 14, 2018, 3:18 PM Subject: IDEA FEST- 2018!!

To: Balaji <br/>
balaji030698@gmail.com>

Dear Applicant,

It is our pleasure to share you the results of our prestigious even

The Evaluation Details are as follows:

Project Name: "Smart Vaccine Reminder"

**Evaluation Results:** 

Your Idea is very interesting and since your main requireme request.

The entries were judged based on the technology used, social rel

No Hangouts contacts Find someone Thanks & Regards



Sreekutty OU

Project Assistant | Kerala Startup Mission

9/10/2018





#### CERTIFICATE OF AWARD

This is to certify that Mr./Ms. M.YEERAHARISH

of SARANATHAN COLLEGE OF ENGINEERING

has participated in the event INMOVATE CONTEST

and won THIRD. Prize in the One Day National Inter-College Fest SmartEra 2K18

(A Future Perspective) conducted by the Department of Computer Science & Engineering at K. RAMAKRISHNAN COLLEGE OF ENGINEERING, Tiruchirappalli on 23 August 2018.

LJ\_OU MFS.L.AMUDHA

Page 6 of 329

Mesi et sa Vini i

SALLUMOM
Dr.D. SRINIVASAN

#### CERTIFICATE OF AWARD

This is to certify that Mr./Ms. V. VARRHINI

of SARANATHAN COLLEGE OF ENGINEERING

has participated in the event PROFC

and won SECOND Prize in the One Day National Inter-College Fest SmartEra'2K18

(A Future Parapective) conducted by the Department of Computer Science & Engineering

at K. RAMAKRISHNAN COLLEGE OF ENGINEERING. Tiruchirappalli on 23 August 2018.

ME LANDONA COSTONNIS ALC 1. M. HITHYA HOU-CSE

X. D. SRINIVASAN



Adjacency by AICTE - New Delh, Affiliated to Airns University - Chennal Associated by HATTOHAL ASSESSMENT AND ACCREDITATION COUNCIL Milesterial Experience Pert\*, Charves - Kobatta Highway, Ponnert - 601204

# BETHRONE 18 National Lexical Exercises From the Company of the Co

-TALENTED? THE THRONE IS WAITING FOR YOU

# Centitute of Merit

This is to certify that Mr/Ms Kesava Prace of Carener has won to place in the Sarenethen Engineering contege has won to place in the Technical/Non-Technical event Technical Suit conducted by the Department of Computer Science and Engineering held on 189 August 2018.



Approved by ACTE - New Dein, Affiliated to Area University - Chennal Approving by MATIGNAL ASSESSMENT AND ACCREDITATION COUNCIL Telephone Country Park", Chennal - Kokatta Hipmey, Ponneri - 601204

# PARTITIES ONE 18 (National Level Technical Event")

-TALENTED? THE THRONE IS WAITING FOR YOU

# Cerifficate of Merit

This is to c	ertify that Mr/	Ms Tua	YALAN G.B		of
	N COLLEGE OF		has won	r place i	a the
	len Technical.		DESIGNING	conducte	d by
	the Departmen	it of Comp	uter Science	and Engine	ering
			held on	18th August	2018.







This is to certify that Mr/Ms. M. SATHISH KUMAR	
OT - SARANATHAN LOLLEGE DE ENGUNEERING has secured	^
place in the eventBRAIN_TRAIN	

# COMBLAZE-2K18

17th National Level Technical Symposium in association with the Computer Society of India Trichy Chapter held on 11th September 2018

HOD

**PRINCIPAL** 

Prof.U.S. Sarvadayaparan Dr.M.A. Mohamed N. za DIRECTOR

SECRETARY & CORRESPONTED

Page 10 of 329



## 🕆 M.A.M. College of Engineering

Trichy-Chennai Trunk Road, Siruganur, Trichy-621 105.

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#### CERTIFICATE OF ACHIEVEMENT

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This is	to certify that M	r/Ms. S. Ros	HAN KUMAR		
		•	ENGLINEERING	has secured.	T
	in the event	BRAIN			01

#### COMBLAZE-2K18

17th National Level Technical Symposium in association with the Computer Society of India Trichy Chapter held on 11th September 2018

HOD

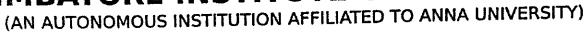
PRINCIPAL

DIRECTOR

Dr.S. Ravimaran Prof.U.S. Sarvadayaparan Dr.M.A. Mohamed Nizam SECRETARY & CORRESPONDENT



## COIMBATORE INSTITUTE OF TECHNOLOGY





# HASHTAG'18

# Certificate of Appreciation

This is to certify that Mr./Ms. R. ARINASH
of SARANATHAN COLLEGE OF ENGINEERING for securing 15th place in the
event Crack The held during Hashtag'18 at
Coimbatore Institute of Technology On September 20, 2018.

Dr.E.Arul Staff Advisor Dr.N.K.KarthiKeyan Head of the Department Dr.V.Selladurai Principal





#### CERTIFICATE OF AWARD

B. RAJARAM This is to certify that Mr./Ms. of SARANATHAN COLLEGE OF ENGINEERING 調明 神名にないない。 日本語(の) 公司 三字 祖 画 has participated in the event and won THIRD Prize in the One Day National Inter-College Fest SmartEne 2K16 (A Future Perspective) conducted by the Department of Computer Science & Engineering at K. RAMAKRISHNAN COLLEGE OF ENGINEERING. Tiruchirappall on 23 August 2018.

Dr. D. SRINIVASAN

ET CEAL





#### DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE



Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai (An ISO 9001-2008 Certified Institution)

Accredited with 'A' Grade by NAAC.

NATIONAL LEVEL TECHNICAL SYMPOSIUM - TRANSCEND 2K18
INTERFACE - ASSOCIATION OF CSE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### CERTIFICATE

This is to certify that Mr / Ms	BHAGYA LA	KSHMI.S Of
SAPANATHAN COLLEGE OF ENGINEERING	-TRICHY	_has participated in the
ADZAP -FIRST PRIXE	event in	TRANSCEND 2K18 at
Dhanalakshmi Srinivasan Engineerin 7 <sup>th</sup> September 2018.	ng College	, Perambalur held on



ORGANIZINA CHAIR

PRINCIPAL





#### DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE

bsi.

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai (An ISO 9001-2008 Certified Institution)

Accredited with 'A' Grade by NAAC.

NATIONAL LEVEL TECHNICAL SYMPOSIUM - TRANSCEND 2K18 INTERFACE - ASSOCIATION OF CSE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### CERTIFICATE

This is to certify that Mr / Ms_	BHAGYA LAKSHMI. S	of
SARANATHAN COLLEGE OF ENGINEER	имы -трисну has participat	ed in the
C- DEBUGGING, WAN FIRST PRIZE	event in TRANSCEND	2K18 at
Dhanalakshmi Srinivasan Enginee 7th September 2018.	ring College, Perambalur	held on



ORGANIZING CHAIR

PRINCIPAL



Enterpoles Differential and a second of the White



# BRASYUDDHA'19

Department of Information Technology

This is to certify that

GARANMHAN COLLEGE OF ENGINEERING

has won I prize in the Popen Procession of Prayuddia' 19- the Annual National Level Technical Symposium conducted by the Department of Information Technology, University College Of Engineering, BIT Campus, Trichy on 1st and 2nd March 2019

Mrs.S.Usha
Coordinator

کرسد اصلام Mr.D. Vonkatosan Mrs.C.Kanimozhi
Coordinator

Dr.T.Senthilkumar



FELLOWSHIP OF THE INFORMATION TECHNOLOGY, STUDENTS



University College of Engineering WiksevinU annow illaggsideuniff. WiksevinU annow



# PRAYUDDHA'19

**Department of Information Technology** 

This is to certify that RANTANI. K

SARANATHAN COLLEGE OF ENGINEERING

has won I prize in the FLONGO RITHM event of Prayuddha'19- the Annual National Level Technical Symposium conducted by the Department of Information Technology,

University College Of Engineering, BIT Campus, Trichy on 1st and 2nd March 2019

Mrs.S.Usha

Coordinator

Mr.D. Venkatesan

Mrs.C.Kanimozhi

Coordinator

Dr.T.Senthilkumar

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Dean



FELLOWSHIP OF NEORMATION TECHNOLOGY STUDENTS

POORVIKA

# Whiversity College of Engineering-Bill Campus Anna University, Thrushirages III



# PRANUDDHA'19

**Department of Information Technology** 

This is to certify that

SPRANATHAN COLLEGE OF ENGINEERING

has won I prize in the TECH CHARADE event of Prayuddha' 19- the Annual National Level Technical Symposium conducted by the Department of Information Technology,

University College Of Engineering, BIT Campus, Trichy

on 1st and 2nd March 2019

Mrs.S.Usha
Coordinator

Mr.D.Venkatesan HOD Mrs.C.Kanimozhi

C. Jamy

Coordinator

Dr.T.Senthilkumar

Dean

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#### moly cross college (Autonomous)

Affiliated to Bharathidasan University
Nationally Accredited (3<sup>rd</sup> Cycle) with 'A' Grade by NAAC
College with Potential for Excellence
Tiruchirappalli - 620 002, Tamil Nadu.

# CERTIFICATE

## Department of Computer Science

This is to C	ertify that Ms	NIVETH	A.S				
Iù-CSE,	Saranatha	n Colle	ge of Engin	eering , Tr	ichy V <del>olante</del>	ercol/Parties	
on the I	Prize in Inter-Collegiate C	Bug	ME	***************************************	in the 9		
	:2=2019	•	KVEGFE				

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Page 19 hP

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# PRAYUDDHA'19

## **Department of Information Technology**

This is to certify that

SPRANATHAN COLLEGE OF ENGINEERING.

has won I prize in the Tech CHARADE event of Prayuddha'19- the Annual National Level Technical Symposium conducted by the Department of Information Technology,

University College Of Engineering, BIT Campus, Trichy on 1st and 2nd March 2019

Mrs.S.Usha
Coordinator

Mr.D. Venkatesan

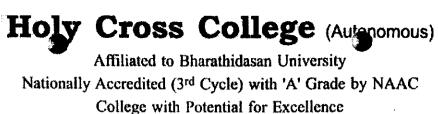
HOD

Mrs.C.Kanimozhi

Coordinator

Dr.T.Senthilkumar

Dean



## CERTIFICATE

Tiruchirappalli - 620 002, Tamil Nadu.

## **Department of Computer Science**

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of <u>in</u> – CSE , won the <u>I</u>		- ·	•		A SHARE THE PARTY OF THE PARTY
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<b>8</b> /					
	of the Department				



Nationally Accredited (3rd Cycle) with 'A' Grade by NAAC
College with Potential for Excellence
Tiruchirappalli - 620 002, Tamil Nadu.

## CERTIFICATE

## Department of Computer Science

f iii - CSE	Saranathan	College	of Engineering	, Trichy	Volunteered 19	D.,
on theI		STUMP	THE STARS	************	in the I <del>nter-O</del>	
	' Inter-Collegiate C	competition	WEBFEST	'19		
	6-02-2019	*	:			



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OF AFF







TATA COMMUNICATIONS

# CERTIFICATE

OF MERIT

This is	to cert	tify that <del>Mr</del> ./Ms.	VANSHINI. V		of
		COLLEGE		red <u> </u>	place in the
event_	IDEA	PRESENTATION	- GEFERAL	a	DAKSH'19,
			a <b>gement</b> test, S.	ASTRA Dee	med University
	din Le ini e	held from	February 22 to 2	24, 2019	

of semblantely

Arun Bhaarathi A (Student Co-ordinator)

Dr. Valdhyasubramanlam \$ Convenor



TVS Automobile Solutions Private Limited







# **ECE**



#### **Rathinam Technical Campus**

(Affiliated to Anna University and Approved by AICTE, New Delhi and Recognized by UGC under Section 2(f))
Rathinam Techzone, Pollachi main road, Eachanari, Coimbatore, Tamilnadu, India -641021

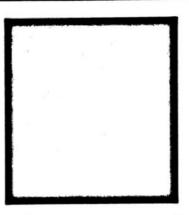






## **CERTIFICATE**

OF APPRECIATION



This Portificate is proudly presented to

**V.ABHIRAMI** 

Saranathan College of Engineering who has presented a paper titled Congestion Management by locating Series FACTS Devices in Deregulated power Systems in the IEEE sponsored 3<sup>rd</sup> International Conference on Engineering & Technology 2018 organized by the Department of CSE & IT, Rathinam Technical Campus, Coimbatore during 30<sup>th</sup> & 31<sup>st</sup>, August 2018.

Proj . s.syea snajanaan

ICETECH

Sastipuda

Dr. Madan A.Sendhil
Chief Patron
ICETECH'18



Organizer

# KonSunadu college of engineering & technology



Chairman

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

Accredited by NAAC with B++ Grade, Recognized by UGC with 2(f) & ISO 9001:2015 Certified Institution

Namakkal - Trichy Main Road, Tholurpatty - 621 215, Thottiam Taluk, Trichy.

#### NATIONAL LEVEL TECHNICAL SYMPOSIUM 2K'18

### Certificate

This is to certify that Mr./Mrs./Ms ABINAYA - L					
of SARANATHAN COLLEGE OF ENGINEERING, TRICHY:					
has wen the First / Second / Third place in the event / paper presented on					
INDUSTRIAL AUTOMATION					
one day National Level Technical Symposium - TEK CLUSTER'18 organized by the Department of					
ELECTRICAL AND ELECTRONICS FNGINE FRING on 18th August, 2018.					
ELECJ. KICHIHIX.DELECJ.KUV.C.SF.N.Gr.I.V.E.K.IJX.OJ on 18th August, 2018.					





#### K.RAMAKRISHNAN COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accredited with 'A' Grade by NAAC, An ISO 9001:2015 Certified Institution

Samayapuram, Tiruchirappalli - 621 112.

DEPARTMENT
OF
ELECTRICAL & ELECTRONICS ENGINEERING

KRYPTO-18



NATIONAL LEVEL TECHNICAL SYMPOSIUM

2<sup>nd</sup> AUGUST 2018

Certificate

of Participation

This is to certify that Mr/Ms. Ajith Anumugam A in EEE of Savanathan College of Engineering

has participated in the following events of KRYPTO -18.

An IEEE sponsored National Level Technical Symposium held on 2<sup>nd</sup> August, 2018.

✓ PAPER PRESENTATION

XI QUIZ

**☑** CONNECTION

**∠** PUBG

BREAK FOR BAIL

TREASURE HUNT

HOD/EEE Dr.K.Dhayalini of minil rase -

PRINCIPAL Dr.D.Srinivasan



# KonSunadu COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

Accredited by NAAC with B++ Grade, Recognized by UGC with 2(f) & ISO 9001:2015 Certified Institution Namakkal - Trichy Main Road, Tholurpatty - 621 215, Thottiam Taluk, Trichy.

#### NATIONAL LEVEL TECHNICAL SYMPOSIUM 2K'18

#### Certificate

This is to certify that Mn/Mrs./MsJ.S SURUTHI				
of SARANATHAN COLLEGE OF ENGINEERING TRICHY				
has wen the First / Second / Third place in the event / paper presented on				
HVDC AND FACTS IN POWER SYSTEM				
one day National Level Technical Symposium - TEK CLUSTER'18 organized by the Department of				
ELECTRICAL AND ELECTRONICS ENGINEERING on 18th August, 2018.				

R/Am\_ Organizer

Principal



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Prof.K.Ramadas

#### ALAGAPPA CHETTIAR GOVERNMENT COLLEGE OF ENGINEERING AND TECH

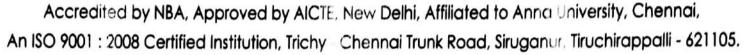
(A Government Autonomous Institution Affiliated to Anna University, Chennai) Karaikudi - 630 003

21st National Level Technical Symposium

# CERTIFICATE OF PARTICIPATION

This is to certify that Mr	Ms. NIRUBHAN JAL	1 . R·V	Evel Translation	
of <b>EFE</b>	Department from S			
ENHINEERING	has participated in t	he event PAPER PRESCA	ideal)	
in "ALCONESY 2K18"-	A National Level Technical	Symposium conducted by		
EEE Association on 12.09				
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FACULTY INCHARGE	PEE/HOD  Dr.K.Baskaran	PRINCIPAL Dr.A.Elango		

## M.A.M. COLLEGE OF ENGINEERING





#### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### ELENTRUS - 2K18

#### **CERTIFICATE**

	This is to certify that Mr./Ms. SHERRIN BANU. J	of				
	SARANATHAN COLLEGE OF ENGINEERING	has participated in the event				
of	PAPYRUS PRESENTA					
in "ELENTRUS - 2K18" - NATIONAL LEVEL TECHNICAL SYMPOSIUM conducted by						
M.A.M. College of Engineering on 31 <sup>st</sup> August 2018.						

C. Karthick HOD/EEE

Dr. S. Ravimaran
Principal

Prof. U.S. Sarvadayaparan Director HA Whoming

Dr. M.A. Mohamed Nizam Secretary & Correspondent



MATIDNAL SOLAR VEHICLE CHALLERGE

# Participation

This is to Cartify that Mr/Ma PRINCE THOMSON J

of loam \_ PHOENIX Representing SARANATHAN COLLEGE OF ENGINEERING

has Successfully Participated in Dynamic Round of NSVC 2018-19 Organised

by Dynamist Motorsports Put. Ltd. in Association with Ridwibs Motors and

Tachnologies Pot, Lid and Secured 5th position

We wish them to have a bright future ahead

Held on Date: - 20 Reb. - 4 Monda 2019

Venuer-Rever University, Prompt and









UNIVERSITY

Danamist Motorsports Pvt. Ltd

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#### INDIA INTERNATIONAL SCIENCE FESTIVAL

भारत अंतर्राष्ट्रीय विज्ञान महोत्सव 2018

5<sup>th</sup> - 8<sup>th</sup> OCTOBER 2018 Indira Gandhi Pratishthan

## Certificate of Award

This is to certify that	A	Pradeep
participated in has been awarded _	Student En	gineering Model Competition (IISF)
during 6-7 oct		at India International Science Festival 2018 held at Lucknow.

Dr. Renu Swarup Secretary, Department of Biotechnology, Gol

Rema Jump

Dr. Vijay Bhatkar President, Vijnana Bharati

Program Coordinator Department of Biotechnology











#### PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. PRASANTH P

from SARANATHAN COLLEGE OF ENGINEERING

has participated in

### SAUR URJA VEHICLE CHALLENGE (SUVC-2019)

Conducted by **RSTE SOCIETY**Held at
Hindusthan College of Engineering & Technology
Coimbatore, Tamil Nadu
27th Feb - 3rd Mar

S.U.V.C. - HEAD



Dydon

R.S.T.E. - PRESIDENT

www.suvcrste.com

contact@suvcrste.com





### K.RAMAKRISHNAN COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University. Chennai Accredited with A'Grade by NAAC, An ISO 9001: 2015 Certified Institution

Samayapuram, Tiruchirappalii - 621 112.

DEPARTMENT
OF
ELECTRICAL & ELECTRONICS ENGINEERING



IEEE Sponsored

KRYPII-18

NATIONAL LEVEL TECHNICAL SYMPOSIUM

2<sup>nd</sup> AUGUST 2018

Certificate
of Excellence

This is to certify that M/Ms A. Ajith Arumugam IV-EEE of Saranathan College of Engineering

has secured FIRST in the BREAK FOR BAIL event of KRYPTO-18.

An IEEE sponsored National Level Technical Symposium held on 2rd August, 2018.

HOD/EEE Dr.K.Dhayalini

PRINCIPAL Dr.D.Srinivasan

## **EEE**

CERTIFICATE ID : ISSUED ON: 1/19/2020 14:37:42





#### CERTIFICATE OF PARTICIPATION

PRESENTED TO

### Ajay.L

From SHARIK 3.0 , Saranathan college of engineering for participating in national level VIRTUAL ROUND of

#### **SAUR URJA VEHICLE CHALLENGE (SUVC-2020)**

organized by RSTE SOCIETY.







THIS IS AN E- GENERATED CERTIFICATE HENCE DOES NOT NEED ANY VERIFICATION



#### PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH

NEELAMBUR, COIMBATORE-641 062

### 202

### Certificate of Merit

This is to Certify that Mr/Ms	K. Deva Priya	184	of
Chranathan College	of Engineering	has secured	Third
place in the	Tech Wiz MMXX	Event	/ <del>Presentation</del> /
Workshop during the National Lev	vel Technical Symposium	YUKTA: 2020	on 5th and 6th
February at PSG Institute of Technology	ogy and Applied Research,	Coimbatore.	

