



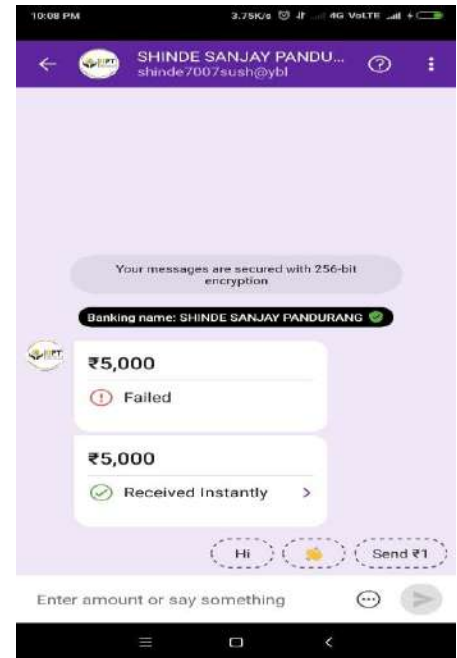
SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**(ACADEMIC YEAR 2020-2021)
COMPETITIONS &
WORKSHOPS**

**Youth zest Virtual Engineering
Project Contest organized by Indian Institute of Projects Technology 2021**



Received Rs.5000/- Cash award

Team Members



YZVEPC

Team members

CAPTAIN
Yogeshwara n. M

TECHNICIAN
Vasantha Kumar . J

MARKET ANALYST
Thiru Moorthi. S

SOFTWARE ADVISOR
RamPrasath. S

TECHNICAL ADVISOR
Ramesh Babu. P

3



I IPT
Indian Institute of
Projects Technology

CERTIFICATE

OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

M. Yogeshwaran

From Electrical Engineering in Saranathan College of Engineering
has qualified for Best Participant Team Grand Finale in 1 st Edition Youthzest Virtual Engineering
Project Contest organised by Indian Institute of Projects Technology 2021

Serial No. 20210421

01.05.2021
DATE


MD & Founder
Mr. Sushant Shinde

QUALITY APPROVED ISO 9001





CERTIFICATE

— OF APPRECIATION —

THIS CERTIFICATE IS PROUDLY PRESENTED TO



J. Vasanthakumar



From Electrical Engineering in Saranathan College of Engineering
has qualified for Best Participant Team Grand Finale in 1st Edition Youthzest Virtual Engineering
Project Contest organised by Indian Institute of Projects Technology 2021

Serial No. 20210420

01.05.2021

DATE

MD & Founder
Mr. Sushant Shinde



CERTIFICATE

— OF APPRECIATION —

THIS CERTIFICATE IS PROUDLY PRESENTED TO



S. Thirumoorthi



From Electrical Engineering in Saranathan College of Engineering
has qualified for Best Participant Team Grand Finale in 1st Edition Youthzest Virtual Engineering
Project Contest organised by Indian Institute of Projects Technology 2021

Serial No. 20210575

01.05.2021

DATE

MD & Founder
Mr. Sushant Shinde

SUVC OVPR
(Online Virtual Presentation Round)

SAUR URJA VEHICLE CHALLENGE 2021
Season 4.0

Congratulations!!
Sharik4.0
of

 **Saranathan**
College of Engineering
(Affiliated to Anna University - Chennai)

Accredited by
 **NBA**
NATIONAL BOARD
OF ACCREDITATION
CSE ECE EEE ICE IT MECH

 **IET**

for clearing **SUVC Season 4 Rulebook Test.**
We wish you good luck for
SUVC Online Virtual Presentation Round.