Dr. B.Votrivolon

**Dr P Vetrivelan** Dean,Students Union Dr G Chandramohan Vice Principal

MANNE

Dr P V Mohanram Principal

PVKhans



### PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH

**NEELAMBUR, COIMBATORE-641 062** 

### Certificate of Merit

This is to Certify th	at Mr/Ms K. Deva Priya	of
Chranathan	College of Engineering	has secured Third
place in the	Tech Wiz MMXX	Event/ <del>Presentation</del> /
Workshop during the Nat	cional Level Technical Symposiu	m YUKTA: 2020 on 5th and 6th
February at PSG Institute of	Technology and Applied Research	i, Coimbatore.

**Dr P Vetrivelan** Dean,Students Union Dr G Chandramohan Vice Principal

LIMBETTA

Dr P V Mohanram Principal



## Certificate

This certificate is presented to K. Devapriya

3rd Year BE [EEE] Saranathan College of Engineering
on 15th Softember 2019 we the has even the First Price
in the 52rd Engineers Day Elocution Competition.

Dr. N. Kumaresan Chairman



Er. A. Anand Honorary Secretary



This is to certify that

#### Aravindh Vetri

representing

#### Saranathan College Of Engineering

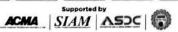
has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.

Balraj S.
Convener,
BAJA SAEINDIA 2020 - Pithampur

imer

Umesh Raghuvanshi
Jt. Convener,
BAJA SAEINDIA 2020 - Pithampur





www.bajasaBageo42Fofo329on DIF







This is to certify that

#### Chandra Mohan P

representing

#### Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.



Balraj S.
Convener,
BAJA SAEINDIA 2020 - Pithampur

ime

Umesh Raghuvanshi Jt. Convener, BAJA SAEINDIA 2020 - Pithampur





www.bajasaelindia.org | Pollow us on DES









This is to certify that

Jarin Kishore Ni

representing

Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.

Balraj S.
Convener,
BAJA SAEINDIA 2020 - Pithampur

imer

Umesh Raghuvanshi

Jt. Convener,

BAJA SAEINDIA 2020 - Pithampur





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## CERTIFICATE OF PARION

This is to certify that

#### Krishna Badrinath

representing

#### Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.

The state of the s

Balraj S. Convener.

BAJA SAEINDIA 2020 - Pithampur

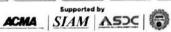
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Umesh Raghuvanshi

Jt. Convener,

BAJA SAEINDIA 2020 - Pithampur





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Manikandan D

representing

Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.

**Balraj S.** Convener,

BAJA SAEINDIA 2020 - Pithampur

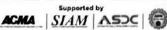
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BAJA SAEINDIA 2020 - Pithampur





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This is to certify that

Manish Ananda Eswaran

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Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRiP in Pithampur, Madhya Pradesh.

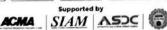
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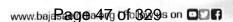
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BAJA SAEINDIA 2020 - Pithampur

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This is to certify that

#### **Mohamed Thoufiq**

representing

#### Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.



Balraj S. Convener, BAJA SAEINDIA 2020 - Pithampur

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has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.



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#### Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.



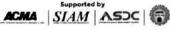
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This is to certify that

#### Rithish Balasubramanian

representing

#### Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.



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#### Santhosh Kanna

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#### Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.

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#### Shylesh Rama

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#### Saranathan College Of Engineering

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This is to certify that

#### **Subramanian Duraisamy**

representing

#### Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.

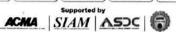


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This is to certify that

#### Sundar Mohandoss

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#### Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.



Balraj S.
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BAJA SAEINDIA 2020 - Pithampur

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Umesh Raghuvanshi
Jt. Convener,
BAJA SAEINDIA 2020 - Pithampur





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This is to certify that

#### Vasanthkumar Kasinathan

representing

#### Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.



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Convener,
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Umesh Raghuvanshi Jt. Convener, BAJA SAEINDIA 2020 - Pithampur





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#### Vijay Sai

representing

Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.

Balraj S. Convener.

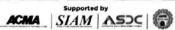
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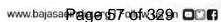
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Umesh Raghuvanshi

Jt. Convener, BAJA SAEINDIA 2020 - Pithampur













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Antony Rozario Gnanaraj Bennet Raj

representing

Saranathan College Of Engineering

has participated in BAJA SAEINDIA 2020, organized by SAEINDIA from 22nd to 26th January 2020 at NATRAX Facility of NATRIP in Pithampur, Madhya Pradesh.

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Balraj S.

Convener,

BAJA SAEINDIA 2020 - Pithampur

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#### Umesh Raghuvanshi

Jt. Convener,

BAJA SAEINDIA 2020 - Pithampur













### M.KUMARASAMY

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### CERTIFICATE OF MERIT

## THIS IS TO CERTIFY THAT

Mr/ <del>Ms</del>	HARISH.	<u>V of</u>
SARANATH	AN ENGINEE	RING COLLEGE
has won	prize in	QUIZ
Event in "YU	J <b>DDHAVAR</b>	NA-2K20", the Inter college
Technical me	et organized by	the Department of Computer
Science and E	engineering on	29 February 2020.

Prof. M. MURUGESAN Convenor





### M.KUMARASAMY COLLEGE OF ENGINEERING

**NAAC Accredited Autonomous Institution** 

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Thalavapalayam, Karur, Tamilnadu.





#### CERTIFICATE OF PARTICIPATION

This is to certify the	hat Mr/ <del>Ms</del>	HARISH	У	of
	SARANATHAN	ENGINEERING	COLLEGIE	
has participated in	Innvo Presen	ter, Web Co DBN	Aania,	Bug Monsters, Brain Rumble,
Quiz, Pap	er Presentation,	Google Hunting Eve	ents in "Yu	ddhavarna-2K20", the Inter College
Technical meet org	anized by the Depa	rtment of Computer	Science an	d Engineering on 29 Februray 2020.

Prof. M. MURUGESAN Convenor S.M



### SRI RAMAKRISHNA COLLEGE OF ENGINEERING

NH - 45, Sri Saradha Nagar, Perambalur - 621 113. | www.sriramakrishna.ac.in





ias presented a paper titled A home automati	g, Tricky.
*	on system
in the National Level Tech	nical Symposium TECHGYAN -



### SRI RAMAKRISHNA COLLEGE OF ENGINEERING

NH - 45, Sri Saradha Nagar, Perambalur - 621 113. | www.sriramakrishna.ac.in





	This is to certify that Selvan / Selvi & S. JSHWARYA (FFF)	
froi	" Saranathan college of Engineering	
has	secured T place in the event of Brain Rumble	
in t	he National Level Technical Symposium TECHGYAN - 2020 held at Sri Ramakrishna College Of Engineering,	
Per	ambalur on 18th February, 2020.	

HOD HOD

Convenion

Principal



### SRI RAMAKRISHNA COLLEGE OF ENGINEERING

NH - 45, Sri Saradha Nagar, Perambalur - 621 113. | www.sriramakrishna.ac.in





	This is to	certify that S	elvan / Selvi	. ISHW	IARIYA	(EEE)		
from	Sara	nathan	college	of E	nglineer	ing , Tyt	chy	
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in th	he National	Level Technic	al Symposium TECHG	YAN - 2020	held at Sri R	amakrishna Colle	ge Of Engineering	<b>b</b>
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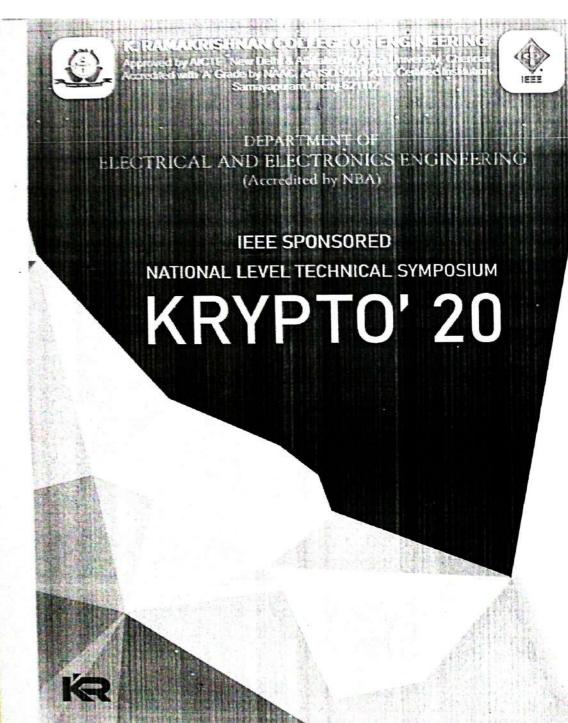
### CERTIFICATE OF APPRECIATION

		1 1113 13 11	o certify that
Mr. / Ms.	S. ISHI	WARYA	
of	EFE		_Department
rom SARA	NATHAN COLLE	GE OF	ENGINEERI
has particiţ	oated /secured _	FI	RST
in th	e eventTRE	ASURE	HUNT
	in IEEE spor	nsored Na	itional Level
Tech	nical Symposium	KRYPT	O'20 held at
K	.Ramakrishnan C	College of	Engineering
	01	n 24th Ja	nuary 2020.

DR.K.DHAYALINI CONVENER & HOD/EEE

Dr. D. Srinivasan Principal

This is to cortify that



### CERTIFICATE OF APPRECIATION

		This is to certify that
Мτ. /	/ Ms. <u>S· Tsнv</u>	JARYA
of	EFE	Department
from S	SARANATHAN COLL	EGF OF ENGINEER
has p	articipated / secured _	
	in the event PAPER	R PRESENTATION
	in IEEE spo	onsored National Level
	Technical Symposium	n KRYPTO'20 held at
	K.Ramakrishnan	College of Engineering
		on 24th January 2020.

DR.K.DHAYALINI
CONVENER & HOD/EEE

Dr. D. Srinivasan Principal



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# CERTIFICATE OF MERIT



Mr/Ms	JOHN_	BRITTO of
SARANA	THAN ENGI	INEERING COLLEGE
has won	prize in	QUIZ
Event in "Y	UDDHAVA	ARNA-2K20", the Inter college
Technical m	eet organized	d by the Department of Computer
Science and	Engineering	on 29 February 2020.

M. Hund

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Prof. M. MURUGESAN Convenor





### M.KUMARASAMY

**COLLEGE OF ENGINEERING** 

**NAAC Accredited Autonomous Institution** 

Approved by AICTE & Affiliated to Anna University ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.





#### CERTIFICATE OF PARTICIPATION

This is to certify that Mr/ <del>Ms</del>	JOHN	BRITTO .	Iof
SARANATHAN	ENGINEERING	COLLEGE	
has participated in Innvo Pres	senter, Web Co I	DBMania,	Bug Monsters, Rumble,
Quiz, Paper Presentation,			
Technical meet organized by the De	epartment of Compu	iter Science an	d Engineering on 29 Februray 2020.

Prof. M. MURUGESAN Convenor Dr. S. THILAGA



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Thalavapalayam, Karur, Tamilnadu.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF PARTICIPATION

This is	s to certify that Mr./ <del>Ms</del> .	JOHN BR	I . 077/	
of	SARANATHAN	ENGINEERING	COLLEGE	
has pa	rticipated in the State I	_evel Workshop titled_	BIG DATA	
on 28 I	February 2020.			

Prof. M. MURUGESAN Convenor



#### PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH

NEELAMBUR, COIMBATORE-641 062

### Certificate of Merit

This is to Certify that Mr/Ms	S. Jose Merril		of
Javanathan College of B	ngineering	has secured_	Third
place in the	Tech Wis MMXX	Event	/Presentation/
Werkshop during the National Level	Technical Symposium	YUKTA: 2020	on 5th and 6th
February at PSG Institute of Technology	and Applied Research,	Coimbatore.	

Dr P Vetrivelan Dean, Students Union Dr G Chandramohan Vice Principal

formation

Dr P V Mohanram Principal



#### PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH

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**Dr P Vetrivelan** Dean,Students Union Dr G Chandramohan Vice Principal

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Dr P V Mohanram Principal



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## Certificate of Merit

Dr P Vetrivelan Dean, Students Union Dr G Chandramohan Vice Principal



NEELAMBUR, COIMBATORE-641 062



## Certificate of Merit

This is to Certify that Mr/Ms KARUNAKARAN G of SARANATHAN COLLEGIE OF ENGINEERING has participated in AN IOT ENIGIMA Event/Workshop/Presentation during the National Level Technical Symposium YUKTA: 2020 on 5th and 6th February at PSG Institute of Technology and Applied Research, Coimbatore.

Dr P Vetrivelan Dean, Students Union Dr G Chandramohan Vice Principal

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Dr P V Mohanram

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NEELAMBUR, COIMBATORE-641 062

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## Certificate of Merit

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SARANATHAN	COLLEGE	OF	ENGINEERI	NA TRICH	/_has secured	and
place in the	UNTI	TLED	ing USS		Even	t/ <del>Presentation</del> /
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February at PSG In	stitute of Te	hnolog	y and Applie	d Research.	Coimbatore.	

Dr P Vetrivelan Dean,Students Union Dr G Chandramohan Vice Principal

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NEELAMBUR, COIMBATORE-641 062

# Certificate of Merit

This is t	o Certify tha	t Mr/Ms_ 67	Kawa	eavan		of
	Janaral	han College			has secured	Fifth
place in the			Tech h	Dig MMXX	Even	t/ <del>Presentatio</del> n/
Workshop during	g the Natio	onal Level	Technical	Symposium	YUKTA: 2020	on 5 <sup>th</sup> and 6 <sup>th</sup>
February at PSG	Institute of T	echnology a	nd Applie	d Research, C	coimbatore.	

**Dr P Vetrivelan** Dean,Students Union Dr G Chandramohan Vice Principal



NEELAMBUR, COIMBATORE-641 062

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Dr P Vetrivelan

Dean, Students Union

Dr G Chandramohan Vice Principal

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### **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr/Ms	KAUSHI	K S	of
SARANATHAN	ENGINEERING	COLLEGE	
has participated in Innvo Prese	enter, Web Co DBN	Mania, Bug Mons	ters, Brain Rumble,
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Technical meet organized by the Dep	partment of Computer	Science and Enginee	ring on 29 Februray 2020.

Prof. M. MURUGESAN Convenor 5.15

Dr. S. THILAGAMANI HOD - CSE



## M.KUMARASAMY

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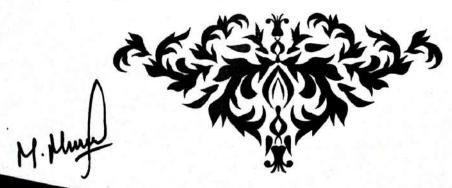
Thalavapalayam, Karur, Tamilnadu.



# CERTIFICATE OF MERIT

THIS IS TO CERTIFY THAT

Mr/ <del>Ms</del>	KAUSHIK	<u>. ς</u> of
SARAN	ATHAN ENGL	NEERING COLLEGE
has won	prize in	QUIZ
Event in "Y	U <b>DDHAVAR</b>	NA-2K20", the Inter college
Technical me	et organized by	y the Department of Computer
Science and I	Engineering on	29 February 2020.



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Prof. M. MURUGESAN Convenor Dr. S. THILAGAMANI HOD - CSE







SIEMENS Ingenuity for life WORKSHOP



AUTOMOBILE ENGINEERS ASSOCIATION DEPARTMENT OF AUTOMOBILE ENGINEERING MADRAS INSTITUTE OF TECHNOLOGY - ANNA UNIVERSITY CHENNAI - 600044

#### **CERTIFICATE OF PARTICIPATION**

SARANATHAN COLLEGE OF ENGINEERING

has participated in the ...T.E.CHNICAL

..... Event of AUTOMEET '20

held on January 24 & 25, 2020 at Madras Institute of Technology, Anna University, Chennai - 44.

Mr. R. ROSHAN

CHAIRMAN, AEA

Dr. K. ARUNACHALAM PRESIDENT, AEA Constitution of

Dr. M. SENTHIL KUMAR

HEAD

DEPARTMENT OF AUTOMOBILE ENGINEERING



#### ROTARY CLUB OF TIRUCHIRAPALLI ROCKCITY





Club No.22856



An Inter Collegiate Event

#### **Certificate of Merit**

This is to Certify that ... A.E.MANISH

Top Notcher'19 - An Inter Collegiate Competitive Event held on

18th August 2019 at St. Joseph's Institute of Management, Trichy

Rtn. Rajesh V

Rtn. S. Sathya Vishnu Karthick

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Ftn. D. Thilak Chander Secretary



#### ROTARY CLUB OF TIRUCHIRAPALLI ROCKCITY





C 16 No.22856



An inter Collegiate Event

## Certificate of Appreciation

This is	to Certify thatMA	115H.A.E	for	
eing adjudged as	WINNER	in the	wRITEr's Choice	event

Top Notcher'19 - An Inter Collegiate Competitive Event held on

18th August 2019 at St. Joseph's Institute of Management, Trichy

Rtn. Rajesh V President

Rtn. S. Sathya Vishnu Karthick Caelenan

Page 80 of 329

DC-

Rtn. D. Thilak Chander Secretary



#### ROTARY CLUB OF TIRUCHIRAPALLI ROCKCITY





Club No.22856



An Inter Collegiate Event

## **Certificate of Appreciation**

This is to Ce	ertify thatMANISH.	. <b>₹</b> .E	for
being adjudged as	VINNER in	the InQUIZitive	event

Top Notcher'19 - An Inter Collegiate Competitive Event held on

18th August 2019 at St. Joseph's Institute of Management, Trichy

Rtn. Rajesh V

Rtn. S. Sathya Vishnu Karthick Chairman Rtn. D. Thilak Chander Secretary

Page 81 of 329



NEELAMBUR, COIMBATORE-641 062

# Certificate of Merit

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SARANATHAN	COLLEGE OF	EMINER	NA, TRICHY	has secure	ed 21	<u>d</u>
	UNTITLED.		M 4 . man 2	- 4%	ent/ <del>Prese</del>	
Workshop during th			202 (15)	767	0 on 5 <sup>th</sup>	and 6th
February at PSG Insti	tute of Technology	and Applied	Research, C	oimbatore.		

Dr P Vetrivelan Dean, Students Union Dr G Chandramohan Vice Principal



NEELAMBUR, COIMBATORE-641 062

## Certificate of Merit

This is to	Certify that $Mr/Ms 2$ .	Mohammed	Rifat			_of
	Saranathan College	1 1	1	has secured_	Fifth	
place in the	•	Tech Wiz	MMXX	Event	:/ <del>Presenta</del>	ien/
Werkshop during	the National Level T	echnical Syr	nposium	YUKTA: 2020	on 5 <sup>th</sup> and	d 6 <sup>th</sup>
February at PSG II	stitute of Technology a	nd Applied Re	esearch, C	oimbatore.		

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**Dr P Vetrivelan** Dean, Students Union Dr G Chandramohan Vice Principal Dr P V Mohanram Principal

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NEELAMBUR, COIMBATORE-641 062

## Certificate of Merit

This is	to Certify that Mr/Ms_	Z. Mohammed Rifat		of
	Javanathan Col	lege of Engineering	has secured_	Fifth
place in the		Tech Wiz MMXX	Event	/ <del>Presentation</del> /
Werkshop durin	g the National Leve	l Technical Symposium	YUKTA: 2020	on 5 <sup>th</sup> and 6 <sup>th</sup>
February at PSG	Institute of Technolog	v and Applied Research.	Coimbatore.	

Kontola

Dr P Vetrivelan Dean, Students Union Dr G Chandramohan Vice Principal



NEELAMBUR, COIMBATORE-641 062

# Certificate of Merit

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SARANATHAN COLLEGE OF EMINIERINA, TRICHY has secured 2 nd

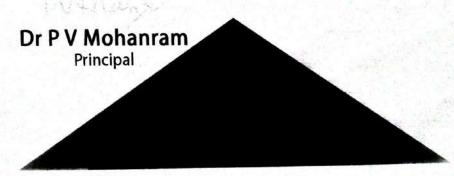
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Workshop during the National Level Technical Symposium YUKTA: 2020 on 5th and 6th

February at PSG Institute of Technology and Applied Research, Coimbatore.

Dr P Vetrivelan Dean, Students Union Dr G Chandramohan Vice Principal

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Ingenuity for life
WORKSHOP



AUTOMOBILE ENGINEERS ASSOCIATION DEPARTMENT OF AUTOMOBILE ENGINEERING MADRAS INSTITUTE OF TECHNOLOGY - ANNA UNIVERSITY CHENNAI - 600044

#### **CERTIFICATE OF PARTICIPATION**

**Event of AUTOMEET '20** 

held on January 24 & 25, 2020 at Madras Institute of Technology, Anna University, Chennai - 44.

Mr. R. ROSHAN CHAIRMAN, AEA

Dr. K. ARUNACHALAM PRESIDENT, AEA Complete Com

Dr. M. SENTHIL KUMAR
HEAD
DEPARTMENT OF AUTOMOBILE ENGINEERING







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AUTOMOBILE ENGINEERS ASSOCIATION DEPARTMENT OF AUTOMOBILE ENGINEERING MADRAS INSTITUTE OF TECHNOLOGY - ANNA UNIVERSITY CHENNAI - 600044

#### CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./Ms. PREETHIKAA KA

SARANATHAN COLLEGE OF ENGINEERING

has participated in the TECHNICAL

Event of AUTOMEET '20

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Technology, Anna University, Chennai - 44.

Mr. R. ROSHAN CHAIRMAN, AEA

Dr. K. ARUNACHALAM PRESIDENT, AEA

Dr. M. SENTHIL KUMAR HEAD DEPARTMENT OF AUTOMOBILE ENGINEERING

Page 87 of 329







SIEMENS Ingenuity for life WORKSHOP



AUTOMOBILE ENGINEERS ASSOCIATION DEPARTMENT OF AUTOMOBILE ENGINEERING MADRAS INSTITUTE OF TECHNOLOGY - ANNA UNIVERSITY CHENNAI - 600044

#### **CERTIFICATE OF PARTICIPATION**

This is to certify that

Mr./Ms. RAGHAVENDRAN: S. of

SARAMATHAN COLLEGE OF ENGINEERING.

has participated in the TECHNICAL.

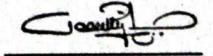
Event of AUTOMEET '20

held on January 24 & 25, 2020 at Madras Institute of

Technology, Anna University, Chennai - 44.

Mr. R. ROSHAN CHAIRMAN, AEA

Dr. K. ARUNACHALAM PRESIDENT, AEA Page 88 of 329



Dr. M. SENTHIL KUMAR
HEAD
DEPARTMENT OF AUTOMOBILE ENGINEERING



College of Engineering and Technology

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai, Accredited by NBA, Accredited by NAAC with B++ Grade Recognized by UGC with 2(f) & 12(b), An ISO 9001:2015 Certified Institutions)

Namakkal - Trichy Main Road, Tholurpatti (P.O.), Thottiyam (TK), Trichy (Dt.) - 621 215.

# National Level Technical Symposium 2K'19



This is to certify that Mr./Mrs./Ms. Y. SAKTHI RAJA
of SARANATHAN COLLEGE OF ENGINEERING
has won the First / Second / Third place in the event / paper presented on
TRENDS IN RENEWABLE ENERGY RESOURCES
in one day National Level Technical Symposium - TEK CLUSTER'19 organized by the Department of
MECHANICAL ENGLINEERING on 09th August, 2019.



Dean (R&D)



Chairman







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AUTOMOBILE ENGINEERS ASSOCIATION
DEPARTMENT OF AUTOMOBILE ENGINEERING
MADRAS INSTITUTE OF TECHNOLOGY - ANNA UNIVERSITY
CHENNAI - 600044



Mr. R. ROSHAN CHAIRMAN, AEA Dr. K. ARUNACHALAM PRESIDENT, AEA

Dr. M. SENTHIL KUMAR
HEAD
DEPARTMENT OF AUTOMOBILE ENGINEERING

Page 90 of 329









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AUTOMOBILE ENGINEERS ASSOCIATION
DEPARTMENT OF AUTOMOBILE ENGINEERING
MADRAS INSTITUTE OF TECHNOLOGY - ANNA UNIVERSITY
CHENNAI - 600044

#### **CERTIFICATE OF PARTICIPATION**

This is to certify that

..... Event of AUTOMEET '20

held on January 24 & 25, 2020 at Madras Institute of Technology, Anna University, Chennai - 44.

L. adam

Mr. R. ROSHAN CHAIRMAN, AEA KAmm

Dr. K. ARUNACHALAM PRESIDENT, AEA



Dr. M. SENTHIL KUMAR HEAD

DEPARTMENT OF AUTOMOBILE ENGINEERING

Page 91 of 329



K. RAMAKRISHNAN COLLEGE OF ENGINEERING

Approved by AIC II. New Deith & Affiliated by Anna Linversity Cherina Accredited with A' Grade by NAAC. An ISO 9001 2015 Certified lightings



DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING
(Accredited by NBA)

IEEE SPONSORED

NATIONAL LEVEL TECHNICAL SYMPOSIUM

KRYPTO' 20

# CERTIFICATE OF APPRECIATION

× 140		This is to certify that
Mr. / Ms	M. SUDH	ILAYA
of	EFF	Department
from SAR	ANATHAN COL	LEGE OF ENGINEERING
has partic	ipated / secured	
in t	the event PAPE	R PRESENTATION
	in IEEE s	sponsored National Level
Te	chnical Symposi	um KRYPTO'20 held at
	K.Ramakrishna	an College of Engineering
		on 24th January 2020.

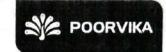
Dr.K.Dhayalini Convener & HOD/EEE Dr. D. Srinivasan Principal







SIEMENS
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WORKSHOP



AUTOMOBILE ENGINEERS ASSOCIATION
DEPARTMENT OF AUTOMOBILE ENGINEERING
MADRAS INSTITUTE OF TECHNOLOGY - ANNA UNIVERSITY
CHENNAI - 600044

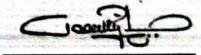
#### **CERTIFICATE OF PARTICIPATION**

	inis	is to certify	tnat	Distriction of the September 1988 and
Mr./₩s.	SYED ZAME	ERBASHA : S		of
SARANA	THAN COLLEGE.	DFENGL	NEERING	
has parti	cipated in the	TECHN	LICAL	9.01
		Eve	ent of AUT	OMEET '20
held on	January 24 &	25, 2020	at Madra	s Institute o
Te	chnology. Ann	a Universi	ty Chenna	ai - 44

L. Moston

Mr. R. ROSHAN CHAIRMAN, AEA KAmm

Dr. K. ARUNACHALAM PRESIDENT, AEA



Dr. M. SENTHIL KUMAR
HEAD
PARTMENT OF AUTOMOBILE ENGINEERING

Control of the Contro

Page 93 of 329



### **Rathinam Technical Campus**

(Affiliated to Anna University and Approved by AICTE, New Delhi and Recognized by UGC under Section 2(1))
Rathinam Techzone, Pollachi main road, Eachanari, Coimbatore, Tamilnadu, India -641021

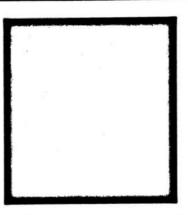






## **CERTIFICATE**

OF APPRECIATION



This Portificate is proudly presented to

**V.ABHIRAMI** 

Saranathan College of Engineering who has presented a paper titled Congestion Management by locating Series FACTS Devices in Deregulated power Systems in the IEEE sponsored 3<sup>rd</sup> International Conference on Engineering & Technology 2018 organized by the Department of CSE & IT, Rathinam Technical Campus, Coimbatore during 30<sup>th</sup> & 31<sup>st</sup>, August 2018.

Proj . s.syea snajanaan

ICETECH

Lastepunda

Dr. Madan A.Sendhil
Chief Patron
ICETECH'18

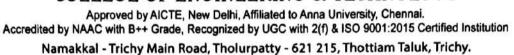


Organizer

# KonSunadu college of engineering & technology



Chairman



#### NATIONAL LEVEL TECHNICAL SYMPOSIUM 2K'18

## Certificate

This is to certify that Mr./Mrs./MsABINAYA - L	
of SARANATHAN COLLEGE OF ENGINEERING , TRICHY.	
has won the First / Second / Third place in the event / paper presented on	
INDUSTRIAL AUTOMATION	
one day National Level Technical Symposium - TEK CLUSTER'18 organized by the Department	it of
ELECTRICAL AND ELECTRONICS FNGINEERING on 18th August, 2018.	(
	, •





#### K.RAMAKRISHNAN COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Accredited with 'A' Grade by NAAC, An ISO 9001:2015 Certified institution

Samayapuram, Tiruchirappalli - 621 112.

DEPARTMENT
OF
ELECTRICAL & ELECTRONICS ENGINEERING

KRYPTO-18



IEEE Sponsored

NATIONAL LEVEL TECHNICAL SYMPOSIUM

2<sup>nd</sup> AUGUST 2018

Certificate

of Participation

This is to certify that Mr/Ms. Ajith Anunugam A in EEE of Savanathan College of Engineering

has participated in the following events of KRYPTO -18.

An IEEE sponsored National Level Technical Symposium held on 2<sup>nd</sup> August, 2018.

✓ PAPER PRESENTATION

XI QUIZ

**☑** CONNECTION

**∠** PUBG

TREASURE HUNT

HOD/EEE Dr.K.Dhayalini of committees -

PRINCIPAL Dr.D.Srinivasan



# KonSunadu COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

Accredited by NAAC with B++ Grade, Recognized by UGC with 2(f) & ISO 9001:2015 Certified Institution Namakkal - Trichy Main Road, Tholurpatty - 621 215, Thottiam Taluk, Trichy.

#### NATIONAL LEVEL TECHNICAL SYMPOSIUM 2K'18

## Certificate

This is to certify that Mn/Mrs./MsJ.SSURUTHI
of SARANATHAN COLLEGE OF ENGINEERING TRICHY
has wen the First / Second / Third place in the event / paper presented on
HVDC AND FACTS IN POWER SYSTEM
one day National Level Technical Symposium - TEK CLUSTER'18 organized by the Department of
ELECTRICAL AND ELECTRONICS ENGINEERING on 18th August, 2018.
ر با

R/An\_ Organizer

Principal

Chairman

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Prof.K.Ramadas

### ALAGAPPA CHETTIAR GOVERNMENT COLLEGE OF ENGINEERING AND TECH

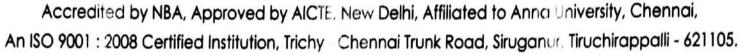
(A Government Autonomous Institution Affiliated to Anna University, Chennai) Karaikudi - 630 003

21st National Level Technical Symposium

## CERTIFICATE OF PARTICIPATION

This is to certify that M	Ir/Ms. NIRUBHAN JAL	I. R·V	Section 12
of <b>EEE</b>	Department from S	CARAMATHAN COLLEGIE	
ENGINEERING	has participated in t	he event PAPER PRESENTATION	
in "ALCONESY 2K18"	'-A National Level Technical	Symposium conducted by	
EEE Association on 12.0	09.2018.		1000
	ь		
ACULTY INCHARGE	PEE/HOD  Dr.K.Baskaran	PRINCIPAL Dr.A.Elango	

## M.A.M. COLLEGE OF ENGINEERING





#### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

## ELENTRUS - 2K18

#### **CERTIFICATE**

	This is to certify that Mr./Ms. SHERRIN BANU. J	of
	SARANATHAN COLLEGE OF ENGINEERING	has participated in the event
of	PAPYRUS PRESENTA	
	in "ELENTRUS - 2K18" - NATIONAL LEVEL TECHN	IICAL SYMPOSIUM conducted by
M.A.M. Co	ollege of Engineering on 31st August 2018.	

C. Karthick HOD/EEE

Dr. S. Ravimaran
Principal

Prof. U.S. Sarvadayaparan Director

Dr. M.A. Mohamed Nizam Secretary & Correspondent



# Certificate Participation

This is to Certify that Mr./ 14. PRINCE THOMSON . J

of loam PHOENIX Representing SARANATHAN COLLEGE OF ENGINEERING

has Successfully Participated in Dynamic Round of NSVC 2018-19 Organised

by Dynamist Motorsports Put. Ltd. in Association with Ridwibs Motors and

Jacknologies Pet. Ltd. and Secured 5th position

We wish them to have a bright future ahead

Held on Date: 20 Feb. 4 Manda 2019

Venuer Rever University, Front State.











D-namist Motorsports Pvt.



#### INDIA INTERNATIONAL SCIENCE FESTIVAL

भारत अंतर्राष्ट्रीय विज्ञान महोत्सव 2018

5<sup>th</sup> - 8<sup>th</sup> OCTOBER 2018 Indira Gandhi Pratishthan

## Certificate of Award

This is to certify that		Pradeep			
participated in has been awarded _	Student En	aineering.	Model Co	mbetition	(TTSF)
950 TW		0			
during 6-7 oct	, 2018	at India Interna	ational Scienc	e Festival 2018	held at Lucknow.

Dr. Renu Swarup Secretary, Department of Biotechnology, Gol Dr. Vijay Bhatkar President, Vijnana Bharati

Program Coordinator
Department of Biotechnology











### PARTICIPATION CERTIFICATE

This is to certify that Mr./Ms. PRASANTH P

from SARANATHAN COLLEGE OF ENGINEERING

has participated in

## SAUR URJA VEHICLE CHALLENGE (SUVC-2019)

Conducted by **RSTE SOCIETY**Held at
nan College of Engineering & Technol

Hindusthan College of Engineering & Technology Coimbatore, Tamil Nadu 27th Feb - 3rd Mar

S.U.V.C. - HEAD



Dydon

R.S.T.E. - PRESIDENT

www.suvcrste.com

contact@suvcrste.com





# K.RAMAKRISHNAN COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accredited with A'Grade by NAAC, An ISO 9001: 2015 Certified Institution

Samayapuram, Tiruchirappali - 621 112.

DEPARTMENT
OF
ELECTRICAL & ELECTRONICS ENGINEERING



IEEE Sponsored

KRYPII-18

NATIONAL LEVEL TECHNICAL SYMPOSIUM

2<sup>nd</sup> AUGUST 2018

Certificate
of Excellence

This to certify that M/Ms A. Ajith Arumugam IV-EEE of Saranathan College of Congineering

has secured FIRST in the BREAK FOR BAIL event of KRYPTO-18.

An IEEE sponsored National Level Technical Symposium held on 2rd August, 2018.

HOD/EEE Dr.K.Dhayalini 1) (marian

PRINCIPAL Dr.D.Srinivasan







# ICMR Sponsored National Symposium on

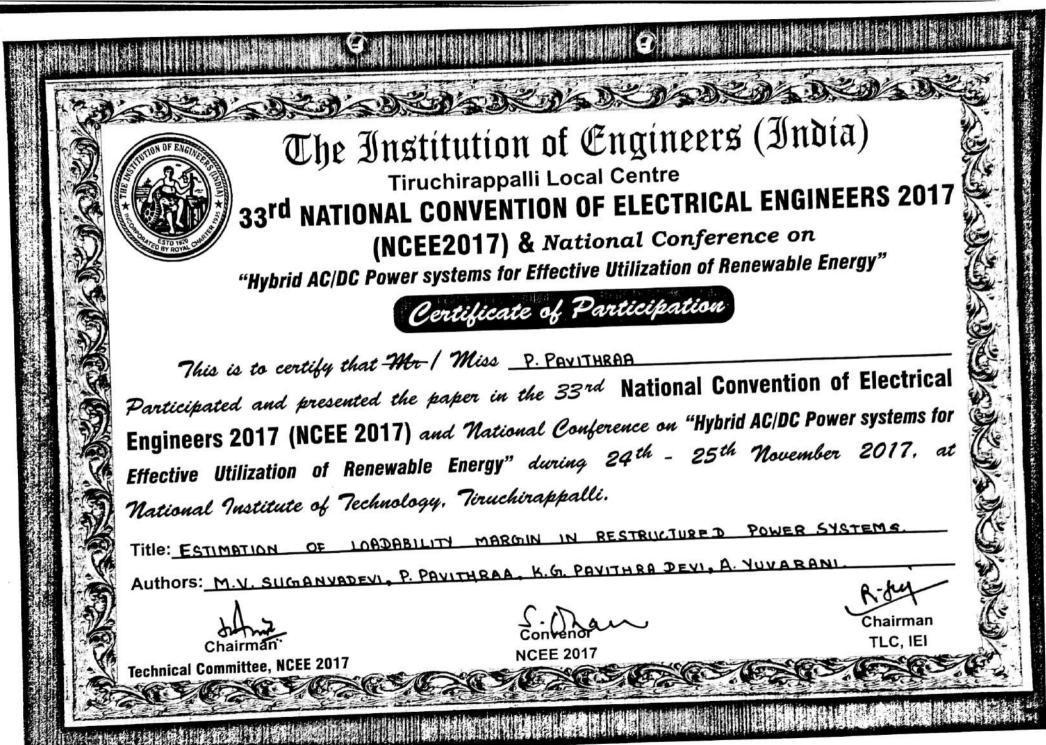
Internet of Things: Unlocking New Solutions in HealthCare

#### Certificate of Appreciation

	This is to certify that Mr/Ms	MEENATCHI	V			_ of
SARANATH COLLEGE OF	ENGINFERING	has	won	FIRST	PRIXE	
in PAPER PRESENTE		_ in ICMR spons	ored I	Vational.	Symposiu	m on
"Internet of Things: Unlock	king New Solutions in Healt	thcare"organised by	у Дер	artment	of Electr	onics
and Communication Engineer	ing and IEEE EMBS during 1.	3th & 14th October	2017			



Principal



#### KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY



(Accredited by NAAC with B++ Grade, Approved by AICTE-New Delhi,
Affiliated to Anna University, Chennai, An ISO 9001:2008 Certified Institution)
Namakkal - Trichy Main Road, Tholurpatti(P.O),
Thottiam(Tk), Tiruchirapplli - 621215.

One Day National Conference
On

#### ENGLISH LANGUAGE, LITERATURE AND CULTURE

Organized By Department of English

#### **CERTIFICATE OF APPRECIATION**

This is to certify that Dr. / Mr. / Ms. VISHNUCHANDER, J'- FEE
of SARANATHAN COLLEGE OF ENGINEERING has Participated / Presented a
paper on TEACHING ENGLISH AS A SECOND LANGUAGE in the
National Conference held on 4th March 2017.

ORGANIZING SECRETARY

PRINCIPAL



# KonSunadu COLLEGE OF ENGINEERING & TECHNOLOGY



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai) (Accredited by NAAC with B++ Grade, An ISO 9001:2000 Certified Institution)

Namakkal - Trichy Main Road, Tholurpatty - 621 215, Thottiam Taluk, Trichy.

# NATIONAL LEVEL, TECHNICAL SYMPOSIUM 2K'17

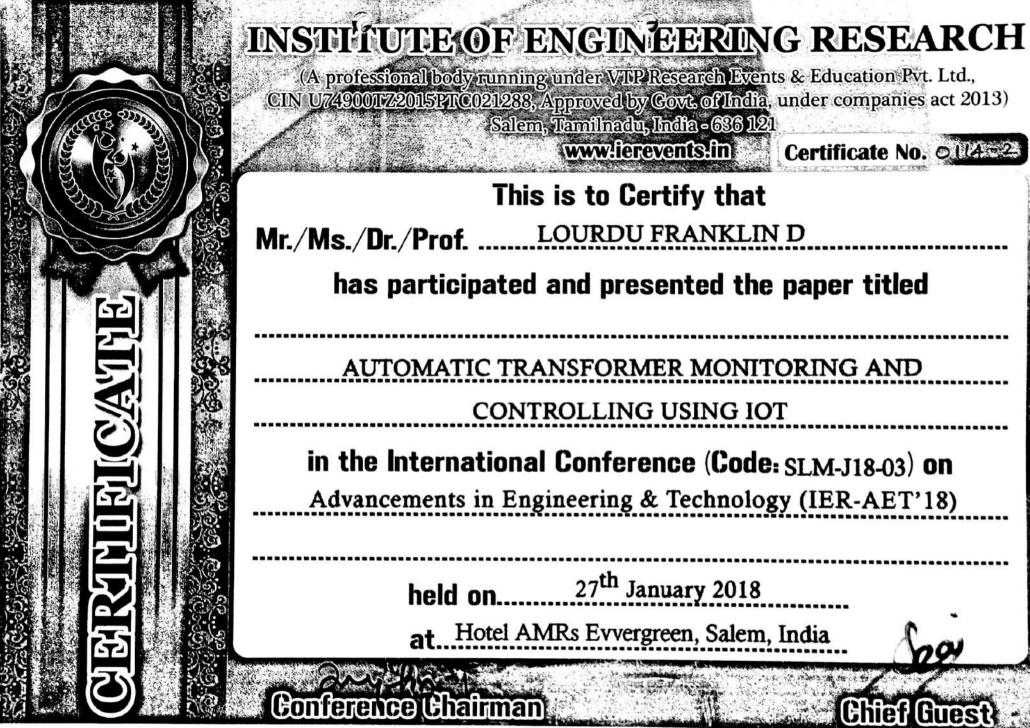
# Certificate

This is to certify that Mn/Mrs./Ms. K. Abinaya
of Saranathan College of Engineering
has won the First / Second / Third place in the event / paper presented on
AI in Electrical Engineering
one day National Level Technical Symposium - TEK CLUSTER'17 organized by the
Department of Flectrical & Electronics Engineering
on 12 <sup>th</sup> August, 2017.