 /suvcrste  /saur_urja_vehicle_challenge  /suvc

 **R S T E**
Retrangible Society of Technophile Engineers

Secured Third Place

Name of the participants from EEE Dept

P. Ramesh Babu – Faculty Mentor

M.Yogeshwaran - 4th year - 213112

A. Veron lobo - 4th year - 213108

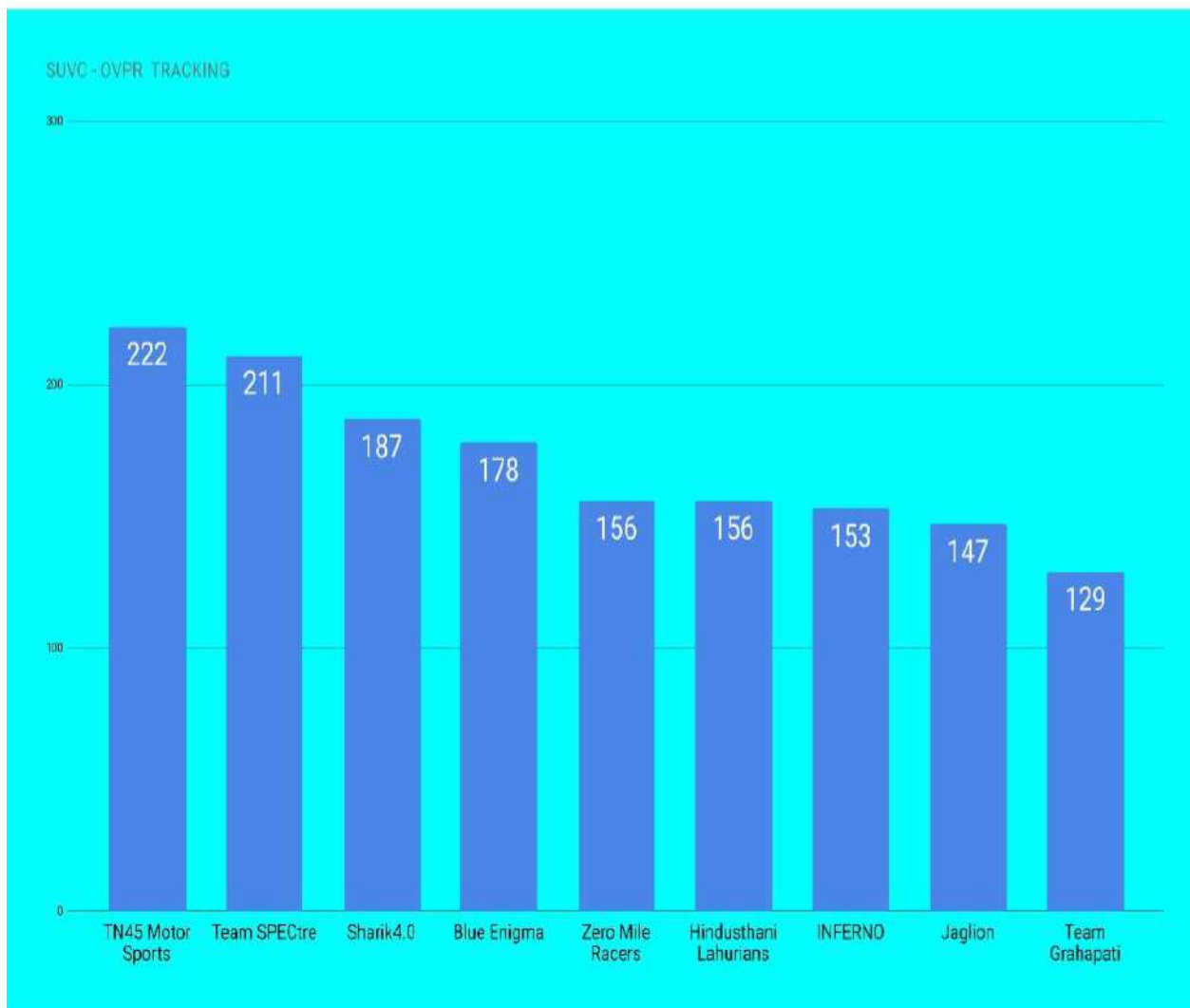
R. Sargurunathan - 4th year - 213086

R. Prajeeth Chander - 4th year - 213066

R. Sudharsan - 4th year - 213098

R. Vasanth - 4th year - 213106

V. Rahul - 3rd year - 223095











Certificate ID: 210220214201



Retrofrange Society of Technophile Engineers

Printed on: 21/02/2021 17:17:47

CERTIFICATE OF PARTICIPATION

presented to

R. Vasanth

SHARUK 410 - SARANATHAN COLLEGE OF ENGINEERING

for participating in national level solar electric vehicle competition
SAUR URJA VEHICLE CHALLENGE 2021 - OVPR
managed under RSTE society


SUVC - HEAD


RSTE - V.P.

Supported by

 SKILL SHARK



SCAN ME

WEBINAR

www.saranathan.ac.in



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE and Affiliated to Anna University, Chennai)

Venkateswara Nagar, Panjappur, Tiruchirappalli - 620012

DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING
(Accredited by NBA)

Organizes an Online Webinar on

Advances in E-Mobility Systems

for II Year EEE Students
as part of National Science Day celebrations

Resource Person

Dr. S. Kumaravel

Associate Professor
Department of EEE
NIT Calicut



01.03.2021
10 A.M

Join us at



wqy-kbyu-mtg



Dr.C.Krishnakumar
HoD / EEE

Dr.D.Valavan
Principal

Shri.S.Ravindran
Secretary



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(Accredited by NBA)

Date: 01 /03/2021

A brief report on an online webinar on “Advances in E-mobility systems”
as part of National Science Day Celebration organized by department of
EEE

It was planned and proposed to conduct online webinar on “**Advances in E-mobility system**” as part of National Science Day Celebration on 01.03.2021 (10.00AM-11.30AM).

The resource person for this online webinar was Dr.S.Kumaravel, working as Associate Professor in the Department of Electrical Engineering, National Institute of Technology Calicut, Kerala since December 2008. His major areas of research are design and development of DC-DC converters, stability enhancement of microgrid, solid state transformers, etc

The main objective of this online webinar is to inculcate the knowledge on the latest advancements and technical challenges in electric vehicles. Totally 93 students of Second year EEE have benefited by attending this online webinar

The resource person delivered the webinar on the evolution of electric vehicle, recent challenges and technological development in the field of E mobility systems. He also added few notes on smart micro grid.

HoD / EEE
H.O.D. (EEE)
Saranathan College of Engg.,
Trichirappalli - 620 012.

Future of STI- Impacts on Education, Skills & Work



Feb 28th 2021
Organized by



EEE Department, Saranathan College of Engineering, Tiruchirappalli

Presented by
Dr. KUMARAVEL SUNDARAMOORTHY
Department of Electrical Engineering
National Institute of Technology Calicut, Kerala

Kumaravel S

90 others


What is the difference between Science and Engineering/Technology?

- **Science** is the body of knowledge that explores the physical and natural world.
- **Engineering** is the application of knowledge in order to design, build and maintain a product or a process that solves a problem and fulfills a need (i.e. a technology).

Kumaravel S

90 others

First Power Plant in India



Sidrapong Hydel Power Station

The first plant consisted of two 65 kW Crompton-Brunton single-phase, 2300 volts and 83.3 hertz alternators coupled with two Gunther's Turbines. India's first Hydro-Electric Power Station with 2 x 65 kW capacity was commissioned on 10 November 1897 by C. C. Stevens, the then Acting Lieutenant Governor of Bengal.

Kumaravel S

93 others

Glimpse of the online webinar on “Advances in E-mobility systems” as part of National Science Day Celebration on 01.03.2021

HoD / EEE
H.O.D. (EEE)
Saranathan College of Engg.,
Trichirappalli - 620 012.

II nd YEAR Branch : EEE SECTION - A

S.No	BatchNo	Regno	Name	S.No	BatchNo	Regno	Name
1	223001	813819105001	AADHITHYA P B	24	223026	813819105024	HARIHARAN. R
2	223002	813819105002	AARTHI. L	25	223027	813819105025	HARIHARAN. S
3	223004	813819105004	ABIRAMI. R	26	223028	813819105026	HARIKARAN . M
4	223006	813819105006	AKASH. T	27	223029	813819105029	HARINI. K
5	223007	813819105007	AMIRTHALAKSHMI. K	28	223030	813819105030	HARINI. K B
6	223008	813819105008	ANNAMALAI. M	29	223031	813819105031	HARISHINI. S
7	223009	813819105009	ARAVIND. K	30	223032	813819105032	HARITHA. J
8	223010	813819105010	AVINAS. R M	31	223033	813819105033	HESHAVARDHINI. N
9	223011	813819105011	AZARUDEEN. J	32	223034	813819105034	HIRUTHICRAM. C
10	223012	813819105012	BALA MANI KANDAN. R	33	223035	813819105035	JANANI. A
11	223013	813819105013	BHAVADHARINI. M	34	223036	813819105036	KALEESWARAN. B
12	223014	813819105014	CAROLIN MARY. X	35	223037	813819105037	KARISHMA. R S
13	223015	813819105015	CHANDRIKA. S	36	223038	813819105038	KARTHIKEYAN. S
14	223016	813819105016	CHANDRU. A	37	223040	813819105040	KHAVYA. K J
15	223017	813819105017	DANUSH PRIYAN. RA	38	223041	813819105041	KIRAUN RAAJ. B
16	223018	813819105018	DEVADHARSHINI. S	39	223042	813819105042	LAKSHMI. S
17	223019	813819105019	EMMANUEL LOUIS. L	40	223043	813819105043	LOGESH. A
18	223020	813819105020	GAYATHIRI. M	41	223045	813819105045	MANIRAJ. V C
19	223021	813819105021	GAYATHRI. S	42	223046	813819105046	MANOGAR. R
20	223022	813819105022	GOKULNATH. R	43	223094	813819105301	LAKSHMI NARASIMMAN. V
21	223023	813819105023	GOWTHAM. R	44	223095	813819105303	RAHUL. V
22	223024	813819105027	HARI KRISHNAN. P	45	223098	813819105302	PANDIESWARI. A
23	223025	813819105028	HARI NARAYANAN. R				


 HoD / EEE
H.O.D. (EEE)
Saranathan College of Engg.,
Trichirapalli - 620 012.