Organizer

Principal

Chairman



Page 108 of 329



(Approved by AICTE, New Delhi & (Willated By Anna University, Chennal) Venkateswara Nagar, Panjapur, Tiruchirapalli-620012

### Department of Electrical and Electronics Engineering

In association with



The Institution of Engineers (India), Kolkata

### CERTIFICATE

This is to certify that Mr./Ms. FRANCIS ADAIKALA RAT . A	Participated and
presented a Paper entitled AUTOMATIC ENERGY METER READING	SYSTEM
USING GSM MODEM	
in the National Conference on "Cutting Edge technologies in Electrical, Communication	and Soft Computing
techniques" (NCCEECS'18) held on 9 <sup>th</sup> March 2018 organized by Department of EEE, Saranathan Co	ollege of Engineering,
Tiruchirapalli, under the sponsorship of The Institution of Engineers (India), Kolkata.	

Dr.S.VIJAYALAKSHMI Organising Secretary

Dr.C.KRISHNAKUMAR Professor & Head/EEE Convener Dr.D.V.ALAVAN
Principal

Scanned with CamScanner



# International Conference on Modern Global Research in Engineering and Technology

Perambalur 10th March 2018

This is to certify that A. FRANCIS ADAIKALA RAJ

SARANATHAN COLLEGE OF ENGINEERING, TRICHY ..... has done

his/her excellence is presenting research paper titled

GSM BASED AUTOHATIC ENERGY HETER READING SYSTEM.

..... at Perambalur 10th March 2018





# CERTIFICATE

### OF PARTICIPATION

This is to certify that

Rediscover K. Pare I Beedlastin

ŢŪſĊijĊijĸŎŢſŢĬŢŶſijĬŢŧĊĊĬţŎŴijĸŎIJŢĬVĊſĬĬŊĊĬijŎĸĬĸĸĬ ŶijŴĸŊĸĊĸĬijĸĸĸijĸĠĬŢĬĸĸĸŎĊĬĬŊijĸĸĸĊĸĬijĸŊĬĸĸĸĊĸĸĸĸijijij

K. Ramanh L

**Organizing Secretary** Dr.K.Ramash kumar

has participated in the Two Days INTERNATIONAL CONFERENCE ON "CONTEMPORARY TOPICS IN

OF SARANATHAN COLLEGE OF ENGINEERING

ELECTRICAL AND ELECTRONICS ENGINEERING"

from 27-02-2018 to 28-02-2018 Organized by

Department of Electrical and Electronics Engineering.

Dr. / Mr. / Ms. R. GIOKULAN

Dr.T.Rammohan

Principal Dr.P.Vijayakumar



### Decennium Year 2017-2018

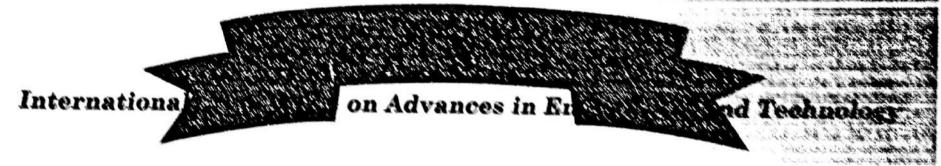
# KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1986)

Enchanari Post, Coimbatore - 641021, Tamilanda, India

Department of Mechanical Engineering



Organising Secretary

Convener



# ayantra

からとうとも、りがりの で ちょうすべんだい

I-RTS Lab
Department of Computer Science and Lagracering
Indian Institute of Technology Bombay

Powni Mumbii 406 676



### Certificate of Participation

This is to certify that N Muthu Karuppan, a student of Saranathan College of Engineering, Tiruchirappalli has participated in the Regional Finals of the e-Yantra Ideas Competition (eYIC-2018) held at Dr. G R Damodaran College Of Sustence, Coimbatore on Wednesday, 21st February 2018.

He/She is a member of the team having the following team members,

- 1. N Muthu Karuppan
- 2. Leo Aldrinraj A S
- 3. Madhanraj
- 4. G Manoranjan

Mentored By: Prof. Gayathri Natarajan

This team demonstrated the project titled "Apcimal For Smart City Development (Air Pollution Control And Traffic Management Drone)".



Prof. Kavi Arya Principal Investigator, c Yastra Professor

Department of Computer Science and Engineering Indian Institute of Technology Bombuy



Nedalization and introduction place in transmission

s & arrive is a project apostorical by Militals. Lorenzonment of India, ander the National Mission on Education through ICT (NMEICT).

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# SARANATHAN COLLEGE OF ENGINEERING TRICHY – 620 012

### **IEI STUDENTS' CHAPTER**

Department of Electrical and Electronics Engineering

### Certificate

This is to certify that K.SUBALAKSHMI

has won the FIRST Place in the QUIZ COMPETITON conducted by IEI students' chapter on 15-09-2017 (Engineer's Day) at Saranathan College of Engineering.

Dr. C. Krishna Kamar (Head- Dept of EEE) Dr. D. Valavan (Principal)



# Certificate of Participation

UDHAYANIRANJANA. V III YEAR EEE

SARANATHAN COLLEGE OF ENGINEERING

TRICHY TAMILNADU

has participated in

**NEW INDIA STUDENT CHAMPIONSHIP 2018** 

The Largest Learnathon of India

conducted on 03 Feb 2018.

Rajesh R Nambiar Salesforce Academic Alliance Project Number

			ING COLLEGE RONICS ENGINEERING
.¥≘iox=			S/S POORV
		PARTICI	
This is to	certify that Mr.	/ MsVISWE	ияны. М
SARANATHAN COURSE OF	ENGUMBERING	has parti	cipated in
"SURGE 2k17" held on A			al Level Technical Symposiu
nois of accept month on A	ogosi 12 , 2017.		
A	250	S. Bonith	NUT
Mrs.G.AngalaParameswari & Dr.S.	Premalatha	Dr.S.Srinath	Dr.N.Duraipandian
CO-ORDINATORS		HOD/EEE	PRINCIPAL .





# CERTIFICATE OF $\mathcal{P}_{\mathsf{ARTICIPATION}}$

Inis is to certify that	
Mr./ Ms. C. SRI LAXMIE KRISHNA	of
SARANATHAN COLLEGE OF ENGINEERING	has
participated in the organ	iised
by Currents '18, the national level technical symposium of	the
Electrical and Electronics Department of National Institu	te of
Electrical and Electronics Department of National Institu Technology, Tiruchirappalli, held from 15 <sup>th</sup> to 18 <sup>th</sup> of Febru	ary,
2018.	<i>J</i> .

H. Rusurant.

Mr. H. Ruthrash Chairman, EEEA Chimarosan

Dr. N. Kumaresan Faculty Advisor, EEEA S. Indhe

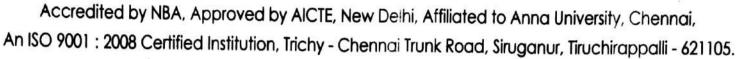
Dr. S. Sudha HoD, EEE

powered by

u-n-i-q technologies



# M.A.M. COLLEGE OF ENGINEERING





# **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

# ELENTRUS - 2K18

### **CERTIFICATE**

TI	nis is to certify that Mr./Ms	J. Sherrin Banu	of
Sar	anathan College of	Engg. Taichy	has participated in the event
of	Jussogle it		
and secured	nd prize in " ELENTRU	S - 2K18" - NATIONAL LEVEL	TECHNICAL SYMPOSIUM
conducted by M.	A.M. College of Engineering on	31 <sup>st</sup> August 2018.	

C. Karthick HOD/EEE

Dr. 3. Ravimaran Principal

rof. U.S. Sarvadayaparan Director

Dr. M.A. Mohamed Nizam Secretary & Correspondent





# K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University Chenna Accredited with 'A+' grade by NAAC

Samayapuram, Tiruchirappalli - 621112, Tamilnadu, India

www.krct.ac.in



SUPPORTED BY















# Certificate of Participation

This is to certify that

Prof. / Dr. / Mrs. / Ms. M. PRIYANGA

of SARANATHAN COLLEGE OF ENMINEERING

has Participated / Presented a paper on PATIENT HEALTHLARE

MONITORING SYSTEM IN AMBULANCE USING TOT

in two day International Conference (ICONNECT - 2K17) organized at

K.Ramakrishnan College of Technology, Trichy on 28th and 29th March, 2017.

0-ORDINATOR

PRINCIPAL

Page 119 of 329



# Certificate of Participation

This is to certify that

Prof. / Dr. / Mr. / Mrs. / Ms. M. RIZWANA

of SARANATHAN COLLEGE OF ENGINEERING

has Participated / Presented a paper on SIMULATION OF SINGILE

PHASE MATRIX CONVERTER USING SPWM FOR LOW FREQUENCY MOTOR CONTROL APPLICATION in two day International Conference (ICONNECT - 2K17) organized at

K.Ramakrishnan College of Technology, Trichy on 28th and 29th March, 2017.

O-ORDINATOR

PRINCIPAL





# ALL INDIA DESIGN COMPETITION FOR ENGINEERING STUDENTS - 2016

**GOLD MEDAL** 

in

**ELECTRONICS & TELECOMMUNICATION ENGINEERING** 

Awarded to

RENGA PRAKASH S.

Secretary &

Bhattacherija.

Chairman

Board of Governors, NDRF

President

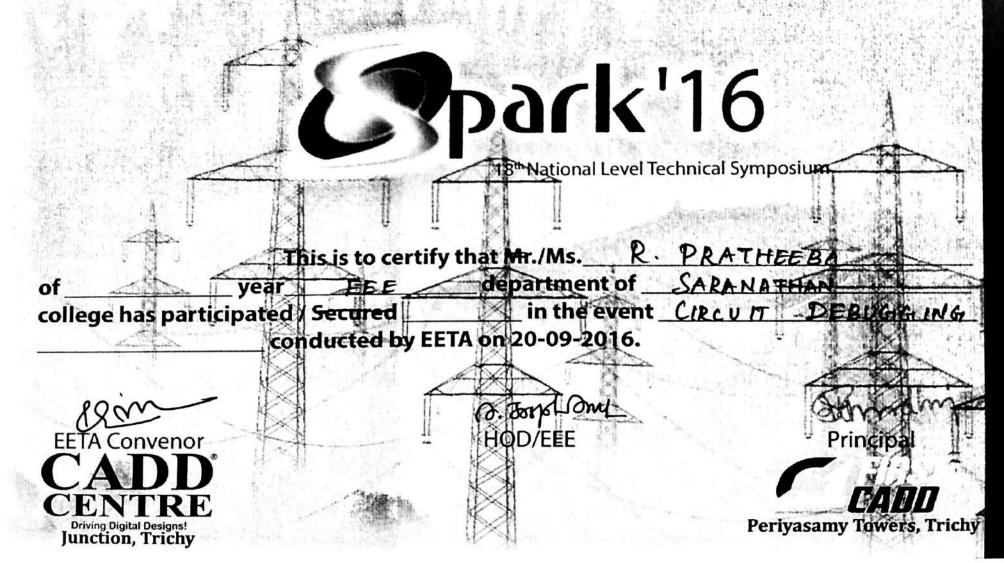


# J.J.College of Engineering and Technology

# HOFOCA 🧖

Ammapettal, Trichy-09

(Affiliated to Anna University of Technology, Chennai, ISO 9001:2008 Certified and NBA Accredited Institution)





# J.J.College of Engineering and Technology



### AMMAPETTAL TRICHM-09

(Affiliated to Anna University of Technology, Chennai, ISO 9001:2008 Certified and NBA Accredited Institution)



18th National Level Technical Symposium

	Thi	s is to certify	that Mr./Ms. M.	KAMALACHANDAR
of FINA.	year	EEE		SARANATHAN
college has pa	- Charles - Char	A12	in the event_	WORKING MODEL
	conc	lucted by EE	TA on 20-09-2016.	



HOD/EEE

Principal

CADD

Periyasamy Towers, Trichy

Page 123 of 329



### PARISUTHAM INSTITUTE OF TECHNOLOGY & SCIENCE

Kamaraj Nagar, NH-67 Ring Road, Nanjikottai, Thanjavur 613 006



# Black & White '16' An Inter College Tech Fest

# Certificate of Achievement

# This is to Certify that

	Mr/ <del>Ms.</del> R. ARUNPRAGATH	
	representing <u>saranathan college of Engig</u>	
	has P <del>articipated</del> / Won Prize	
)	CIRCUIT DEBUGGING Conducted by th	12
	Department of EEE	
	at Black & White '16 Tech Fest conducted from	
	24th August to 26th August - 2016	

All night

Director - Technical Activities

Page 124 of 329



SARANATHAN COLLEGE OF ENGINEERING

VENKATESWARA NAGAR, PANJAPPUR, TIRUCHIPA 620012



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# CERTIFICATE OF A CHIEVE MENT



participated in the even d at Samuathan College of Liging, Trich

won the first/second/third rize.



Dr.M.Padmaa Saaral Coordinator

Dr.D. Valavan Principal



# DILECTOR LO EDETECT OF ENGINEERING



(AN ISO 9001:2008 CERTIFIED INSTITUTION) TRICHY - CHENNAI TRUNK ROAD, SIRUGANUR, TIRUCHIRAPPALLI.

# DEPARTMENT OF ELECTRORIES AND INSTRUMENTATION ENGINEERING

A NATIONAL LEVEL TECHNICAL SYMPOSIUM

# IN IA

Certificate of Merit

THIS IS TO CERTIFY THAT MR. / MS.	M. MEENA KUMARI
-----------------------------------	-----------------

OF SARANATHAN COLLEGE OF ENGINEERINGHAS SECURED 1/H/H PARTICIPATED

IN PAPER PRESENTATION



# Certificate of Appreciation

SARANATHAN COLLEGE OF ENGINEERING has Won / Participated in

PAPER PRESENTATION in e-WHIZZ '16, A National Level'
Technical Symposium Organised by Department of Electrical and Electronics
Engineering on 1st march 2K16.

g.A.M. President

Co-ordinator



Date: 27.08.2015



# M.A.M. COLLEGE OF ENGINEERING

(An ISO 9001 : 2008 Certified Institution)

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Trichy - Chennai Trunk Road, Siruganur, Trichy - 621 105.



# Department of Electrical & Electronics Engineering

# CALNIX ZKIS

Uniformal (exel feelinfeed) Symposium



This is to certify that Mr./ As M. FIARI

of SARANATHAN COLLEGE OF ENGG has Won +/ II / HH

Prize / Participated in PAPER PRESENTATION contest.

Dr. Stiftus Hod

Dr. S. Revimaran
Principal

Prof. U.S.Sarvadayaparan

Page 128 of 329



# **SRI BHARATHI**

# **ENGINEEERING COLLEGE FOR WOMEN**

KAIKKURICHI, PUDUKKOTTAI-622 303

Approved by AICTE New Delhi & Affiliated to Anna University, Chennai.

**DEPARTMENT OF ECE & EEE** 

# A NATIONAL LEVEL TECHNICAL SYMPOSIUM POTENZIA"16

<u>Certificate</u>

This is to certify that Mr/Ms. A. VALSHNAVA DEVI. of SARANATHA

COLLEGIE OF ENGINEERING has presented a paper entitled Landquake evalution of conv

buildings...using...and Secured.......I........Place in National Level Technical Symposium Lowpower wireless Semor N/w
(POTENZIA'16) Organized by Sri Bharathi Engineering College for Women,

Kaikkurichi, Pudukkottai-622 303, on 12th March 2016.

CONVENER

Page 129 of 32 NCIFAL





# **SRI BHARATHI**

# **ENGINEERING COLLEGE FOR WOMEN**

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DEPARTMENT OF ECE & EEE

A NATIONAL LEVEL TECHNICAL SYMPOSIUM

POTENZIA"16

<u>Certificate</u>

This is to certify that Mr/Ms	of.&.aran.biha
COLLEGIEO.FEN.BINEE.RIN.Gthas participated the eventC.I.	RCUITDEBUGUING
and securedPlace in National Lev	vel Technical Symposium
(POTENZIA'16) Organized by Sri Bharathi Engineer	ring College for Women,
Kaikkurichi, Pudukkottai-622 303, on 12th March 2016.	

CONVENER

Page 130 of BRINCIPAL



Date: 27.08.2015



# M.A.M. COLLEGE OF ENGINEERING

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Trichy - Chennai Trunk Road, Siruganur, Trichy - 621 105.



# **Department of Electrical & Electronics Engineering**

# CALNIX ZUIS

national level Technical Lymposium



Dr. S. Titus

Dr. S.Ravimaran

Prof. U.S.Sarvadayaparan



# **SRI BHARATHI**

### **ENGINEERING COLLEGE FOR WOMEN**

**KAIKKURICHI, PUDUKKOTTAI-622 303**Approved by AICTE New Delhi & Affiliated to Anna University, Chennai.

**DEPARTMENT OF ECE & EEE** 

# A NATIONAL LEVEL TECHNICAL SYMPOSIUM POTENZIA"16

<u>Certificate</u>

This is to certify that Mi	r/Ms. M. MEENAKUMARI	of SARANATHA
ENGINEERING C	OLLEGIEhas participated the event	ONNEXTION
and secure	ed. T. Place in National Leve	el Technical Symposium
( POTENZIA'16)	Organized by Sri Bharathi Engineeri	ng College for Women,
Kaikkurichi, Pudukkott	ai-622 303, on 12th March 2016.	

CONVENER

PRINCIPAL Page 132 of 329

CHAÎRMAN



# The Institution of Engineers (India)

IEI

TIRUCHIRAPPALLI LOCAL CENTRE



This is to certify that Shri. J. Keerthana, BE (EEE), of Saranathan College of Engineering, Electrical and Electronics Engineering, Student Chapter participated in the Elocution Competition and won the Third Prize. The Competition Organised in connection with 49th Engineers Day, 15 Sep 2016.

Honorary Secretary

Chairman



# CERTIFICATE OF PARTICIPATION

Mr. Aaditya R Dhoot Chairman, ELECRAMA-2016

&

Mr. Babu Babel President, IEEMA

along with the organising committee of ELECRAMA-2016 & IEEMA Executive Council is proud to award this certificate to

Mr. Hari M

Saranathan College of Engineering

With Team Project - PR-625395

Power Quality Analyzer at Affordable Cost for Academic Applications

for participation in Engineer Infinite 2016, a National Level Engineering Student Project Competition seeking practical solutions to challenges in the Electrical Energy Sector, held at

**ELECRAMA-2016** 

Mr. Aaditya R Dhoot

Chairman, ELECRAMA-2016

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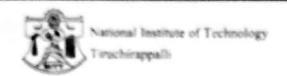
Mr. Babu Babel President, IEEMA

Organised by:











# Certificate of Participation

This is to certify that
Mr. / Ms. \_ THWARAKKESH & B

SARANATHAN COLLEGE OF ENGINEERING

has participated in the TECH QUIZ

event werkshop organized by Currents' 16.

the national level technical symposium of the

Electrical and Electronics Engineering Department

of National Institute of Technology, Tiruchirappalli,

held from 18th to 21st February, 2016.

Dr. K. Sundareswaran HoD - EEE H. Kel. Cht.

Dr. M. Venkata Kirthiga Faculty Advisor- EEEA Und al Que

Mr. Sudarshan V. Chairman - EEEA



Powered by



# **ICE**

### SARANATHAN COLLEGE OF ENGINEERING

Venkateswara Nagar, Panjappur, Tiruchirapalli-12

### Certificate of Appreciation

This is to certify that, Mr/Ms. NISHA FRANCY. S

department of INSTRUMENTATION AND CONTROL ENGINEERING

has actively participated in the one day workshop titled,

"IMPACT" conducted on 14-03-2019.