II nd YEAR Branch : EEE SECTION - B

S.No	BatchNo	Regno	Name	S.No	BatchNo	Regno	Name
1	223047	813819105047	MOHAMED IMRAN. J	25	223072	813819105072	SHARMILA. J
2	223048	813819105048	MOHAMED JAVITH. S	26	223073	813819105073	SHIVANI. R
3	223049	813819105051	MOHAN RAJ. R	27	223074	813819105074	SHOBAN NATH. M
4	223050	813819105050	MOHANA PRIYAN. R	28	223075	813819105075	SIVA HARI. S
5	223051	813819105049	MOHANA. S	29	223076	813819105076	SIVA SOORIYA. M
6	223052	813819105052	MUTHU KARUPPAN. A	30	223077	813819105077	SNEHAA. A
7	223053	813819105053	NAVINKKUMAR. K	31	223078	813819105078	SNEKA. A
8	223054	813819105054	NAZEEMA BANU. S	32	223079	813819105079	SOWMIYA MOTHILAL
9	223055	813819105055	NIJITHA. I	33	223080	813819105080	SREEVATHSAN. K
10	223056	813819105056	NIVADITHA. M	34	223081	813819105081	SRINIVASAN. M
11	223057	813819105057	PRAVEENKUMAR. D	35	223082	813819105082	SRIRAMAN. E C
12	223058	813819105058	RAGUL. R	36	223083	813819105083	SUJEITH. S K
13	223059	813819105059	RAHUL. K	37	223084	813819105084	SURESHKUMAR. P
14	223060	813819105060	RAHUL. R	38	223085	813819105085	SWATHY. S M
15	223061	813819105061	RAJESH. A	39	223086	813819105086	VASANTH. R
16	223063	813819105063	RENGANATHAN. R	40	223087	813819105088	VIDHYA DHARANI. V
17	223064	813819105064	RIORDAAN AMALA INFANT. D F S	41	223088	813819105087	VIDHYA. D
18	223065	813819105065	SAI SHAARAN. T S	42	223089	813819105089	VIKTHISWARAN. A
19	223066	813819105066	SAM DANIEL. W	43	223090	813819105090	VIMALESH. K
20	223067	813819105067	SANJEEV. B	44	223091	813819105091	YASHIKA. K
21	223068	813819105068	SANTHOSH KUMAR. S	45	223092	813819105092	YOGESH. N
22	223069	813819105069	SHAMITHA. R	46	223093	813819105093	YOGESHWARAN. M
23	223070	813819105070	SHANMATHI. S	47	223096	813819105304	SURENDRAN. P
24	223071	813819105071	SHARAN. N	48	223097	813819105305	YUKESH KUMAR. T S


 HoD / EEE
H.O.D. (EEE)
 Saranathan College of Engg.,
 Trichirapalli - 620 012.



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE & Affiliated to Anna University)

TIRUCHIRAPPALLI 620 012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to certify that Mr. /Ms. **S.MOHANA** of second year Electrical and Electronics Engineering, Saranathan College of Engineering – Trichy, has attended online webinar titled **Advances in E-Mobility Systems** held on 1st March 2021.

Coordinator

H.O.D



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**(ACADEMIC YEAR 2019-2020)
COMPETITIONS &
WORKSHOPS**

E-BAJA 2020 Event Summary

BAJA SAEINDIA is a National Level Electric All-Terrain Vehicle Design and Manufacturing Competition organised by SAEINDIA and sponsored by Mahindra RISE, where Student teams join hands to make an Electric ATV from Scratch. Since 2007, m-BAJA has grown in popularity and has become a bigger event nationally. It serves as a platform for young engineering talent to showcase their skills and acquire a real life experience while overcoming obstacle and challenges. But by the year 2014, a new initiative was introduced on the counsel of former President of India, APJ Abdul Kalam, in order to promote greener mobility. Thus, e-BAJA was born, where all entries in this category run on rechargeable lithium ion batteries and an all-electric powertrain. Several factors contribute to making a winning buggy. First and foremost the buggy has to meet the strict specification of the rule book. The philosophy hasn't changed since the event's birth back in 2007 – the teams still need to build a simple all-terrain vehicle for recreation purpose that is aesthetically and ergonomically sound while still being a fun and durable machine in the real world conditions.

The evaluation process for the Competition is a twofold process and students have to clear the Virtual Baja preliminary round before they start manufacturing their buggies for the main events. It takes place at Punjab. The teams are judged on six main parameters in the Virtual BAJA event which are – their knowledge of the rule book, the design of the vehicle, the project plan and the design methodology.

Once the team clears the Virtual event, the real challenge begins where the students bring their proposed design to the real world by manufacturing everything from scratch on their own. Applying Divide and Conquer, teams split into their interested Specializations – Chassis, Suspension, Brakes, Power train, Safety and Procurement. All the departments are challenging in their own way: as the buggy must be as durable as it is low in cost and perfect in Design. The Main event takes place at NATRAX, Pithampur, Indore, the Automotive Proving Grounds held by Automotive Research Association of India (ARAI).

From a total of 250 Teams in both categories, nearly 54 were in the Electric Category, competing in the rough Terrain at the National Stage. Only 5 to 6 Colleges from Tamilnadu make it to the main event, out of which, Team Flux, from Saranathan College of Engineering is one able team participating for the consecutive Three Editions of e-BAJA. JARVIS, the All Electric ATV set her foot first at the 2018 edition and is still enduring. All of this is only possible because of the Ever Supporting College Management and the Competent Faculty Advisor, Ms. N.Gayathri, Assistant professor EEE who is mentoring the entire team towards victory for the past three years. The team typically comprises of a mix of both Electrical and Mechanical Students who work hand in hand, to build the automotive beast. The team has learnt a lot: right from the basic social skills to Sound Engineering Practices, the Multidisciplinary feat has successfully completed this year's journey towards success. Thiru.S.Ravindran secretary, Dr.D.Valavan Principal ,Dr.C.Krishnakumar HoD/EEE, Dr.G.Jayaprakash HoD/Mech extend their enormous support to the team for their tireless efforts. They don't give up: with their continuous unequivocal support, the college encourages such Multidisciplinary Activities whole heartedly, which equips the students with one of a kind Unique Experience, in various domains of the Engineering Disciplines.

The team after working for nearly a year, brought JARVIS to life by building her chassis with their own hands and assembling her using components which they made with their own knowledge. The

e-Buggy is now durable for all types of rough terrains and stood proud at the harsh pits of NATRAX Proving Grounds.

“The first virtue in a soldier is endurance of fatigue; courage is only the second virtue.”

JARVIS Endured. Team Flux Endured.



E- BAJA

S.No	Name	Department and Year
1.	B. Antony RozarioGnanaraj	IV/EEE/A
2.	A.E.Manish	IV/EEE/A
3.	V. Aravindh	IV/EEE/A
4.	P. Chandramohan	IV/EEE/A
5.	D. Subramanian	IV/EEE/B
6.	D. Manikandan	IV/EEE/A
7.	J. Vigneshwaran	IV/MECH/B
8.	N. Viswaragavan	IV/MECH/B
9.	N. SanthoshKanna	III/EEE/B
10.	KrishnaBadrinath	III/EEE/A
11.	Z. Mohammed Rifat	III/EEE/A
12.	M. Harish	III/MECH/A
13.	K. Vasanth	III/MECH/B
14.	S. Ajay	III/MECH/A
15.	K.R. Karthick	III/MECH/A
16.	Arjun	III/MECH/A
17.	N.I. Jarin Kishore	II/EEE/A
18.	Mohamed Thoufiq	II/EEE/A

19.	Mohamed Anas	II/EEE/A
20.	Rama .Shylesh	II/EEE/B
21.	M. VijaySai	II/EEE/B
22.	M. Sundar	II/EEE/B
23.	B. Rithish	II/EEE/B
24.	R. MuthamilSelvan	II/Mech/B
25.	S. Giriharan	II/Mech/A

eYantra



MHRD

Government of India

Ministry of Human Resource Development

IIT Bombay envisages the 'e-Yantra' platform to harness the intellectual talent of young India to create utility based robotic applications for usage across variety of applications such as: agriculture, manufacturing, defense, home, city maintenance and services industries.

e-Yantra Ideas Competition (eYIC) 2019 is different in that it seeks to identify and nurture potential entrepreneurs in the e-Yantra Labs that the project has set up throughout the country. Students are invited to submit a proposal to solve a local problem using their e-Yantra lab and after an intense process of selection and vetting, are permitted to build the proposed system using their e-Yantra labs. One of MHRD's flagship projects, e-Yantra has established 280 e-Yantra labs throughout the country over the past three years. It has now been given a three-year extension with a challenge to increase the number to 1,000 labs..