Co-ordinator

Training and Placement

# SARANATHALI COLLEGE OF ENGINEERING Venkateswara Nagar, Panjappur, Tiruchirapalli-12

### **Certificate of Appreciation**

This is to ce	rtify that, Mr/Ms. SURYA.S	- 1
denartment	t of The second	2
aspartment	t of Instrumentation and Control	ENGINEERING
has actively	participated in the one day worl	kshop titled,
"IMPACT"	conducted on 14-03-2019.	
Munda		
Co-ordinator	Head	Why provided
	Training and Placement	Principál /







# CERTIFICATE

This is to certify that Mr./Ms. RAVIKIRAN has secured <u>£</u> place in the SARANATHAN COLLEGE event IDEA PRESENTATION \_\_\_ at DAKSH'19, the International Techno-Management fest, SASTRA Deemed University held from February 22 to 24, 2019

of sunblarrates Arun Bhaarathi A

(Student Co-ordinator)

Dr. Vaidhyasubramaniam \$ (Convenor)















TATA COMMUNICATIONS

# CERTIFICATE

This is to certify that Mr./AA	S. AHAMED ZUHOOR	· A · G1 of
SARANATHAN COLLEGE	has secured_	<b>T</b> place in the
Event IDEA PRESENTATION	- GENE RAL	at DAKSH'19,
the International Techno-Mo		
held fro	m February 22 to 24, 20	19
L'ountlavalle		C/Bine

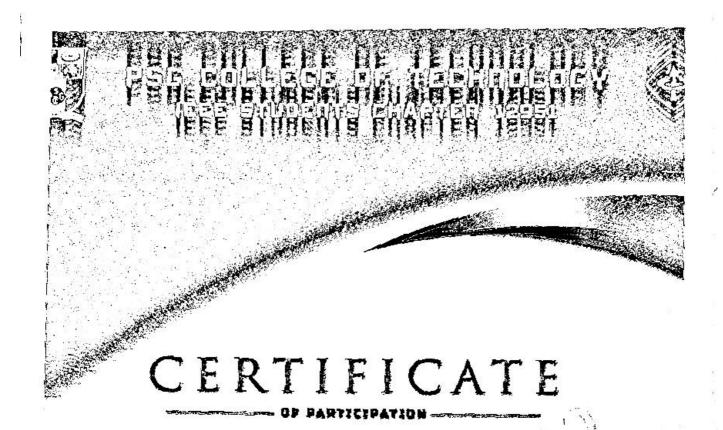
Arun Bhaarathi A (Student Co-ordinator)

Dr. Vaidhyasubramaniam S (Convenor)









This is to certify that:

17379 17404 92474Vs 144		910 D., 1901
Mr./ Ms.	CALLAN	
7411./ TATE.	FAHAD	
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of SARANATHAN COLLEGE OF ENGINEERING

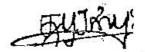
nas participated in the events of SRiSHTi2k18, a National level

Technical Symposium held on 13th and 14th October, 2018

at PSG College of Technology.

of Indragan

11100



# NA UNIVERSITY SINSTITUTE OF TECHNOLOGY INSTRUMENTATION ENGINEERING



# CERTIFICATE

### PARTICIPATION

E. Justin Winster CHAIRMAN,IEA Dr. D. Vasanthi
FACULTY ADVISOR,IEA



#### ANNA UNIVERSITY MADRAS INSTITUTE OF TECHNOLOGY EPARTMENT OF INSTRUMENTATION ENGINEERING



#### **PARTICIPATION**

This is to certify that Mr./MsBUVANESHWARI. S
SARANATHAN COLLEGE OF ENGINEERWG has participated in
LINE FOLLOWER of INTECHO'19, a National Level Technica
Symposium held during 25 & 26th January ,2019 organized by Instrumentation
Engineers Association, MIT, Anna University, Chennai.

جرد کانستان کا کانستان E. Justin Winster

CHAIRMAN, IEA

Dr. D. Vasanthi

FACULTY ADVISOR, IEA



# MADRAS INSTITUTE OF TECHNOLOGY DEPARTMENT OF INSTRUMENTATION ENGINEERING



#### CERTIFICATE

of PARTICIPATION

This is to certify that Mr./MsKIRTHIKA:Vof
SARANATHANCOLLEGIEOFENGINEERING has participated in
LINE FOLLOWER of INTECHO'19, a National Level Technical
Symposium held during 25 & 26th January ,2019 organized by Instrumentation
Engineers Association, MIT, Anna University, Chennai.

E. Justin Winster

CHAIRMAN, IEA

Dr. D. Vasanthi

FACULTY ADVISOR,IEA

Dr. N. Pappa

HEAD OF THE DEPARTMENT, IE

# INA UNIVERSITY NOTIFICATION ENGINEERING F INSTRUMENTATION ENGINEERING



#### CERTIFICATE

of PARTICIPATION

LINE FOLLOWER, .... LINE MAZE ....... of INTECHO'19, a National Level Technical Symposium held during 25 & 26th January, 2019 organized by Instrumentation Engineers Association, MIT, Anna University, Chennai.

E. Justin Winster
CHAIRMAN, IEA

Dr. D. Vasanthi

FACULTY ADVISOR,IEA

Dr. N.

# SARANATHAN COLLEGE OF ENGINEERING Venkateswara Nagar, Panjappur, Tiruchirapalli-12

#### Certificate of Appreciation

This is to certify that, Mr/Ms. LINGTAN. N

department of INSTRUMENTATION AND CONTROL ENGINEERING

has actively participated in the one day workshop titled,

"IMPACT" conducted on 14-03-2019.

Munda Co-ordinator

Training and Placement

Page 146 of 329

# ANATHAN COLLEGE OF ENGINEERING Venkateswara Nagar, Panjappur, Tiruchirapalli-12

#### **Certificate of Appreciation**

This is to certify that, Mr/Ms. SHARMIN SHAKESH.P	
department of INSTRUMENTATION AND CONTROL ENGINEERING	,
has actively participated in the one day workshop titled,	
"IMPACT" conducted on 14-03-2019.	4

Co-ordinator

Training and Placement

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# SARANATHAN COLLEGE OF ENGINEERING TIRUCHIRAPALLI -620 012



#### **DEPARTMENT OF INFORMATION TECHNOLOGY**

CERTIFICATE

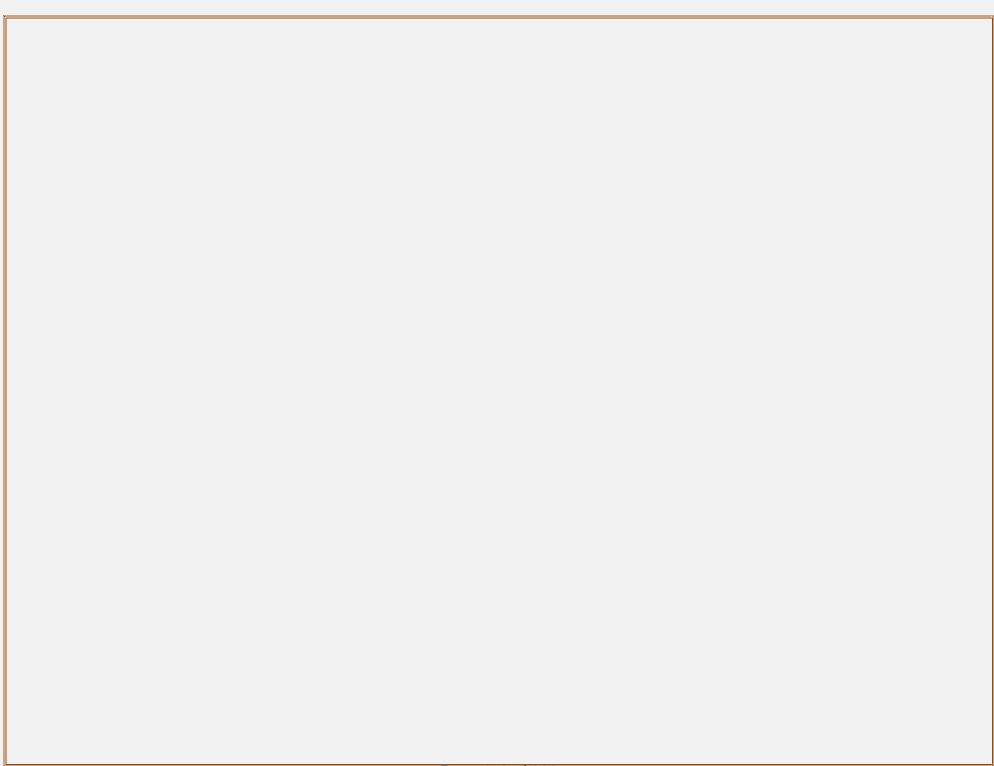
This is to certify that Mr/Ms. Sushrutan.G.S has secured 1st place in the Paper Presentation of Digital Jewellary on 11.9.2018

R. Smetti

**HOD** 

0g/hi

**PRINCIPAL** 





#### SARANATHAN COLLEGE OF ENGINEERING TIRUCHIRAPALLI -620 012



#### DEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE

This is to certify that Mr/Ms. Amruth Shogul.R has secured 1st place in the Paper Presentation of Biometric Voting System on 11.9.2019

R. Simetti

**HOD** 

offin

**PRINCIPAL** 





TIRUCHIRAPPALLI - 620 012

#### **DEPARTMENT OF INFORMATION TECHNOLOGY**

# CERTIFICATE

This is to certify that Mr/Ms. P.A.Nilanie has secured 3<sup>rd</sup> place in the event of "Data Structure Programming" Contest organized by the Department of INFORMATION TECHNOLOGY, Saranathan College of Engineering on 28.12.2018

R. Smetti

HoD

PRINCIPAL PRINCIPAL





TIRUCHIRAPPALLI – 620 012

#### DEPARTMENT OF INFORMATION TECHNOLOGY

# CERTIFICATE

This is to certify that Mr/Ms. S. Harish has secured 2<sup>nd</sup> place in the event of Rapid fire on 19.03.2019

R. Smetti

PRINCIPAL





#### TIRUCHIRAPPALLI – 620 012

#### DEPARTMENT OF INFORMATION TECHNOLOGY

# CERTIFICATE

This is to certify that Mr/Ms. S. Sethurathnam has secured 3<sup>rd</sup> place in the event of Technical Quiz on 27.07.2018

R. Smetti

PRINCIPAL



#### Department of Information Technology



20.03.2019

#### Submitted to the Principal

#### Sub: Report on intra-department Rapid Fire Event - 19.3.2019-Even semester-2018-2019.

- Department of Information Technology has organized an intra department Rapid Fire Event.
   The II year students were informed about the Rapid Fire Event during the first week of March.
- The circular was put up in the notice board. They were asked to register their names to the staff coordinator Ms.A. Sheelavathi or student coordinators R. Amruth Shogul, Anirvan Vinod S. Kerisan & R. Siva Ganesh.
- Rapid Fire Event is a Technical quiz cum brainstorming event which was conducted to all the students of Second year IT. The event was conducted in two rounds. First round was prelims round using a paper pen based which consist of six rounds in it. The total marks were 30. 6 teams out of 20 teams were selected for the final round based on the scores, The top three teams have been finalized.
- The prize winners are
  - 1 Prize Kishore R , Monesh S , Sabarinathan G
  - II Prize Gowtham Karthik M, Harish S, Nithish Kumar P, Rajendran M
  - III Prize Aarthi L, Prashanthini N, Aiswarya N





#### DEPARTMENT OF INFORMATION TECHNOLOGY TIRUCHIRAPALLI - 620 012.

Date: 30.07. 2018

Ref: SCE/IT/

Headline: Technical Quiz conducted on 27.07.2018 -DO-IT Association event.

Description:

A Technical Quiz was conducted on 27.07.2018 for the II & III year students of IT by the DO-IT Association of IT department at the I Year Computer Lab, RV Block.

Ms.K.Jayashree & Ms.M.N. Israth Rayhana Parveen of final IT coordinated the event. About 60 of II & III year IT registered for the quiz. 48 students attended the contest.

The quiz was conducted online in two rounds. The questions were taken from subjects like DBMS, OS, Architecture, Data Structures and Programming languages - Java, C, C++.

The quiz was conducted at 1.30p.m. 25 questions were asked for 30 minutes duration in the first round. About 19 students were shortlisted for the II round. In the II round, 20 questions were given for duration of 25 minutes.

The winners of the technical quiz are:

I place: Ms.S.Niraimathi - III Year

II Place: Mr.K.Praveen Kumar – II Year

III Place: Mr.S.Sethurathnam –II Year & Ms.A.Prathema Rachil- III Year

Event Coordinator

HOD/IT

0. l\_n



#### SARANATHAN COLLEGE OF ENGINEERING Department of Information Technology



#### DO-IT ASSOCIATION PAPER PRESENTATION CONTEST

12.09.2018

#### submitted to the Principal

Sub: Intra-department Paper Presentation Contest - 11.9.2018-Odd semester-2018-2019.

- Department of Information Technology has organized an intra department paper presentation contest. The II & III year students were informed about the paper presentation contest during the first week of August. Contestants were asked to present papers about the "Recent Advancement in Technologies". Students were ranked based on the concepts (new ideas), clarity of the concepts and the presentation skill.
- The circular was put up in the notice board. They were asked to register their names and titles to the staff coordinators Ms.A.Sheelavathi, A.P/IT and Ms.K.Muthukarupayee, A.P/IT.
- About 40 teams of 2/1 member(s) each 30 from III year & 10 from II year have registered. Eight (8) minutes are allotted for the oral presentation (with PowerPoint) and four (4) minutes for questions from the audience/ juries.
- · The prize winners are
  - Sushrutan.G.S of III year IT- "Digital Jewellery" I Prize
  - II Prize Amruth Shogul.R of II year IT- Biometric voting System"





## Department of Information Technology (Accredited By NBA & IEI)



28-12-2018

#### Headline:

Department of Information Technology conducted Data structure Programming Contest for 2<sup>nd</sup> year and 3<sup>rd</sup> year IT students in association with DO-IT on 28.12.18.

#### Description:

- Data structures programming is one of the intricate topic in the IT field. Focused on the placement aspect, the department of Information technology has conducted "Data structure programming" contest on 28.12.2018 during evening hours. The test portion covered Stack, Queue, Tree traversal and Linked list concepts.
- In this contest 41 students have participated. Thirteen students from 2<sup>nd</sup> year IT and Twenty eight students from 3<sup>rd</sup> year IT were short listed for next round.
- This contest conducted in two rounds. First round was multiple choice questions. This
  round was conducted as an online test.
- Out of 41 students, 35 students were shortlisted to 2<sup>nd</sup> round. In 2<sup>nd</sup> round, the students were asked to implement the program by using C/C++ programming language.
- Four students were selected as winners based on their scores.

Winners are:

1st Prize - Mr.S.Kerisan (III year IT)

2<sup>nd</sup> Prize- Mr.P.Praveen( II year IT)

3<sup>rd</sup>Prize shared by 2 students – Ms.P.A.Nilanie (II year IT) and Ms.A.JoyciePrincia (II year IT)

Student Coordinators: 1. Mr.S. Vignesh (IV year IT)

2. Mr.N.Saran (IV year IT)

Faculty Organiser: Ms.J.Sangeethapriya, AP/IT

Prepared By: J.Sangeethapriya

30/12

R.S. HoD/IT,

Dr.R.Sumathi

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# **MECH**



## Jayaram College of Engineering and Technology

(Affiliated to Anna University), Karattampatti - Pagalavadi, Thuraiyur(T.K), Trichy-621014, Tamilnadu, India.

In Association with



# Seventh Sense Research Group

Chennai Division, Website: www.internationaljournalssrg.org

#### **Certificate of Participation**

This is to certify that Dr./Mr./MsHARIENTHIRAN.R.
of SARANATHAN COLLEGE OF ENGINEERING
has attended/presented a paper entitled "SHORT. REVIEWQN. RECENT. TRENDS
IN SOLAR DRYING SYSTEMS
" in the
4th International Conference on Current Research in Engineering Science and Technology
(ICCREST-2019) on 08th March 2019.

Principal

Editor SSRG Journals



# Jayaram College of Engineering and Technology

(Affiliated to Anna University), Karattampetti - Pagalavadi, Thuraiyur T.K), Trichy-621014, Tamilnadu. India.

in Association with



## Seventh Sense Research Group

Chernal Division, Webster www.internationaljournalismp.org

#### Certificate of Participation

of SARANATHAN COLLEGE OF ENGUMENTED A paper entitled "IN SOLLAR DRYING SYSTEMS	ARAYIND S  NEERING  SHORT REVIEW ON RECENT TRENDS  " in the
	search in Engineering Science and Technology
(ICCREST-2019) on 08" March 2019.	
	Editor SSRG Journals

Page 161 of 329

International Conference on Current Research in Engineering Science and Technology
(ICCREST-2019)

# Short Review on Recent Trends in Solar Drying Systems

Aravind S, Harienthiran R, Sridharan M

Department of Mechanical

Saranathan College of Engineering

Tiruchirappalli - 620012

aravymojo@gmail.com

Abstract— Energy obtained from the sun is known as solar energy. Various applications of solar energy include electricity production, water heating, distillation, drying of foods, cooking, etc. In this study we focused on solar drying process and its performance enhancement. With an aim of improving performance further, numerous research works are conducted by solar dryer based researchers. Such highlighted works are consolidated in terms of drying rate, mass of moisture removed, drying efficiency, etc. In addition, this paper also highlights results of various machine learning based papers in the field of solar energy and drying.

Keywords— Solar; dryer; performance; enhancement; machine; learning.

#### INTRODUCTION

Drying of food products involves removal or reduction of moisture content. Drying decreases the weight and volume of the products which reduces their packing, storage and transportation costs. The life of the food products can also be increased by drying process and make the product available during off season. Thermal energy is a key factor in dryers for which electric heaters or petroleum products are often used. Solar driers are widely helpful in industrial applications. So the reduction of fossil fuels utilization is possible. Now a days design of solar drier are much more concentrated, such that the obtaining the higher efficiency within the minimum surface area. The main boon of solar drier started when the results of many experiments has good efficiency. The one of the methods of drying the product with simple design consideration has become necessity. This can be achieved in solar heatrier system

#### II.LITERATURE SURVEY

Shobana Singh et.al [1] has undergone review on variety of solar driers designed for drying the food products. To reduce the complexity in various components of dryer system, there is a need to develop simple and effective theoretical model with suitable boundary conditions that can satisfactorily describe the drying process in all test conditions. They made an experimental setup for drying the food product. They investigated efficiency by varying the size of food product. It is found that dryer with sample thickness of 8mm and loading

density of 4.33 kg/m<sup>2</sup> can operate optimally for absorbed energy of 450W/m<sup>2</sup> and air mass flow rate of 0.017 kg/s.

Ashish Agrawal et.al [2] described that a solar dryer without heat storage provides air with large variations in temperature to the dryer, and drying of food is not possible during partial clouds and late evening hours. They described various reviews of researchers, to store the heat in dryer. Paraffin wax was used as a heat storage material in most of the previous research works because of its low cost and easy availability, but the major drawback of paraffin is low thermal conductivity.

M. Chandrasekar et.al [3] conducted an experimental investigation using the outlet of A/C as an inlet air into the dryer. In this work of sending the hot air inside the dryer, helps a lot in drying the sultana grapes (seedless) at a faster rate than normal mode. A possibility of 13% increase in solar dryer efficiency was demonstrated due to the utilization of solar dryer with A/C condenser unit compared to the conventional indirect solar dryer.

C.O.C. Oko et.al [4] presented the analysis of a coupled heat and mass transfer process in a fixed-bed solar grain dryer, and Humidity of air, moisture concentration, temperature were measured in a solar grain dryer in Nigeria, at the latitude of 4.858°N and longitude of 8.372°E. The process was also modeled, mathematically, by a set of partial differential equations that were coupled within the grain and through the grain boundary with the hot drying air. There was good agreement between the theoretical and experimental results at specified Biot and Posnov numbers, and varying Fourier number. The results of this work will be useful for specifying the design parameters of solar grain dryers.

N. A. Vlachos et al [5] designed a prototype tray dryer equipped with a solar air collector, a heat storage cabinet and a solar chimney. The dryer is straightforward to construct and operate and may be enforced at low value. Considering the various climatic conditions tested (sunny, cloudy or rainy), the drying method reached full completion altogether tests at an inexpensive rate of dehydration. Experimentation over the night, while not the employment of the centrifugal fan, confirmed the system's smart performance relating to the utility of the warmth storage cupboard since the products' water content continued to decrease though at a lower rate.

Sujata Nayak et.al [6] tested the mint and comparison was made to fresh samples. The results are recorded for eight different samples in fresh and dried conditions. it has seen that





Near Samayapuram, Tiruchirappalli - 621 105.

## International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

#### Certificate

This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper	STRAIN ANALYSIS OF CRANK SHAFT WITH INTERNET
	OF THINGS (IOT)
Author	MY L ALLAN LAWLEY
	SARANATHAN COLLEGE OF ENGINEERING





Near Samayapuram, Tiruchirappalli - 621 105.

# International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

#### Certificate

This is to certify that the following paper has been presented in the International Conference on Innovative Engineering Initiatives (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper : STRAIN ANALYSIS OF CRANK SHAFT WITH INTERNET

OF THINGS (IOT)

Author : MY ARAYINDAN N

SARANATHAN COLLEGE OF ENGINEERING.

Prof. S. PALANIYAPPAN
Coordinator

Dr.M. PRABHAKAR Organizing Secretary

or. S. MAENRAJ





Near Samayapuram, Tiruchirappalli - 621 105.

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Title of the Paper	STRAIN ANALYSIS OF CRANK SHAFT WITH INTERNET
	OF THINGS (IOT)
Author	Mr. S. ARAYINTHAN
	SARANATHAN COLLEGE OF ENGINEERING.





Near Samayapuram, Tiruchirappalli - 621 105.

# International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

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Title of the Paper	STRAIN ANALYSIS OF CRANK SHAFT WITH INTERNET
	OF THINGS (IOT)
Author	MY S JAYAKYMAR
	SARANATHAN COLLEGE OF ENGINEERING.

Prof. S. PALANIYAPPAN

Dr. M. PRABHAKAR Organizing Secretary Dr. S. MALIKRAJ





Near Samayapuram, Tiruchirappalli - 621 105.

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OF THINGS (IOT)

Author : MY S JAYAKUMAR.

SARANATHAN COLLEGE OF ENGINEERING.

Prof. S. PALANIYAPPAN

Dr. M. PRABHAKAR Organizing Secretary Dr. S. MALIKRAJ





Near Samayapuram, Tiruchirappalli - 621 105.

## International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

## Certificate

This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper	: EXHAUST FLOW ANALYSIS AND EXPERIMENTAL INVESTIGATION
	OF CATALYTIC CONVERTER USING CFD AND ANN
Author	:A.MANAVALAN
	SARANATHAN COLLEGE OF ENGINEERING

Coordinator

Organizing Secretary





Near Samayapuram, Tiruchirappalli - 621 105.

## International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

#### Certificate

This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper : EXHAUST FLOW ANALYSIS AND EXPERIMENTAL INVESTIGATION

OF CATALYTIC CONVERTER USING CFD AND ANN

Author

. J. MANI RATHINAM

SARANATHAN COLLEGE OF ENGINEERING





Near Samayapuram, Tiruchirappalli - 621 105.

#### International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

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Title of the Paper	EXHAUST FLOW ANALYSIS AND EXPERIMENTAL INVESTIGATION
	OF CATALYTIC CONVERTER USING CED AND ANN
Author	: S: MANIYEL
	SARANATHAN COLLEGE OF ENGINEERING

Coordinator





Near Samayapuram, Tiruchirappalli - 621 105.

#### International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

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Title of the Paper	EXHAUST FLOW ANALYSIS AND EXPERIMENTAL INVESTIGATION
	OF CATALYTIC CONVERTER USIGNED CFD AND ANN
Author	P. NAVEEN
	SARANATHAN COLLEGE OF ENGINEERING



# N C C E E C S

#### SARANATHAN COLLEGE OF ENGINEERING

Panjappur, Tiruchirappalli-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr/Ms. P. Naveen IV yr Mech / SCE has Participated and presented a Paper entitled Exhaust Flour analysis and Experimental investigation of Catalytic Convertex Using CFD and ANN. in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VUAYALAKSHMI Organising Secretary

DR.C.KRISHNAKUMAR
Convener, HOD/EEE

Dr.D.VALAVAN
Principal



# E

## SARANATHAN COLLEGE OF ENGINEERING

Panjappur, Tiruchirappalli-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms. S. Manivel / IV-yx Mech / SCE Participated and presented a Paper entitled Exhaust How analysis and experimental investigation of Catalytic Converter using CFD and ANN in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



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Organising Secretary

Convener, HOD/EEE

Page 173 of 329

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Panjappur, Tiruchirappalli-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

## CERTIFICATE

N C E E C S 2019

This is to certify that Mr./Ms. J. Manizathinam/IVyr Mech/SCE has
Participated and presented a Paper entitled Exhaust Haw analysis and
Experimental. Investigation of Catalytic Converter Using CED And ANN
in the National level Conference on "Cutting Edge technologies in Electrical,
Communication and Soft Computing techniques" (NCCEECS'19) held on
14.03.2019 organized by Department of Electrical and Electronics Engineering,
Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VIJAYALAKSHMI Organising Secretary

DR.C.KRISHNAKUMAR Convener, HOD/EEE Dr.D.VALAVAN
Principal



Panjappur, Tiruchirappalli-620012

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

2019

This is to certify that Mr./Ms. A. Manavalan IV yr Mech ISCE has Participated and presented a Paper entitled Exhaust How analysis and Experimental investigation of Catalytic Conventor Using CFD and ANN. in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VIJAYALAKSHMI
Organising Secretary

DR.C.KRISHNAKUMAR

Convener, HOD/EEE

Principal

Page 175 of 329



Panjappur, Tiruchirappalli-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms. A. Manavalan / IV yr Mech. / SCE has Participated and presented a Paper entitled Exhaust How analysis and Experimental investigation of Catalytic Conventor Using CFD and ANN in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.

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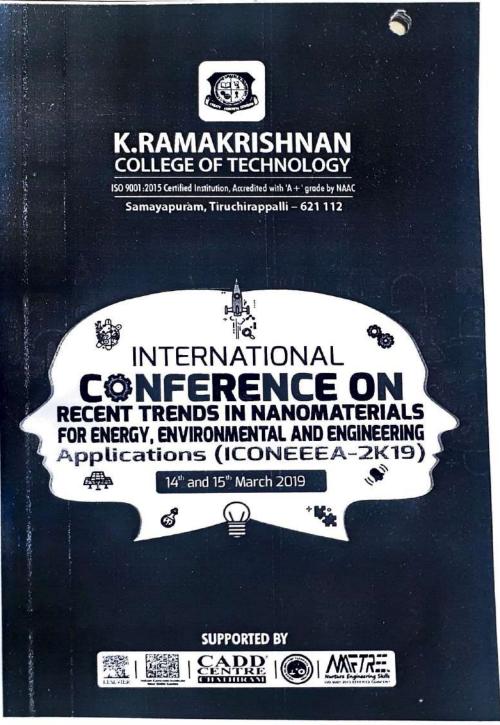
Dr. S.VIJAYALAKSHMI
Organising Secretary

DR.C.KRISHNAKUMAR

Convener, HOD/EEE

Dr.D.VALAVAN Principal

Page 176 of 329





# Certificate Of Presentation

This is to certify that Dr/Mr/Ms/Mrs M. MANIKANDAN of

SARANATHAN COLLEGE OF ENGINEERING

has made the presentation of paper entitled .. EXPERIMENTAL

INVESTIGATION OF ABROSIVE WATER JET

CUTTING PARAMETERS ON SS304 in the International Conference on

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

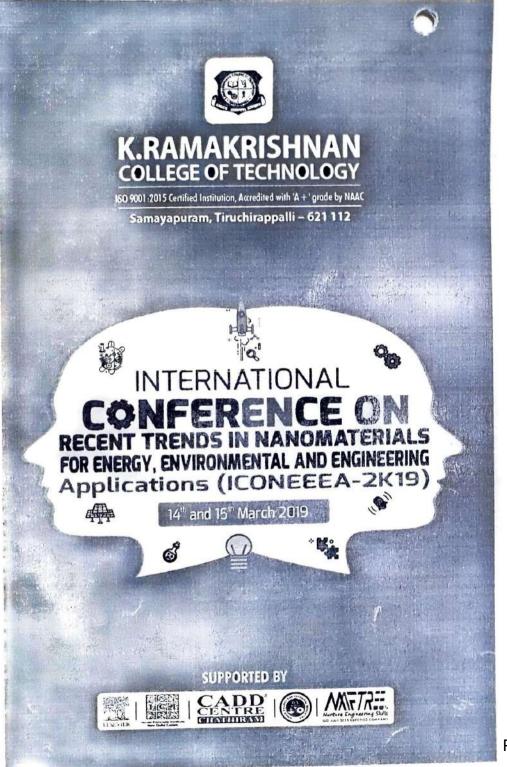
(ICONEEEA-2K19), conducted during 14" and 15" of March 2019 at K.Ramakrishnan College of

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.



Principal

Page 177 of 329



# Certificate Of Presentation

This is to certify that Or/Mr/Ms/Mrs C. 8AKTHIVEL

SARANATHAN COLLEGE OF ENGINEERING

has made the presentation of paper entitled ExperimenTAL

INVESTIGATION OF ABRASIVE WATERJET

CUTTING PARAMETERS ON \$5304 in the International Conference on

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

(ICONEEEA-2K19), conducted during 14th and 15th of March 2019 at K.Ramakrishnan College of

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.

Coordinator

Principal

Page 178 of 329



This is to certify that Or/Mr/Ms/Mrs M. MANIKANDAN

SARANATHAN COLLEGE OF ENGINEERING

has made the presentation of paper entitled EXPERIMENTAL

INVESTIGATION OF ABRASIVE WOTER JEJ

CUTTING PARAMETERS ON \$53046 International Conference on

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

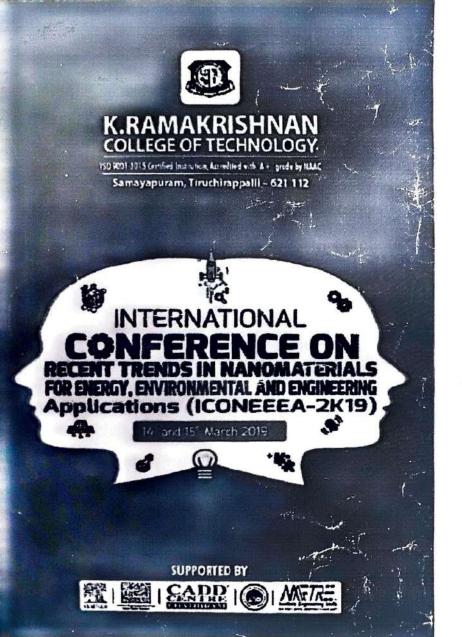
(ICONEEEA-2K19), conducted during 14" and 15" of March 2019 at K.Ramakrishnan College of

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.

Coordinator

S.ML Principal

Page 179 of 329



This is to certify that BY/MY/MS/MYS \_ & . SRIVEN KOTA PRASATHON SARANATHAN COLLEGE OF ENGINEERING. has made the presentation of paper entitled EXDERIMENTAL. investigation of Abrasive water jet CUTTURED PARAMETERS ON 65.304n the International Conference on Pecent Trends in Nanomaterials for Energy, Environmental and Engineering Applications (ICONEEEA-2K19), conducted during 14" and 15" of March 2019 at K.Ramakrishnan College of Technology, Kariyamanikam Road, Samayapuram, Trichy, India.

Pade 480 of 329

Sympa Principal



Panjappur, Tiruchirappalli-620012

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

Participated and presented a Paper entitled Experimental Investigation and Comparative Analysis of Al-6061 Using 19 Onthogonal Array in the National level Conference on "Cutting Edge technologies in Electrical Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering Saranathan College of Engineering, Tiruchirapalli.

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2019

Dr. S.VIJAYALAKSHMI Organising Secretary

DR.C.KRISHNAKUMAR Convener, HOD/EEE Dr.D.VALAVAN

Principal



#### K.RAMAKRISHNAN COLLEGE OF ENGINEERING

Permanently Afficiated to Anna University Channal, Approved by AICTE New Dail ISO 9001-2015 Carolinel Institution, Accredited with 18 greats by NAAC

Samayapuram, Tiruchirappalli - 621 112, Tamilnadu, India

## THIRD INTERNATIONAL CONFERENCE ON INNOVATIONS IN ENGINEERING, TECHNOLOGY AND SCIENCE (ICIETS-2019)

Certificate



This is to certify that Mr/As/Ars/Dr		HARIGARAAN G.K			of		
SARANATHAN C	OLLEGE O	of E	ENGINEERING	'n		depart	ment of
MECHANICAL	ENGINEER	114				_presented a paper	entitled
A RESEARCH	REVIEW	02	FRICTION	STIR	WELDING	PROCESS	_ in the

Third international Conference on Innovations in Engineering, Technology & Science (ICIETS-2019) held on March 21" & 22" 2019.

Programme Convener

Organizing Secretary

Conference Chair and Principal Dr. D. Sriniyasan





## K.RAMAKRISHNAN COLLEGE OF ENGINEERING

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Samayapuram, Tiruchirappalli - 621 112, Tamilnadu, India.

## THIRD INTERNATIONAL CONFERENCE ON INNOVATIONS IN ENGINEERING, TECHNOLOGY AND SCIENCE (ICIETS-2019)

Certificate



This is to certify that Mr/Ms/Mrs/Dr. KARTHI KEYAN	. K		of
SARANATHAN COLLEGE OF ENGINEERING		der	partment o
MECHANIAL ENGINEERING		presented a par	per entitler
A.RESEAR H REVIEW ON FRICTION STIR	WELDING	PROCESS	in the
Third Internatio ial Conference on Innovations in Engineering, Technology &	Science (ICIETS-2019	) held on March 21" 8	š 22 <sup>™</sup> 2019

Programme Convener

Organizing Setretary
Page 183 of 329

Conference Chair and Principal Dr. D. Srinivasan

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COMMCS

#### SARANATHAN COLUMBIA OF ENGINEERING

Panjappur, Tiruchirappath 6::0012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms. A. Abdul Gothar Khan/iv yr Mah fre has Participated and presented a Paper entitled Effect of Process

Parametere in Drilling: A Review
in the National level Conference on "Cutting Edge technologies in Electrical.

Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



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Dr. S.VUAYALAKSHMI Organising Secretary

DR.C.KRISHNAKUMAR Convener, HOD/EEE





Pargonia Pirocheagrath-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms. S. Grangeshwari IV Yr Mech/Sce has Participated and presented a Paper entitled Street of Process Parameters in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VIJAYALAKSHMI Organising Secretary

DR.C.KRISHNAKUMAR Convener, HOD/EEE



Panjappur, Tiruchirappalli-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms. R. Harish IV yr Mech ISCE has Participated and presented a Paper entitled Street of Process Parameters in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VUAYALAKSHMI Organising Secretary

DR.C.KRISHNAKUMAR Convener, HOD/EEE



CCE

E

Panjappor, Tiruchirappalii-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms. S. Manimaran/IV-Yr Mech / SCE Participated and presented a Paper entitled Street of Process Parameters in Drilling: A Review. in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.

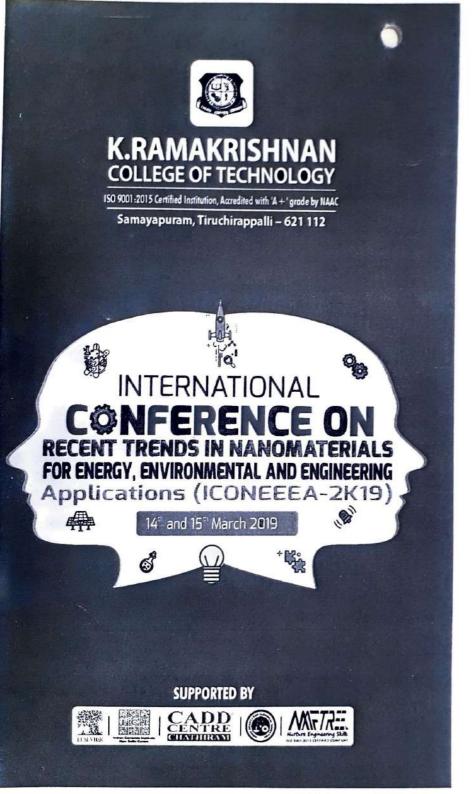


2019

Organising Secretary

DR.C.KRISHNAKUMAR Convener, HOD/EEE

Principal





This is to certify that De/Mr/Ms/Ms P. ELAMATHI

SARANATHON COLLEGE OF ENGINEERING

has made the presentation of paper entitled SHORT REVIEW ON

RECENT TRENDS IN SHORT FLAT

PLATE COLLECTOR SYSTEM the International Conference on

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

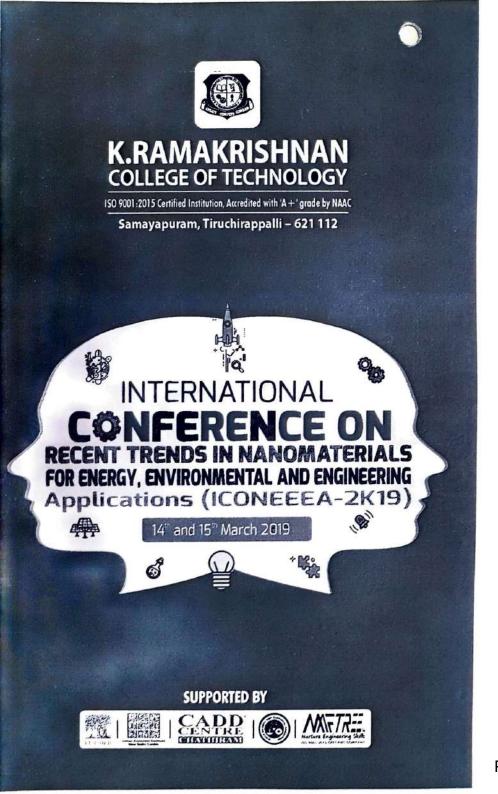
(ICONEEEA-2K19), conducted during 14" and 15" of March 2019 at K.Ramakrishnan College of

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.

Vide

Coordinator





This is to certify that Dr/Mr/Ms/Mrs R. BAVIYORASAN of

SARANATHAN COLLEGE OF ENGINEERING

has made the presentation of paper entitled SHORT REVIEW ON

RECENT TRENDS IN SOLAR FLAT

PLAT COLLECTOR SYSTEM the International Conference on

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

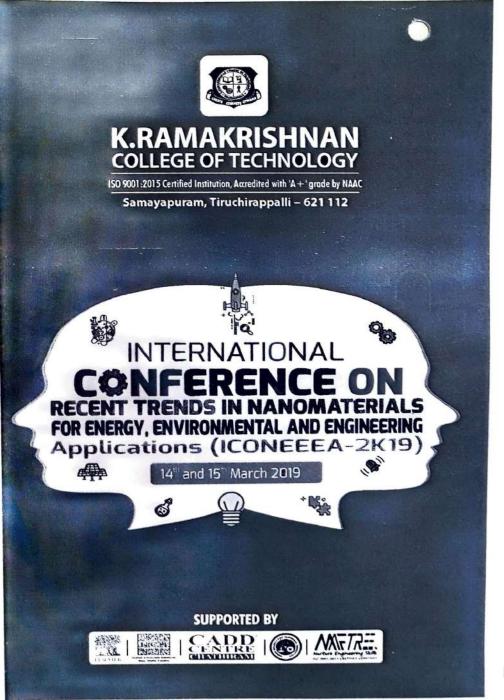
(ICONEEEA-2K19), conducted during 14th and 15th of March 2019 at K.Ramakrishnan College of

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.

Coordinator

Principal

Page 189 of 329

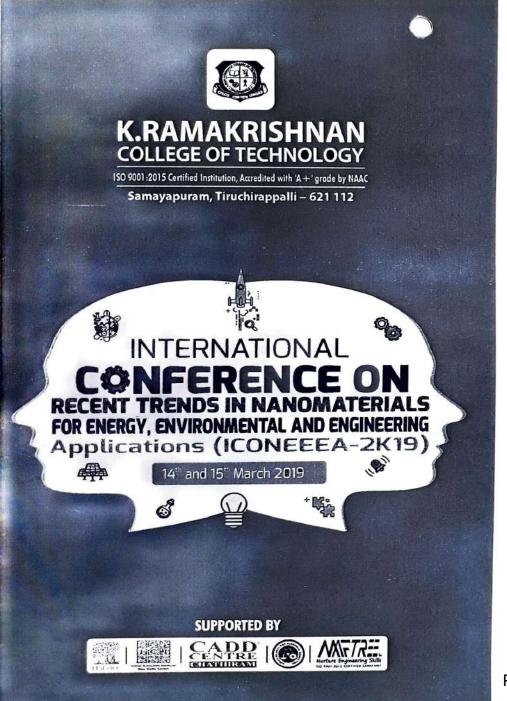


S. JOHN BRITTO This is to certify that Dr/Mr/Ms/Mrs SARANATHAN COLLEGE OF ENGINEERIN has made the presentation of paper entitled SHORT REVIEW ON RECENT TRENDS IN SOLAR FLAT PLATE COLLECTOR SYSTEM \_ in the International Conference on Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications (ICONEEEA-2K19), conducted during 14" and 15" of March 2019 at K.Ramakrishnan College of Technology, Kariyamanikam Road, Samayapuram, Trichy, India.