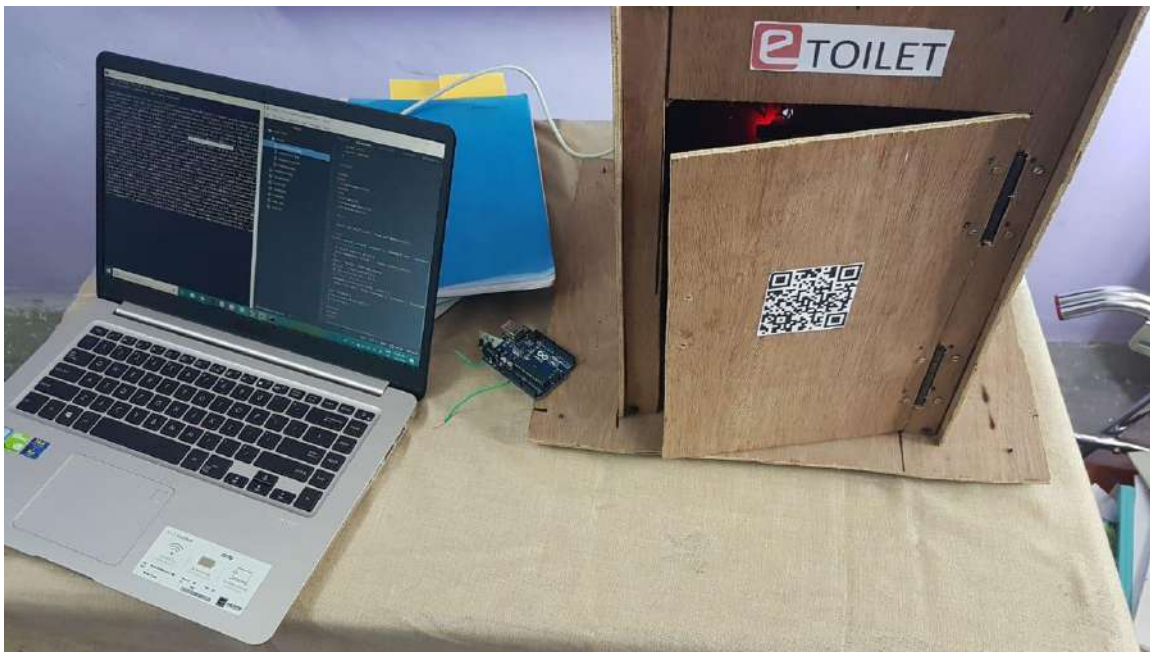
This competition teaches hardcore engineering skills through a scalable competition paradigm. Most importantly, it needs no expense on the part of selected participants – e-Yantra provides the kit, training and guidance and even a travel allowance and boarding/ lodging at IIT Bombay for the duration of the finals at IIT Bombay.

Whereas the competition engages annually with students, e-Yantra has extended its contact with students and teachers by setting up robotics lab in colleges throughout the country. A college invests Rs. 2 lakh in basic equipment and nominates four teachers who are trained by e-Yantra over a period of 6 months.

Now that this IIT-based project has reached critical mass, it seeks to make a major difference to the 'Make in India' initiatives in the country by directing the activities in e-Yantra labs towards local industry. The e-Yantra Symposium is an attempt to reach out to industry, where the team will present a 'report card' of the project and their model for academia-industry engagement. This will be followed

by a panel discussion on how this potent model may best be used for academia-industry engagement.

Since our college has been associated with e-Yantra (eLSI) we have the opportunity of participating in the event. **Our team has done a project on titled A Novel Approach to Eradicate Pre-Existing Detriments in Public Toilets to be Incorporated in Smart Cities – Intelligent Toilets.**



PROTOTYPE MODEL OF SMART TOILET

TEAM DETAILS:

NAME	COLLEGE ID	UG/PG	COURSE/BRANCH	SEMESTER
A.E.MANISH	193052	UG	B.E/EEE	V
R.DILIP	193021	UG	B.E/EEE	V
H.MOHAMED AMEENULLAH	193058	UG	B.E/EEE	V
K.GOWTHAM	193027	UG	B.E/EEE	V

REPORT ON EYIC 2019 CONTEST

- **Project Name** : A Novel Approach to Eradicate Pre-Existing Detriments in Public Toilets to be Incorporated in Smart Cities – Intelligent Toilets.
- **Total No. Of Student Participants** : 4 (EEE III YR)
- **Virtual Round Venue** : Presentation was submitted
- **Final Round Venue & Date** : Dr. GRD College of Arts and Science, Coimbatore
- **Final Round Ranking** : Top 3 in South zone Level
- **Awards & Prizes won** : Won in Regional level and got Rs.5000/- CASH Award along with a Drone kit (PLUTO X)



- **Faculty Mentor :**

Ms.N.GAYATHRI , AP/EEE



Honorarium cheque received by our III Year students A.E.Manish, H.Mohamed Ameenullah, R.Dilip, K.Gowtham and their Project mentor Prof.N.Gayathri, Assistant Professor of EEE Department from our Secretary sir for the achievement in e-Yantra Ideas Competition conducted by IIT Bombay.



SHAASRA SMART CITY CHALLENGE 2019

(S2C2)

June 25, 2015, a highly ambitious project named the 'Smart City Mission', an urban renewal and retrofitting program was taken up by the Government of India with the mission to develop 100 cities across the country making them citizen friendly and sustainable. The idea was to use the Engineering skills and knowledge of the nation to make it more sustainable and habitable.

Ever wondered how could we contribute to this ever-growing phase of development and mark ourself in the golden books of the nation. SO here's our opportunity to create a "TRUE IMPACT" and contribute to the nation building. Shaasra 2019 brings us for the first time the SHAASRA SMART CITY CHALLENGE (S2C2) where we will put our ideas and solutions to solve one of the most crucial problems involved in the building of sustainable and "SMART" cities of India.

Given are the 5 different problem statements involving various aspects of the smart city concept. The task of the participant is to formulate a solution for "AT LEAST ONE" of them and come up with a circuit/model that solves the problem or at least some part of it. Registrations will be accepted based on a short write-up proposed during the registration of the event. The shortlisted teams (based on the quality and feasibility of the proposed solution) was notified and called there at IIT Madras during Shaasra 2019 to present their solution (a circuit or a model) for the problem in front of the eminent judge panel that will involve professors from IIT Madras.