Page 190 of 329

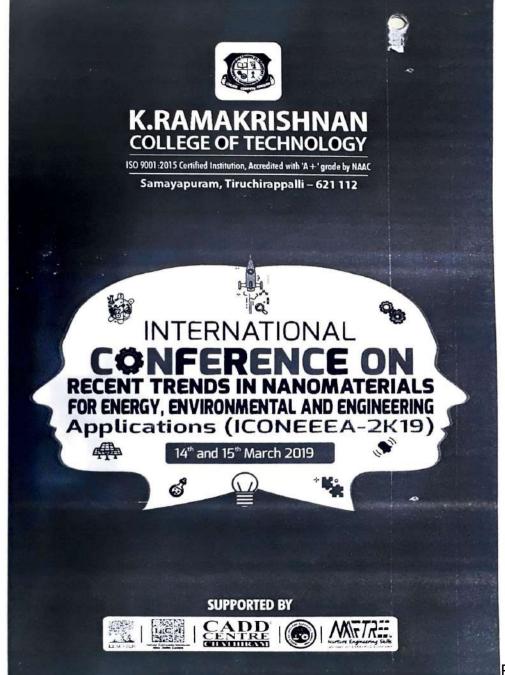


This is to certify that Dr/Mr/Ms/Mrs R. BEERTHIVASAN of BARANATHAN COLLEGE OF ENGINEERING has made the presentation of paper entitled SHORT REVIEW ON RECENT TRENDS IN SOLAR FLAT PLATE COLLECTOR SYSTEM in the International Conference on Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications (ICONEEEA-2K19), conducted during 14th and 15th of March 2019 at K.Ramakrishnan College of Technology, Kariyamanikam Road, Samayapuram, Trichy, India.

Coordinator

Principal Principal

Page 191 of 329





INTERFERENCE ASSEMBLY USING FEA

STUDY AND VALIDATE WITH STRAIN

SENSOR in the International Conference on

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

(ICONEEEA-2K19), conducted during 14th and 15th of March 2019 at K.Ramakrishnan College of

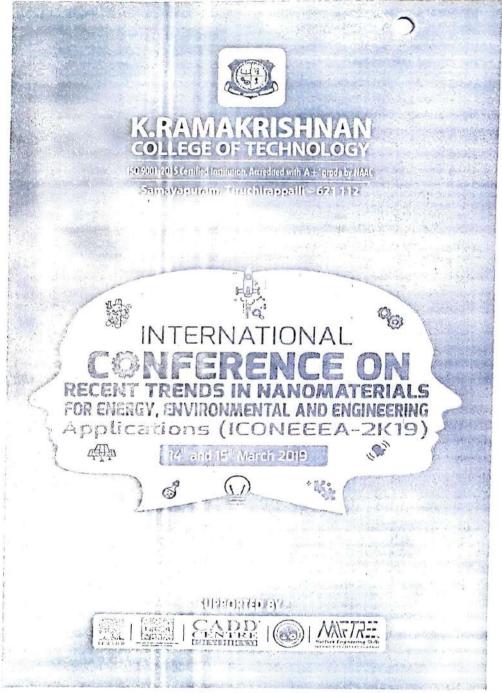
Technology, Kariyamanikam Road, Samayapuram, Trichy, India.





Principal

Page 192 of 329



This is to certify that Dr/Mr/Ms/Mrs ..... S. GOWTHAMAN

SARAMATHAN COLLEGE OF ENGINEERING

has made the presentation of paper entitled ANALYSTS OF INTERFEREN

ASSEMBLY VSING FEA STUDY AND

VALIDATE WITH STRAIN SENSOR

... in the International Conference or

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

(ICONEEEA-2K19), conducted during 14th and 15th of March 2019 at K.Ramakrishnan College of

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.

Coordinator

Principal







This is to certify that Dr/Mr/Ms/Mrs ... P. HART PRASAD

SARANATHAN COLLEGE OF ENGINEERS

has made the presentation of paper entitled ANALYSTS OF

TNTERFER ENCE ASSEMBLY USING FER

STUDY AND VALIDATE WITH STRAIN

SENSOR in the International Conference on

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

(ICONEEEA-2K19), conducted during 14th and 15th of March 2019 at K.Ramakrishnan College or

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.

Coordinator

Principal







This is to certify that Dr/Mr/Ms/Mrs \_\_\_ J. GIOWRI SHONKAR

SARBNOTHON COLLEGE OF ENGINEERING

has made the presentation of paper entitled ANALYSIS OF

INTERFERENCE ASSEMBLY USING FEA

SENSOR in the International Conference on

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

(ICONEEEA-2K19), conducted during 14" and 15" of March 2019 at K.Ramakrishnan College of

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.

coordinator

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Page 195 of 329



## SRM TRP ENGINEERING COLLEGE



Near Samayapuram, Tiruchirappalli - 621 105.

#### International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

#### Certificate

This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

: DESIGN, FABRICATION AND AUTOMATION OF WHEEL CHAIR Title of the Paper

FOR QUADRIPLEGIC PATIENTS USING MEMS SENSOR: REVIEW ARTICLE

Author

SARANATHAN COLLEGE OF ENGINEERING

Organizing Secretary



## SRM TRP ENGINEERING COLLEGE 🕸



Near Samayapuram, Tiruchirappalli - 621 105.

#### International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

#### Certificate

This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper	: DESIGN, FABRICATION AND AUTOMATION OF WHEEL CHAIR FOR
	A Section 1997

BURDELPLEGIC PATIENTS USING MEMS SENSOR: PEVIEWARTICLE

DYINESH BALATIIK Author

SARAMATHAN COLLEGE OF ENGINEERING



## SRM TRP ENGINEERING COLLEGE 🕸



Near Samayapuram, Tiruchirappalli - 621 105.

#### International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

#### Certificate

This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper	: DESIGN, FABRICATION AND AVIOMATION OF WHEELCHAIR FOR
	QUADRIPLEGIC PATIENTS USING MEMS SENSOR: REVIEW ARTICLE
Author	: EDDIE LUCAS.S
	SARANATHAN COLLEGE OF ENGINEERING.



## SRM TRP ENGINEERING COLLEGE 🅸



Near Samayapuram, Tiruchirappalli - 621 105.

#### International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

#### Certificate

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Title of the Paper

: DESIGN, FABRICATION AND AUTOMATION OF WHEEL CHAIR FOR

QUADRIPLEGIC PATIENTS USING MEMS SENSOR REVIEW PRITCLE

Author

HARISH . S

SARAHATHAN COLLEGE OF ENGINEERING



#### N C E E C S 2019

#### SARANATHAN COLLEGE OF ENGINEERING

Panjappur, Tiruchirappalli-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms: Ashwin R / IV yr Mech / SCE has Participated and presented a Paper entitled Design, fabrication and Control of Wheelchair for quadriplegic patients Using MEMS denser in the National level Conference on "Cutting Edge technologies in Electrical.

Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VIJAYALAKSHMI Organising Secretary

Convener, HOD/EEE



Panjappur, Tiruchirappalli-620012

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms. Harish & Wyr Mech & SCE has Participated and presented a Paper entitled Design Fabrication and automation of Wheelchaum of Guadriplegic patients Using Mems Sensor in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.

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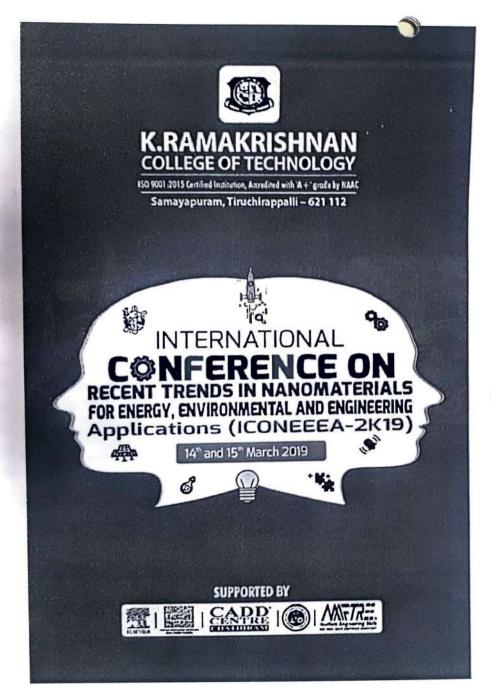
2019

Dr. S.VUAYALAKSHMI
Organising Secretary

DR.C.KRISHNAKUMAR

Page 201 of 329

Convener, HOD/EEE





This is to certify that Dr/Mr/Mc/Mrs \_ S. EDDIE LUCAS \_\_\_\_ of

SARANATHON COLLEGE OF ENGINEERING

has made the presentation of paper entitled DESIGN, FABRICATION

AND AUTOMATION OF WHEEL CHAIR FOR

QUADRIPLEGIC PATIENTS in the International Conference on USING MEMS SENSOR

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

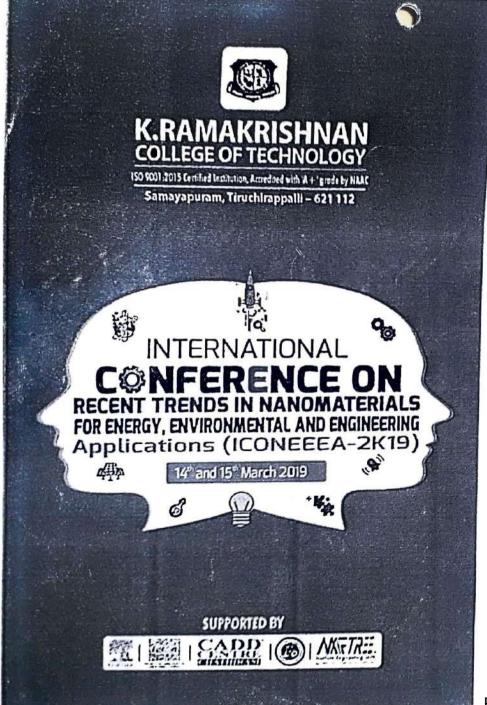
(ICONEEEA-2K19), conducted during 14" and 15" of March 2019 at K.Ramakrishnan College of

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.



5. Wha

Principal





This is to certify that Br/Mr/Ma/Hars S. HARSH. of

SARAMATHAN COLLEGE OF ENGINEERING

has made the presentation of paper entitled DESIGN SEARCATION

AND AUTOMOTION DE WHEELCHAIR EOR

QUADRIPLEGIC POTIENTS in the International Conference on

USING MEMS SENSOR

Recent Trends in Nanomaterials for Energy. Environmental and Engineering Applications

(ICONEEEA-2K19), conducted during 14° and 15° of March 2019 at K.Ramakrishnan College of

Technology, Kariyamanikam Road, Sarnayapuram, Trichy, India.



5. Wha

Principal



# N 2019

### SARANATHAN COLLEGE OF ENGINEERING

Panjappur, Tiruchirappalli-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms. S. Eddie Jucas | ivyr Mech | SCR has

Participated and presented a Paper entitled Design, Fabrication and automation
of Wheelchair for Quadriplegic patients (King Memor)
in the National level Conference on "Cutting Edge technologies in Electrical.

Communication and Soft Computing techniques" (NCCEECS'19) held on
14.03.2019 organized by Department of Electrical and Electronics Engineering,
Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VIJAYALAKSHMI Organising Secretary

Convener, HOD/EEE





This is to certify that Or/Mr/Mrs \_ R. AS HWIN

SARANATHAN COLLEGE OF ENGINEERING

has made the presentation of paper entitled \_DESIGN \_ FABRICATION

AND AUTOMOTION OF WHEEL CHAIR FOR

QUADRIPLEGIC PATIENTS in the International Conference on USING MEMS SENSOR

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

(ICONEEEA-2K19), conducted during 14" and 15" of March 2019 at K. Rarnakrishnan College of

Technology, Kariyamanikam Road, Samayapuram, Trichy, India.



5. Wha

rincipal



Panjappur, Tiruchirappalli-620012

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

2019

This is to certify that Mr./Ms. S. Jawahar / IV yr Mech / SPE. has Participated and presented a Paper entitled Industrial Investigation Analysis and Modelling of heat medication in Low Vaccum fan. in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VIJAYALAKSHMI
Organising Secretary

DR.C.KRISHNAKUMAR
Convener, HOD/EEE



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in the National level Conference on "Cutting Edge technologies in Electrical, Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



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This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper

: FABRICATION AND ANALYSIS OF 3D PRINTED PLA

DENTAN CROWN.

Author

ABHISHEK, R.

SARANATHAN COLLEGE OF ENGINEERING

Coordinator

Organizing Secretary



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Title of the Paper	FABRICATION AND ANALYSIS OF 3D PRINTED PLA DENTAL
	CRONN
Author	: AKSHAY MENON P.V
	SARANATHAN COLLEGE OF ENGINEERING

Coordinator



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Title of the Paper	FABRICATION AND ANALYSIS OF 3D PRINTED PLA DENTAL
	CROWN
Author	: DHIVYADARSHAN S.
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	CROWN
Author	: DHIVYADARSHAN S.
	SARANATHAN COLLEGE OF ENGINEERING.

Prof. S. PALANIYAPPAN
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This is to certify that the following paper has been presented in the International Conference on Innovative Engineering Initiatives (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper

: DESIGN, ANALYSIS AND FABRICATION OF REVERSE

TRIKE: REVIEW ARTICLE

Author

- ARJUN. A. NAIR.

SARANATHAN COLLEGE OF ENGINEERING

Prof. S. PALANIYAPPAN
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Dr. M. PRABHAKAR Organizing Secretary Dr. S. MALIKRAJ



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This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper	: DESIGN ANALYSIS AND FABRICATION OF REVERSE TRIKE
, 2	REVIEW ARTICLE
Author	PRESANNA VENKATESH. G.
	SARANATHAN COLEGE OF ENGINEERING

### DESIGN, ANALYSIS AND FABRICATION OF REVERSE TRIKE: REVIEW ARTICLE

Deepan R1.

UG Student, Department of Mechanical Engineering, Saranathan college of Engineering, India

Arjun A Nair2

<sup>2</sup>UG Student, Department of Mechanical Engineering, Saranathan college of Engineering, India

Prasanna Venkatesh G3

UG Student, Department of Mechanical Engineering, Saranathan college of Engineering, India

Abstract—A trike is a motorized or non-motorized vehicle with three wheels. It can be designed in such a way that two wheels at the front end and single wheel at the rear end or two wheels at the rear end and single wheel at the front. The vehicle with the former design is called a reverse trike. In reverse trikes, stability and weight reduction was observed to be the major problem. The next problem is the use of fossil fuels which will deplete in the future. The model proposed is 1000 W, 48 V BLDC Hub motor driven. The design proposed has been designed using SolidWorks and analyzed using ANSYS Workbeach. The analysis was carried out on chassis, brake and steering systems.

Keywords-Trike, ANSYS. SolidWorks, Electric. Automobile.

### I. INTRODUCTION

A three wheeled vehicle is called a trike. It can be classified into two types based on its configurations which are, the delta design and the tadpole design. A reverse trike is a three wheeled vehicle with two wheels at the front and single wheel at the rear. This is the tadpole design. Generally, the trikes are used for off-roading. These trikes can be converted into passenger curs and can be powered by using an electric motor or an engine. The tadpole design having two wheels at the front provides improved aerodynamics. These vehicles are usually rear wheel driven. The reverse trike is stable in braking turns but overturning of the vehicle in normal turns is its major problem when compared to normal four wheelers. In order to reduce the wind resistance, a tear drop shape is incorporated in which the trike tapers at the back. In future, fossil fuels will exhaust. An alternate fuel is required to tackle this crisis. The proposed reverse trike is powered by BLDC hub motor. Solar panels are incorporated and power is stored in a lithium ion battery. The main objective of the proposed design is to reduce weight and increase the stability of the vehicle.

### II. LITERATURE REVIEW

Jetitey C. Huston and Brian J. Graves [1] Presented lateral and rollover stability relationships governing four wheeled and three wheeled vehicles and compared them For reverse trike lateral stability is ensured if the mass centre is located in front third of the vehicle.

Patrick Fenner [2] proposed that the centre of gravity be mounted as close to the two-wheel axle as possible to maximise rollover stability. The height of the center of gravity be less than half the track measurement and less than the distance to the front axle. If the centre of gravity is in the front half of the vehicle, the vehicle will be stable at all speeds, otherwise further calculation is necessary to determine the speed limit of lateral stability

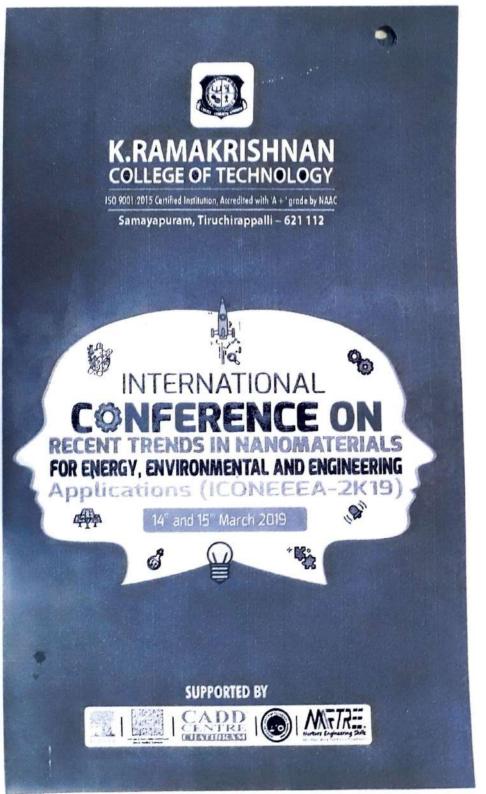
P.P. Dutta, S. Sharma, A. Mahanta, S. Gupta, A. Choudhury, K. Barman, D. Barua, R. Gogoi, A. Das [3] proposed aerodynamic frame and roll-cage design to reduce drag and increase efficiency of the vehicle. Use of dual-spring shock absorbers for both rear wheels and fork suspension for front wheel coupled with swing arm to provide smooth ride even at rough terrains. Unobstructed vision to increase better manoeuvrability. Weather guard cover to protect driver, rider, motor, batteries and other components from various weather conditions to be incorporated.

Priyanka Mohaney, Er. Gauray Soni [4]proposed the use of Aluminium composite panel as a facade material. The material is very cheap and economical. It has high structural rigidity and low weight. Aluminium composite panels can be installed in any shape as it is a flexible material.

K.W.E. Cheng [5] discussed the recent development in electric vehicle. It tirst describes general structure and discusses the energy storage. It then extends to the tuture vehicle components. The paper provides an overview of the recent EV work in the region.

Omkar Diliprao Suryavanshi, Pratimesh Prasad Sathe, Mahesh Ashokrao Tukey [6] proposed that design of custom made rack and pinion yearbox will result in 21% reduction of weight and reduction in cost than OFM. To reduce equivalent stresses edge fillet should be given where stress concentration is more which reduces weight with increase in strength.

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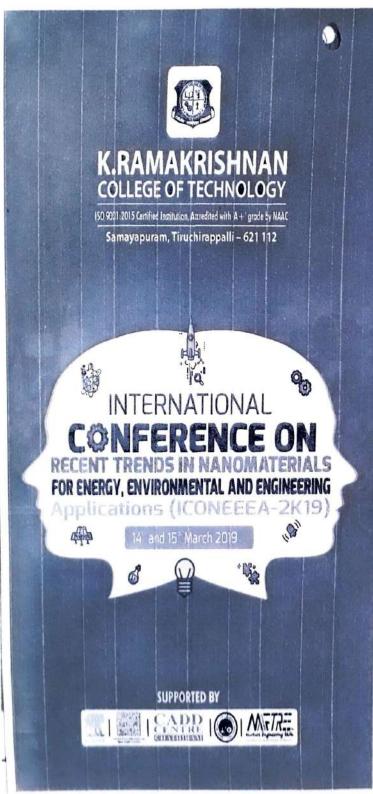


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Technology, Kariyamanikam Road, Samayapuram, Trichy, India.



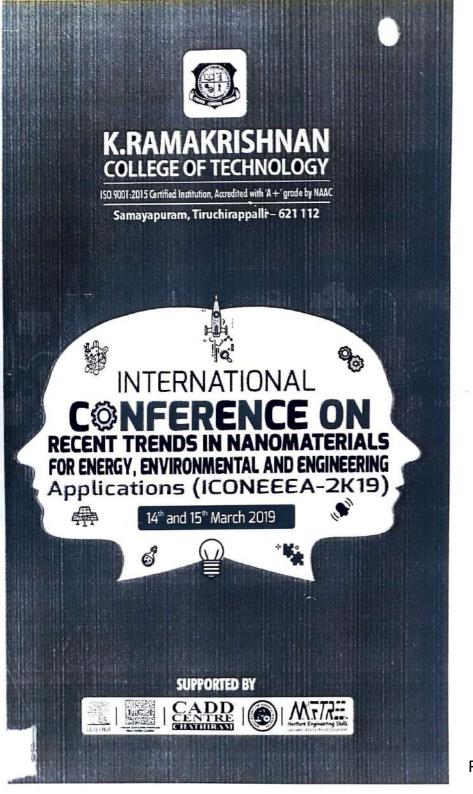
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Title of the Paper Author	: BIOCOMPATIBLE MATERIALS AND PROCESSING TECHNIQUES
	FOR DEVELOPING ARTIFICIAL BONE SCOFF OLDS
	: PDIL AHAMED.H.
	SARANATHAN COLLEGE OF ENGINEERING



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UNIVERSITY COLLEGE OF ENGINEERING - THIRUKKUVALAI
ASSOCIATION OF MECHANICAL ENGINEERS (AME)

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OF ENGINEERING TRICHY has won FIRST PRIZE	
place in PAPER PRESENTATION LOPTIMISATION OF TURNING PROCESS!	••
at the National Level Technical Symposium "MECHENGENIUS 2K19" hel	ld
on 09.03.2019.	