The following are the problem statements*:-

- Air Pollution Detection
- EK KADAM SWACHHATA KE AUR(Smart Garbage Bins)
- SMART ENERGY MANAGEMENT
- SMART PARKING SYSTEM
- Make DUMB street lights "SMART".

Our students from Final EEE dominated the smart city challenge held on January 5th 2019, an ideation and prototype development contest introduced for the first time in Shastra, IIT-M's annual technical fest.

As part of the contest, five different problem statements involving various aspects of the Smart city mission, the central government's urban renewal and retrofitting programme, were given to participants.

Out of the 99 students Team who registered from across the country, 19 were shortlisted by experts from Honeywell, a private software firm, and IIT faculty based on the feasibility, cost effectiveness and project description.

Team from our college, developed an Internet of Things (IoT)-based intelligent drone transportation system. This device was aimed at assisting government and other agencies in transport and traffic management on a real-time basis.

The Contest was sponsored  **Honeywell**
THE POWER OF CONNECTED

And Powered by 
TIMES OF INDIA

Team Details:

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

Mentor : Ms. N. Gayathri, AP/EEE



Prototype model of the Air pollution Monitoring- Drone



Winners of SHAASTRA 2019

Smart city challenges, ways to tackle them dominate ideation contest

TNN | Jan 6, 2019, 06:04 AM IST



CHENNAI: College students from Tamil Nadu dominated the smart city challenge, an ideation and prototype development contest introduced for the first time in Shaastra, IIT-M's annual technical fest. As part of the contest, five different problem statements involving various aspects of the smart city mission, the central government's urban renewal and retrofitting programme, were given to participants.

Of the 99 students who registered from across the country, 19 were shortlisted by experts from Honeywell, a private software firm, and IIT faculty based on the feasibility, cost effectiveness and project description, said A Ajyinka, a student-organiser from IIT.

All the teams presented their ideas and a prototype at Shaastra on Friday and six teams shared the top three positions. Of them, five teams were from Tamil Nadu. IIT (BHU) Varanasi was the only team from another state to win a prize. A team from Trichy shared the first place with them.

The Trichy team, from Saranathan College of Engineering, developed an Internet of Things (IoT)-based intelligent drone transportation system. This device was aimed at assisting government and other agencies in transport and traffic management on a real-time basis, said N Muthu Karuppan, one of the students from the team.

An Article about Our Project was Published in Times of India Newspaper



Honorarium cheque received by our team N. Muthu Karuppan, A.S. Leo Aldrinraj, S. Madhanraj, G. Manoranjan and Project Mentor Prof. N. Gayathri, EEE Department from our Secretary sir for their achievement in SHAASTRA'19 Conducted by IIT Madras.



SARNATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPALLI-620012



TEAM PHOENIX REPORT

Name of Event : National Solar Vehicle Challenge (NSVC) 2019 – 2020
Date of Event : From 28/02/2020 to 03/03/2020
Venue of Event : Visvesvaraya National Institute of Technology, Nagpur
Organizer : Dynamist Motorsports Pvt. Ltd

The **TEAM PHOENIX** (20 students from EEE + 18 students from Mechanical + 2 students from ICE) from our college had registered for NSVC 2019-2020 (National Solar Vehicle Challenge) organised by Dynamist Motorsports Pvt. Ltd. This event focus is on developing a solar powered electric car which can operate in closed campus and then upgrade the same further for commercial purpose.

NSVC OF INDIA aims to stir the minds of young technocrats to meet the expectation of Industrialists and the public with regard to a solar powered electric vehicles. This platform helps in creating an awareness about advancing the sustainable vehicle technology efficiency in the automobile industry.

The Solar powered Electric vehicles were judged in a series of 3 rounds viz.

1. Virtual round (Screening)
2. Technical Inspection (Static Event)
3. Dynamic Event

Totally 31 teams from all over India had registered and participated in the initial virtual round. 12 teams out of 31 were shortlisted for the next round combining Technical Inspection & Dynamic event. This round was held (from 28/02/2020 to 03/03/2020) in Visvesvaraya National Institute of Technology, Nagpur. Event was held for 5 days, our solar car (AVION “The wind Flutterer”) was evaluated under various technical as well as business aspects. The **TEAM PHOENIX 3.0** from our college “fluttered the wind” in this round and secured overall runner up position at this national level event.

We thank our Secretary, Principal and Heads of the Departments for motivating us to perform well in their national level challenge. We extend our heartfelt thanks to our lab technicians for extending their support to manufacture our car successfully.

The following are the awards won by TEAM PHOENIX 3.0

- **Overall runner up** award - a cash prize of Rs.40, 000/-
- **AUTO CROSS WINNER** - a cash prize of Rs.10, 000/-
- **BATTERY ENDURANCE RUNNER UP** - a cash prize of Rs.7, 500/-

Team Captain : M.SAIKIRAN /IV Year/Mech. B

Vice-Captain : A.J.GOKUL NATH/IV year/EEE A

Team Mentors : 1. Mr. S.RAM PRASATH, (AP/ EEE).

2. Ms.R.S.SHIVA RANJANI, (AP /Mech)

TEAM PHOENIX 3.0 MEMBERS LIST 2019-2020



Electrical Mentor : Mr. S.Ram Prasath, (AP/ EEE).

Mechanical Mentor : Ms.R.S.Shiva Ranjani, (AP/MECH)

S.NO	BATCH NO	NAME	YEAR	DEPARTMENT / SECTION
1.	193032	HARIHARAN.K	IV	EEE/A
2.	193026	GOKUL NATH.A.J	IV	EEE/A
3.	193035	INDHU.R	IV	EEE/A
4.	193061	NANDHINI.T	IV	EEE/A
5.	193037	JOICY.J	IV	EEE/A
6.	193045	KOWSALYA.S	IV	EEE/A
7.	193070	PRAGATHEESWARI.G	IV	EEE/B
8.	203004	ABINAYA.L	III	EEE/A
9.	203005	ABINESH.R	III	EEE/A
10.	203079	V. SAKTHI RAJA	III	EEE/B
11.	203070	RAKESH.N	III	EEE/B
12.	203065	PRAHATHISH.B	III	EEE/B
13.	203062	PASHITH.H	III	EEE/B
14.	203086	SENTHIL KUMAR.A	III	EEE/B
15.	203104	SUDHILAYA.M	III	EEE/B
16.	203077	ROSHINI.R	III	EEE/B
17.	213011	ARAVIND.S	II	EEE/A
18.	213004	AKILAN.R	II	EEE/A
19.	213034	HARNI.S.R	II	EEE/A
20.	213055	MONICA.S	II	EEE/A
21.	196015	DHINAKARAN.S.S	IV	MECH/A
22.	196033	KARTHIKEYAN.R	IV	MECH/A
23.	196068	PRETHISH.V	IV	MECH/B
24.	196107	THANVEER ELAHLA	IV	MECH/B
25.	196082	SAIKIRAN.M	IV	MECH/B
26.	196103	SUBASH.A.R	IV	MECH/B
27.	206018	ASHWIN.S.S	III	MECH/A
28.	206122	YASHIK KARTHI.N	III	MECH/B
29.	206064	MUKUL.V	III	MECH/B
30.	206080	RAVI RAGHUL S.A	III	MECH/B
31.	206070	PRANAVAN.S	III	MECH/B
32.	206151	THARUN PRASAD T.M	III	MECH/B
33.	206150	THILEEBAN RAJA.H	III	MECH/B
34.	206137	SUNDARARAMALINGAM.T	III	MECH/B
35.	206143	KARTHIKAYEN.R	III	MECH/B
36.	216001	AADHIL AHMED.R	II	MECH/A
37.	216021	ARUN PRASAD V	II	MECH/A
38.	216010	AJAY PRIYAKAR.M	II	MECH/A
39.	197025	RUKMANI	IV	ICE
40.	197021	HEMALATHA	IV	ICE