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Title of the Paper	TEMPERATURE MONITORING OF PV MODULES USING TOT
	•••••
Author	: J. ABUBAKKAR SIDDIA
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Prof. S. PALANIYAPPAN
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Title of the Paper	: TEMPERATURE MONITORING DE PL MRDULES USINO IDT
	14 Aa
Author	: M: ASWIN.  SARANATHAN COLLEGE OF ENGLINEERINGS

Prof. S. PALANIYAPPAN

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r. S. MALIKRAJ

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	••••••
Author	: R. Dinakaran
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	······································
Author	:
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### Department of Mechanical Engineering National Conference on

Recent Advances in Mechanical Engineering (RAME - 2019)
BEST PAPER

This is to certify that Mr./ <del>Ms</del> . <u>T. Allwin Sam</u>
with paper title Application OF JUTE PIBRE AND IRO. REINFORCEMENT WITH
EPOXY RECIN IN HELMET, SARANATHAN COLLEGE OF ENGINEERING.
has been awarded best paper in the National Conference on "Recent Advances
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Dr.S.R. Kanman





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Yeinforcement with Spory Resin in Helmet.

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Participated and presented a Paper entitled Design and Analysis of

Chaina Culinday Lin

in the National level Conference on "Cutting Edge technologies in Electrical,

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This is to certify that Mr./Ms. A. Roy Ginana Dhannaj/ivyx Mech/Sce Participated and presented a Paper entitled Design and Analysis of Engine Cylinder fin.

in the National level Conference on "Cutting Edge technologies in Electrical.

Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering.

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Communication and Soft Computing techniques" (NCCEECS'19) held	on
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TRICHY-PUDUKKOTTAL ROAD, GUNDUR, TRICHY-07

DEPARTMENT OF MECHANICAL ENGINEERING

### YANTRA M'19

A NATIONAL LEVEL TECHNICAL SYMPOSIUM

This is to certify that Selvan / Selvi... R. A.B.H.I.S.H.E.K. of SARANATHAN COLLEGE OF ENGINEERING had participated / won ... FIRST PRIZE ... A National Level Technical Symposium YANTRA M'19 in the event of PAPER PRESENTATION ..... organized by Department of Mechanical Engineering, MIET Engineering College, Trichy on 23" Feb 2019.



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This is to certify that Mr./Ms. \_\_\_\_\_\_ Mohamed Azarudæn / Vyr Mah / SCE.

Participated and presented a Paper entitled Tot based remote monitoring filament flow and temperature in a 3D Printer by retrofitting in the National level Conference on "Cutting Edge technologies in Et e Communication and Soft Computing techniques" (NCCEECS'19) 19

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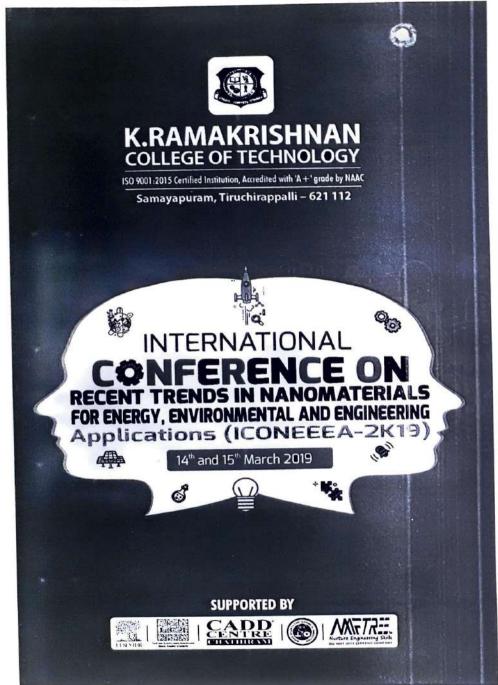


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ALLOY USING DESIGN OF

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(ICONEEEA-2K19), conducted during 14th and 15th of March 2019 at K.Ramakrishnan College of

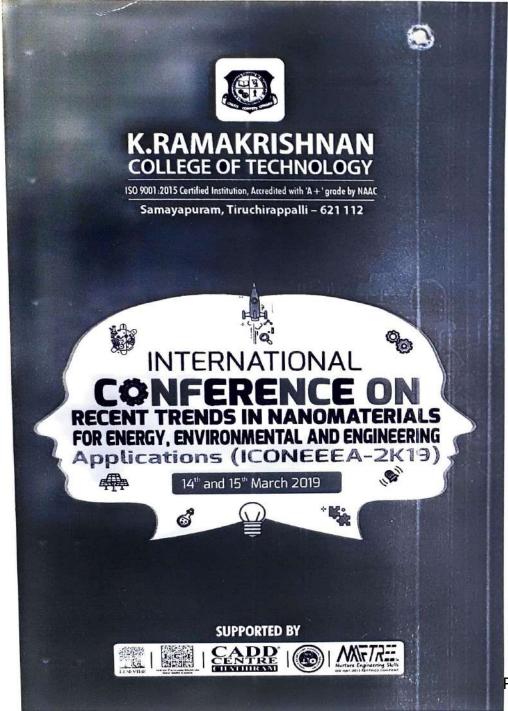
Technology, Kariyamanikam Foad, Samayapuram, Trichy, India.





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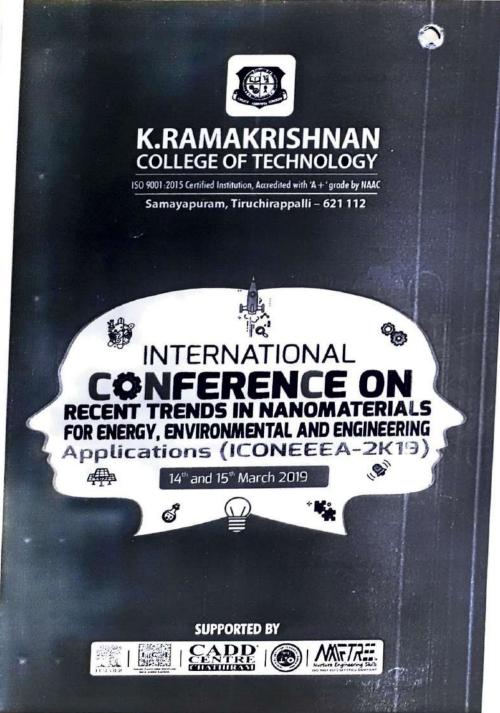


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### Students Journal of Electrical and Electronics Engineering, Issue No. 1, Vol. 5, 2019

Recognition (OCR) and it is displayed with the help of servo motors or push pull solenoids. This reduces the printing cost of Braille coded books as well as the space of storage.

# Autonomous bio-bot for green house cultivation <sup>1</sup>Raghavan.S.S, <sup>2</sup>Vishal.N, <sup>3</sup>Swaminathan.S

<sup>1,2,3</sup>Final year EEE, Saranathan College of Engineering, Trichy-12

### ABSTRACT:

A global competition is pressing farmers on many fronts, mechanized agriculture has become one of the important modern agricultural methods. With the global population is expected to reach more than 8 billion by 2050, the need for agricultural production to be increased double to meet out the demand. With the limited space, the agriculture production has to be increased. This gives pressure to the Government, Private sectors and Farmers to improve the production in a positive manner. Hence all the developed countries come forth to implement robotic platform for agricultural applications such as monitoring, weed removal and pesticide spraying. Introducing robots in agriculture has been started since 1985. In recent decades, technology as a result of latest scientific research have been widely applied in agriculture to improve quality and productivity Though the latest technologies are accepted and implemented, it is noticeable that agriculture is still labor intensive. Present day solutions densely depend upon heavy application of chemicals that are sprayed at defined time intervals making the environment toxic. Studies confirm that spraying shows harmful effect on human labours and consumers. Hence in order to limit application towards site specific, automation has to be implemented for agriculture operations like monitoring, control environment and inspection.

### Strain Analysis of Knuckle Joint Using Internet of Things: Review

### <sup>1</sup>A.Saravanan, <sup>2</sup>A.Vembarasan, <sup>3</sup>S.Pasupathi, <sup>4</sup>M.Vinoth, <sup>5</sup>S.Suryajothi

<sup>1</sup> Asst. Prof/Mechanical, Saranathan College of Engineering, Trichy - 12 <sup>2,3,4,5</sup> Final yearMechanical, Saranathan College of Engineering, Trichy -12

### Abstract

It consists of a system which is comprised of several units that monitors the health of the automobile in a dynamic state as well as static state. The parts of vehicle monitoring system has stolen vehicle recovery Asset tracking, Field service management, Field sales, Trailer tracking, surveillance, Transit tracking, Fuel Monitoring, Distance Calculation. From the above system, we are concentrating in a particular unit which monitors the deflection of the automobile and indicates the suspension or knuckle to be changed according to servicing the automobile.

# Experimental Analysis of using Various Steel Grades of a Ball Pin of an Automobile Ball Joint Assembly 1S. Pradeesh, 2K.B. Vijayendra, 3D. Thamotaran, 4J. Sivasubramanian

<sup>5</sup>K. Thiyagarajan

1,2,3,4,5 Final year Mechanical, Saranathan College of Engineering, Trichy -12

### Abstract:

This study describes the design and analysis of a steering system ball joint using finite element analysis and experimental method. The main load carrying component of a ball joint is ball pin. Thus the manufacturing and designing of ball pins are crucial. The extruded steel rods are forged to the required shape for the ball pin. These ball pins are turned and thread rolled. Raw ball pins have lower yield strength. Ball pins experience two major loads mainly, axial load and radial load. In order to make the ball pin durable, induction hardening is done. The induction hardening hardens the surface of the ball pin and the core remains soft. This is the favourable condition for a ball pin. The induction hardening is a tedious process that is it must be done for an accurate period of time. The main scope of our project to analyse the usage of alternate steel grades in a ball joint so as to make it more reliable, risk free component. We have also trying to eliminate some major manufacturing processes which is difficult and expensive. A comparative study of using afew other steel grades instead of using the existing one will be done.



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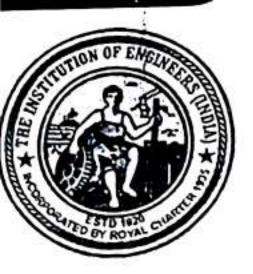
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Author	K. PRAKASH
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Author .	M. MURALIDHARAN
	SAPANATHAN COLLEGE OF ENGINEERING

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Author	S.R. SHUBATHRA BHEVI
	SARANATHAN COLLEGE OF ENGINEERING.



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Title of the Paper	OPTIMIZATION IN FRICTION STIP WELDING : REVIEW
Author	M. AJITHKUMAR
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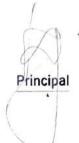


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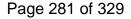
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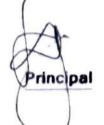


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in the National leve	el Conferen	ce on "Cut	ting Edge t	echnologies	in Electrical,
Communication a	nd Soft C	omputing	techniques"	(NCCEECS'	19) held on
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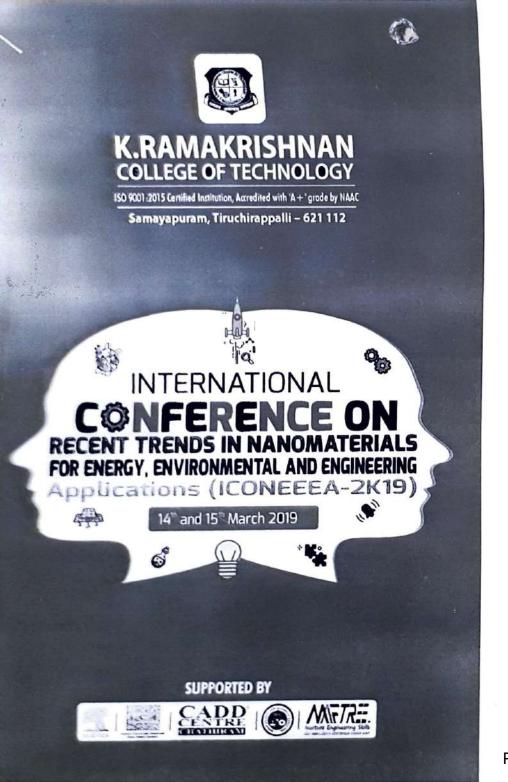
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OF ALUMINIUM COMPOSITES in the International Conference on

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

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A. NISHANTH of This is to certify that <del>Dr/</del>Mr/<del>Ms</del>/<del>Mrs</del> SARANATHAN COLLEGE OF ENGINEERING has made the presentation of paper entitled ... A. SHORT REVIEW ON MECHANICAL PROPERTIES & WEAR BEHAVIOUR OF AWMINIUM COMPOSITES in the International Conference on Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications (ICONEEEA-2K19), conducted during 14th and 15th of March 2019 at K.Ramakrishnan College of Technology, Kariyamanikam Road, Samayapuram, Trichy, India.



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in the National level Conference on "Cutting Edge technologies in Electrical,
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EXPERIMENTAL	INVESTIGATI	ON AN	OPTIMIZA	TION OF	TURNING	PROCESS
PARAMETERS IN .	DIESTEEL USI	ng Desig	IN OF EXPE	ERIMENTS	APPROACH	
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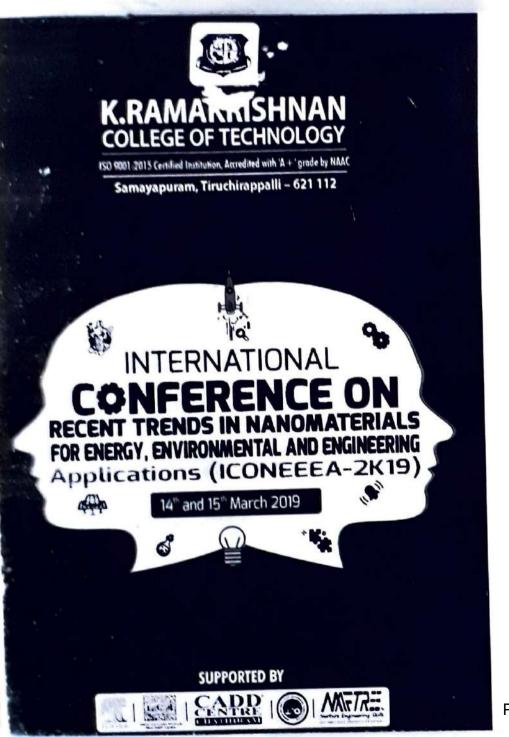
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who se	ecured <b>Third</b> in the	Anna University Zo	nal Tournament	ts for the Year	2018-19, held at
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#### Certificate

This is to certify that the following paper has been presented in the International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper	EXPERIMENTAL INVESTIGATION ON TRIPLE PIPE HEAT
	EXCHANGER
Author	K. DEENADAYALAN
	SARANATHAN COLLEGE OF ENGINEERING

Convener

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CFD ANALYSIS OF COUNTER FLOW ARRANGEMENT IN Title of the Paper

TRIPLE PIPE HEAT EXCHANGER

SINIYAVAN Author

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Title of the Paper	EXPERIMENTAL INVESTIGATION ON TRIPLE PIPE HEAT
	EXCHANGER
Author	S. INIYAYAN
	SARANATHAN COLLEGE OF ENGINEERING





Near Samayapuram, Tiruchirappalli - 621 105.

#### International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

#### Certificate

This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper	CFD ANALYSIS OF COUNTER FLOW APPANGEMENT IN
	TRIPLE PIPE HEAT EXCHANGER
Author	: K. DEENADAYALAN
	SAPANATHAN COLLEGE OF ENGINEERING

Coordinator



Panjappur, Tiruchirappalli-620012

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

This is to certify that Mr./Ms. V. Barkara Tambachiya Natarajan Ivyr Markarhas

Participated and presented a Paper entitled Analysis of Solidification time

On Aluminium (A16063) in Sandarting by encorporating Copper rods

in the National level Conference on "Cutting Edge technologies in Electrical,

Communication and Soft Computing techniques" (NCCEECS'19) held on

14.03.2019 organized by Department of Electrical and Electronics Engineering,

Saranathan College of Engineering, Tiruchirapalli.

2019

Dr. S.VIJAYALAKSHMI
Organising Secretary

DR.C.KRISHNAKUMAR

Convener, HOD/EEE

Dr.D.VALAVAN Principal

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Panjappur, Tiruchirappalli-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

2019

This is to certify that Mr./Ms. Arrivarasan Wyr Meth SCE has Participated and presented a Paper entitled Analysis of Solidification time.

On Assumination (A16063) in Clandcasting by incorporating copper mds.

in the National level Conference on "Cutting Edge technologies in Electrical,

Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering,

Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VIJAYALAKSHMI
Organising Secretary

DR.C.KRISHNAKUMAR

Convener, HOD/EEE

**Dr.D.VALAVAN**Principal

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (NBA Accredited)

#### CERTIFICATE

2019

This is to certify that Mr./Ms. R. Gowtham IV yx Mech | SCE has Participated and presented a Paper entitled Analysis of Solidification time

On Aluminium (Al 6063) in Sandcarting by incorporating copper rode in the National level Conference on "Cutting Edge technologies in Electrical,

Communication and Soft Computing techniques" (NCCEECS'19) held on 14.03.2019 organized by Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Tiruchirapalli.



Dr. S.VIJAYALAKSHMI
Organising Secretary

DR.C.KRISHNAKUMAR

Convener, HOD/EEE

**Dr.D.VALAVAN**Principal

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This is to certify that Dr/Mr/Ms/Ms \_ K . AVIVES & BALDIL of

SPRANATHAN COLLEGE OF ENGINEERING

has made the presentation of paper entitled DESIGN\_FABRICATION

PND RUTOMOTION OF WHEEL CHAIR FOR

QUADRIPLEGIC PATIENTS in the International Conference on USING MEMS SENSOR

Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications

(ICONEEEA-2K19), conducted during 14" and 15" of March 2019 at K.Ramakrishnan College of

Technology, Karlyamanikam Road, Samayapuram, Trichy, India.

Coordinator

S. Who





Near Samayapuram, Tiruchirappalli - 621 105.

#### International Conference on Innovative Engineering Initiatives (ICIEI - 2019)

#### Certificate

This is to certify that the following paper has been presented in the" International Conference on Innovative Engineering Initiatives " (ICIEI - 2019) held during 13th & 14th March 2019.

Title of the Paper	CFD ANALYZE OF FLUID DYNAMIC IN CYCLONE
	SEPERATOR
Author	P. AMIRTHAKUMAR
	SARANATHAN COLLEGE OF ENGINEERING

Coordinator





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Title of the Paper	CFD ANALYZE OF FLUID DYNAMIC IN CYCLONE
	SEPERATOR
Author	P. AMIRTHAKUMAR
	SARANATHAN COLLEGE OF ENGINEERING

Prof. S. PALANIYAPPAN
Coordinator

Dr. M. PRABHAKAR
Organizing Secretary

r. S. MALIKRAJ Convener





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Title of the Paper	CFD ANALYZE OF FLUID DYNAMIC IN CYCLONE
	SEPERATOR
Author	S. AYYAPPAN.
	SARANATHAN COLLEGE OF ENGINEERING

Prof. S. PALANIYAPPAN Coordinator Dr. M. PRABHAKAR Organizing Secretary

Dr. S. MALIKRAJ





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Title of the Paper	CFD ANALYZE OF FLUID DYNAMIC IN CYCLONE
	SEPERATOR
Author	: B. Gokul
	SARANATHAN COLLEGE OF ENGINEERING

Prof. S. PALANIYAPPAN
Coordinator

Dr. M. PRABHAKAR Organizing Secretary

Dr. S. MALIKRAJ Convener





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Title of the Paper	CFD ANALYZE OF FLUID DYNAMIC IN CYCLONE
	SEPERATOR
Author	M. KANNADASAN.
	SARANATHAN COLLEGE OF ENGINEERING

Coordinator

Organizing Secretary

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# **MBA**