PHOTO GALLERY:



AVION "The Wind Flutterer" Gearing up for the Autocross run



Prize winning moment for our racer Mr.H.Thileeaban Raj & captain Mr.M.Sai Kiran securing winner position in the "Autocross run"



TEAM PHOENIX 3.0 securing the Runner-up position in the "Battery Endurance Event"



The overall Runner-up trophy of NSVC 2019-2020

with

“AVION- THE WIND FLUTTERER”

SAN-Sadhan Hackathon 2019

SAN-Sadhan Hackathon 2019 organized by **The Department of Drinking Water & Sanitation, Ministry of Jal Shakti, The Department of Empowerment of Persons with Disability (Divyangjan), Ministry of Social Justice and Empowerment in association with Atal Innovation Mission, NITI Aayog, Bill & Melinda Gates Foundation, and 91springboard!**The hackathon held on 14th and 15th September 2019 at 91springboard,NH8-Udyog Vihar, Gurugram.

About the Hackathon

To enhance sensitivity and develop an ecosystem for creating a barrier free environment, the Department of Empowerment of Persons with Disabilities (DEPwD) had also launched the 'Accessible India Campaign'.

Development of accessible toilets was driven in association with the Ministry of Jal Shakti. Now, with the growing participation of PwDs in routine jobs, it has become even more crucial that appropriately accessible, easy to use, hygienic and affordable toilets and sanitary services are made available. This calls for innovation in the sanitation paradigm which would be driven by accessibility, affordability and scalability.

The Department of Empowerment of Persons with Disabilities (Divyangjan) and Ministry of Jal Shakti in association with Atal Innovation Mission, Niti Aayog, Bill & Melinda Gates Foundation and 91springboard present the SAN-Sadhan Hackathon - a nationwide initiative to bring out Early Stage Startups, Student Innovators, Technology Enthusiasts, Academicians and Industry Experts from every corner of the country to present solutions that address various issues in four core focus areas.

About DEPwD

The Department of Empowerment of Persons with Disabilities (DEPwD) acts as a Nodal Agency for matters pertaining to disability and Persons with Disabilities including affecting closer coordination among different stakeholders: related Central Ministries, State/UT Governments, NGOs etc, in matters pertaining to disability.

To build an inclusive society in which equal opportunities are provided for the growth and development of Persons with Disabilities so that they can lead productive, safe and dignified lives.

To empower Persons with Disabilities, through various Acts/Institutions/Organizations and Schemes for rehabilitation and to create an enabling environment that provides such persons with equal opportunities, protection of their rights and enables them to participate as independent and productive members of society.

About Ministry of Jal Shakti

The Ministry of Jal Shakti was recently formed in May 2019 with the merger of the Ministry of Water Resources, River Development & Ganga Rejuvenation and Ministry of Drinking Water and Sanitation. This Ministry is the driving force behind some of the most effective initiatives in recent times such as 'Jal Shakti Abhiyan' and 'Ganga Action Plan' among others.

CHALLENGES

Innovative ideas and solutions were invited for composite and affordable solutions for Accessible Toilets. The solutions were to be built along the lines of affordability, compactness, flexibility of use & design and scalability to suit variable area requirements. Demands of different disabilities, geographies, age groups, genders and cultures have to be kept in mind. Specifically, issues of wheelchair users, amputees, visually impaired and conditionally disabled (person with fracture, pregnant women, lactating mothers, elderlies etc.) need to be addressed.

CATEGORIES

Solutions could either be along the lines of specific products (such as assistive devices, IT innovations etc.) or allied infrastructure (such as approach mechanism, entry/exits, fitments and control mechanisms etc) and could be developed for any one of the following 4 categories:

- Rural individual use toilet
- Rural community use toilet
- Urban individual use toilet
- Urban community use toilet

CATEGORIES OF PARTICIPANTS:

1. Startups / Early stage companies

Showcase our ideas and work with top domain experts from within the Ministry to build on your solutions. Get an opportunity to pitch to the Department of Empowerment of Persons with Disabilities, Ministry of Jal Shakti and other major Stakeholders in the ecosystem. Go from startup to scale! The Department of Empowerment of Persons with Disabilities and Ministry of Jal Shakti may partner with the winning team in developing your solution in order to create a joint go-to-market.

2. Professionals & Academicians

Showcase our idea, validate its applicability against real outcomes and convert it into a market-ready product. This is an opportunity for Industry Experts with ideas and execution plans & Technology Enthusiasts who have disruptive solutions for the sector to pitch to the Department

Department of Electrical and Electronics
Saranathan college of Engineering
of Empowerment of Persons with Disabilities, Ministry of Jal Shakti and other major
Stakeholders in the ecosystem

3.Student Innovators

Showcase our knowledge and skills to domain experts from within the Ministry.
Make our resume stand out with this once-in-a-lifetime experience.



Fig.1.prototype Model



Fig.2 Our team presenting the project to the Head, Ministry of JAL SHAKTI.



Fig. 3 Team photo

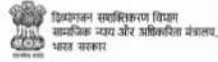
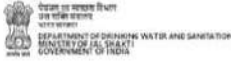
Our students developed a system or Approach to Eradicate Pre-Existing Detriments in Public Toilets to Be Incorporated with Smart Cities especially for the disabled person.

OUR ACHIEVEMENTS:

- **Cleared The Regional Level(South zone).**
- **One of The 17 National Finalist Teams (Includes Startup/Academicians/Students).**
- **One of The Four National Student Teams.**
- **Two companies(Eram Scientific and Smartloo platform) and also Ministry of sanitation have initiated for the Scaling and conversion into a startup products of our Proposed system.**

S.No	Team Members	Yr/Dept
1.	A.E. MANISH	Final EEE
2.	R. DILIP	
3.	H. MOHAMED AMEENULLAH	
4.	B. ANTONY ROZARIO GNANARAJ	
Mentor: Ms.N.Gayathri AP/EEE		

Department of Electrical and Electronics
Saranathan college of Engineering



SAN-Sadhan Hackathon: List of Selected Applicants

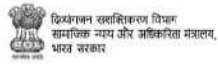
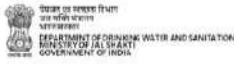
We are very happy and excited to release the list of finalists of the SAN- Sadhan Hackathon 2019. Please find the list below:

S.No.	Name of the Team	Name	Name of proposed product/technology
1	ARCATRON MOBILITY	DEWAJ BARUAH	Frido- Break Free - A unique solution for toilet accessibility issues
2	Clinzo	Neel Kamal Pandit	Clinzo
3	Divyang Innovation	Sayar Singh Choudhary	Toilet Accessories to transform Indian Style Public toilet to divyang friendly toilet
4	Elexir	Mahammad Rafi	Smart Toilets for Divyang
5	Emitrr	Pulkit Gambhir	Urinal spotting with Voice Technology for Visually impaired
6	emPoWereD	Rudhir Mehra	Project emPoWereD
7	Eram Scientific Solutions	Bincy Baby	Accessible public eToilet
8	Fourteen	Dinesh Jangid	Transfer Stool
9	Habitat.CO.IN	Shreyasi Neogi	The Squeeze-able Commode
10	Loop It	Sazal Malhotra	Loop It
11	Majjins	Harsh Umang	Urban Community Divyang Accessible Toilets
12	RaVikas	RAVI SENJI	SANIWASH-Touch free Ablution assist
13	Samarthya	Aditya gupta	Samarthya
14	Sandeep Sankat and Team	SANDEEP SANKAT	Individual Urban toilet
15	Sankalp	Muralidhara M	SEAT(Sensing and Auto Trigger)
16	Sanotion Private Limited	Satyajit Mittal	SquatEase

Supported By:



Department of Electrical and Electronics
Saranathan college of Engineering



BILL & MELINDA
GATES foundation



S.No.	Name of the Team	Name	Name of proposed product/technology
17	Saral	Sharad Yadav	Zero-D Green Toilet/Zero-Discharge Green Toilet
18	SMART BIO TOILET CHAIR	Jay singh Narwariya	SMART BIO TOILET CHAIR
19	Team Insight	Manish A E	Intelligent Divyang Toilets
20	We-Fix	Kriti Aggarwal	PROTOTYPE- Inclusive, Progressive and Accessible design for Bhadra Plaza, Old Ahmedabad.
21	Wide Need Private Limited	Siddhant Satish Tawarawala	Peeschute- Your Handy Toilet

Note: Only the selected participants will receive an email with further instructions.

Supported By:



SARANATHAN COLLEGE OF ENGINEERING

SAUR URJA VEHICLE CHALLENGE (SUVC) 2019-2020

TEAM SHARIK 3.0 REPORT

A group of enthusiastic students (26 from EEE + 13 students from Mechanical) from our college had registered for **SUVC 2019-2020 (Saur Urja Vehicle Challenge)** organized by RSTE (Refrangible Society of Technophile Engineers) - a govt. registered society under Act 1973, Section 44 and run by Automobile Engineers from B.S.F. Institute, Bangalore .

The theme of the contest is to design a single/multi seater, light weight, efficient solar vehicle with 3 or 4 pneumatic tyres. RSTE highly appreciates feedback of society members as well as event participants and is willing to extend every possible help required. Its purpose is to convert innovative ideas of individuals into sustainable real solutions through engineering innovation. RSTE Society also provides sponsorship to teams who are participating in the Creative Product Exhibition, Motorsport Events or any such event.

India's Largest Solar Car Event

"Delhi air pollution: Air quality remains severe, schools closed"

Solar cars are the products of modern innovation driven by concern for the environment. Solar panels are a clean, renewable energy source. They are an alternative way of generating energy while not polluting

delhi air quality index figure that is 569 which is hazardous

CHALLENGE 2020

100+ AWARDS

REGISTER NOW

CONTACT US:
Technical Queries : +91 -8770201773 Event Registration Queries: +91 9340809235
www.facebook.com/suvc_rste visit us: suvc_rste.com www.youtube.com/suvc_rste

The vehicles are judged in a series of 3 rounds viz.

1. Virtual round
2. Technical Inspection (Static Event)
3. Dynamic Event

Out of the 33 teams that registered, 15 teams were short listed after the first round. The second round, comprising of the dynamic event & Technical inspection combined together, was held between 04/03/2020 & 09/03/2020 at Hindustan College of Engineering and Technology in Coimbatore. Out of the shortlisted, 15 teams from different states participated in the Dynamic event. Our college team SHARIK 3.0 (39 students) excelled in this event and secured **Overall runner-up** position at the National Level

We thank our Secretary, Principal and Heads of the Department for motivating us to perform well in national level challenge. No words would adequately sum up the team's gratitude to the untiring contribution of the various non-teaching staff to the success of the team

**The following are the awards won with cash prize of Rs. 64,000/- by
TEAM SHARIK 3.0**

1. Overall runner up award with a cash prize of Rs.50,000/-
2. Best steering control award winner with a cash prize of Rs.5,000/-
3. Best suspension and traction award winner with a cash prize of Rs.5,000/-
4. Best Innovation award winner with a cash prize of Rs.4,000/-
5. Team spirit Trophy
6. Guru Dhronacharya Trophy (Mentor award)

Team Captain: K.Cherarajan /IV Year/Mech. A

Vice Captain: L.Ajay /IV year/EEE A

Team Mentors: 1.Mr. P.Ramesh Babu, (AP/ EEE).

2. Mr. P.Vigneshwar, (AP /Mech)



TEAM SHARIK 3.0 MEMBERS LIST 2019-2020

Electrical Mentor : Mr.P.Ramesh Babu (AP/EEE)

Mechanical Mentor: Mr.P.Vigneshwar (AP/MECH)

S.No	Name	Dept/sec	Year	Batch No:
1	CHERARAJAN K (Captain)	MECH/A	IV	196012
2	AJAY L (Vice- Captain)	EEE/A	IV	193003
3	GANESHKUMAR V	EEE/A	IV	193025
4	BENSENSURAJ M	MECH/A	IV	196011
5	MATHAVAN R S	MECH/A	IV	196047
6	BENHUR NEWTON ROY T	MECH/A	IV	196010
7	ASHWIN S	MECH/A	III	206017
8	MOHAMMED AJMAL M	MECH/A	III	206060
9	SIBI PRAGADEESH A	MECH/B	II	216099
10	MOHAMMED ASKAR S	MECH/B	II	216069
11	MANIKANDAN M	MECH/B	II	216066
12	VIGNESH K R	MECH/B	II	216117
13	VIMALRAJ M	MECH/B	II	216118
14	PANDIYAN C	MECH/B	II	216079
15	PRAKASH P	MECH/B	II	216082
16	SHARVIN J	EEE/B	IV	193089
17	MOHAMED NASRULLAH N	EEE/A	IV	193056
18	SHABASH KHAN H	EEE/B	IV	193087
19	MANIKANDAN R	EEE/B	IV	193132
20	SABARISH B	EEE/B	III	203078
21	UDAY SIMHA R	EEE/B	III	203111
22	SANKARI S	EEE/B	III	203082
23	KEERTHIGA P	EEE/B	III	203124
24	SUDHARSAN R	EEE/B	II	213098
25	PRAJEETH CHANDER R	EEE/B	II	213066
26	RAJALINGAM G	EEE/B	II	213075
27	VIGNESH K	EEE/B	II	213109
28	YOGESHWARAN M	EEE/B	II	213112
29	VASANTHAKUMAR J	EEE/B	II	213107
30	VERON LOBO A	EEE/B	II	213108
31	VAIRAVAN S	EEE/B	II	213104
32	THIRUMOORTHI S	EEE/B	II	213102
33	RAHUL S	EEE/B	II	213074
34	VASANTH R	EEE/B	II	213106
35	RAHUL A	EEE/B	II	213073
36	SHEIK MOHAMED I	EEE/B	II	213093
37	GOKUL S	EEE/B	II	213115
38	DIVYA SRI M	EEE/A	II	213022
39	ARTHI S	EEE/A	II	213022

Photo gallery





India Innovation Challenge Design Contest IICDC 2019

The following teams are selected for the final round of ‘India Innovation Challenge Design Contest IICDC 2019 conducted by DST & Texas Instruments’. Each team is sponsored with Texas Instruments (TI) tools worth USD 200 (Approximately 1,36,800 INR cumulatively) for the successful completion of the project.

The following are the details

S.No	Mentor	Name of the students	Project Title
1	Dr.C.Krishanakumar	S.Ram Prasath R.Indhu S.Kowsalya J.Devi sri S.Madhumita R.Dharshini G Subalakshmi B. Ajitha	A Low Cost Converter Based PV Emulator for Academic Purpose Using MSP430 Microcontroller
2	Ms. N.Gayathri	Sundar M Sargurunathan R Sudhersan R Anandh vignesh R Ram prasath S	IOT based Water Quality Monitoring System
3	Mr. S.Sivakumar	Sharvin. J Pradeep. A Rajendra prasad.P Rishikesh kumar.R	LIDAR based navigation of Automated Guided Vehicle (AGV) for production industry.
4	Mr. P. Ramesh Babu	Abinashkumar V Gokul E. Mohamed Irfan N. Chandru N. Manojkumar P. Abdul jabbar M. Kesava Raj M.	Delfino Processor Based Low Cost Wireless Pc Digital Storage Oscilloscope
5	Mr. P. Ramesh Babu	Deva Priya.K Abarna.R Ishwarya.S Anjuka.G	Design And Implementation Of Digital Power Factor Correction Control Of High Power Led Focus Light Driver Using C2000 Tms320f28027

		Madhushree.S AksaNissi.K	
6	Mr. P. Ramesh Babu	Epshiba Beaula.S Abarna.R Ishwarya.S Anjuka.G Madhushree.S Aksanissi.K	Smart Embedded Controller Based Wind Emulator for R&D and Academic Laboratories
7	Mr. P. Ramesh Babu	Karunakaran .G Jose Merril .S Mohammed Rifat .Z Chandra Kishore .M Atchaya .B Divya Prabha. T Dhivya Bharathi .U Janani .M	IOT Based Wireless Energy Meter Using CC3000 Wi-Fi Module
8	Mr. P. Ramesh Babu	N. Suganya K. Subhiksha R. Swetha S. Therasa Mettilda R. Anand T. Gurucharan	A low cost digital control strategy for four quadrant operation of PMDC motor using c2000 f28027 MCU for academic purpose.
9	Mr. P. Ramesh Babu	Yogeshwaran .M Senthil kumar. R Vasanthakumar. J Sheik Mohamed .I Roche Rohan .R Thirumoorthi .S	Safety And Cop Drone



SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Cordially Invite You
for the
Two day Workshop
“MULTIFUNCTIONAL DIGITAL MEASURING
INSTRUMENTS”

Date: 04-09-2019 & 05-09-2019

Venue: CONTROL & INSTRUMENTATION Laboratory

Coordinators:

Dr.S.Vijayalakshmi, ASP/EEE
Ms.R.S.Priyaa Dharshini, AP/EEE
Ms.A.R.Danila Shirly, AP/EEE

HOD/EEE
Dr.C.Krishnakumar

Principal
Dr.D.Valavan

Secretary
Shri.S.Ravindran



SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
(Accredited by NBA)

26.08.2019

CIRCULAR

Department of EEE is proposed to conduct two days **workshop** titled “**Digital Measuring Instruments**” from **04.09.2019 to 05.09.2019** for **II year EEE** students. Registration fee is **Rs.120/-** per student which includes certificate, manual and refreshment. Interested candidate can enroll their names to **Ms.R.S.Priyaa Dharshini , AP/EEE** on or before **28.08.2019**.


HoD/EEE



EED
EEE

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
TIRUCHIRAPALLI - 620 012.

Date : 17.08.2019

Ref No : SCE/EEE/Workshop/2019-2020/01

To
The Principal
Saranathan College of Engineering
Trichy - 12

Through HOD/EEE,

Respected Sir,

Sub: Requisition for approval to conduct two day workshop - reg.

To enhance the technical knowledge in core area for our second year EEE students, we have proposed to conduct two day workshop titled "Multi-functional Digital Measuring Instruments" on 5th & 6th Sep 2019. Workshop registration fee is Rs. 120/-. The registration fee includes manual, certificate, and refreshments. Hereby we request you to kindly approve this workshop. The tentative budget is mentioned below for your perusal.

Tentative Budget

1. Certificate	- Rs. 20/-
2. Refreshment	- Rs. 50/-
3. Manual	- Rs. 50/-

Total	- Rs. 120/-
Registration amount from the Student	- Rs. 120/-

(Rupees one hundred and twenty only)

Thanking you,

Yours faithfully,


(Dr.S. Vijayalakshmi)

copy of 17/8/19

*Respected Sir,
1. 40 students expected.
2. 3 EEE staff to handle.
3. Venue 1/2 day through
1/2 day lab.
4. Approval may be granted.*

*Approved
12/8/19*

*40
PV. Vijayalakshmi
Principal
17/8/19*

*S. R. ...
17/8/19*



Saranathan College of Engineering

Department of Electrical & Electronics Engineering

MULTIFUNCTIONAL DIGITAL MEASURING INSTRUMENTS WORKOPSH

Date: 04.09.2019 & 05.09.2019

Venue : Control & Instrumentation Lab

Sl.NO	Batch No	Name	Year/Sec	04.09.2019		05.09.2019	
				FN	AN	FN	AN
1	213118	S Rohith	II/A	S Rohith	S Rohith	S Rohith	S Rohith
2	213114	S B Mithun Raja		W. Mithun	W. Mithun	W. Mithun	W. Mithun
3	213043	S Kaushik		Kaushik	Kaushik	Kaushik	Kaushik
4	213026	R Giridharan				R. Giridharan	R. Giridharan
5	213009	R Anandh		R. Anandh	R. Anandh	R. Anandh	R. Anandh
6	213046	T V Kirthiga Reshmi	II/A	K. Reshmi	K. Reshmi	K. Reshmi	K. Reshmi
7	213047	S Lavanya		B. Lavanya	B. Lavanya	B. Lavanya	B. Lavanya
8	213034	S R Harni		H. Harni	H. Harni	H. Harni	H. Harni
9	213055	S Monica		Monica	Monica	Monica	Monica
10	213022	M Divyasri		M. Divyasri	M. Divyasri	M. Divyasri	M. Divyasri
11	213005	A R Akshara Shree	II/A	A. Akshara	A. Akshara	A. Akshara	A. Akshara
12	213007	P Amirthaa		P. Amirthaa	P. Amirthaa	P. Amirthaa	P. Amirthaa
13	213018	V A Bharathi Priya		B. Bharathi	B. Bharathi	B. Bharathi	B. Bharathi
14	213019	S Deepthi		Deepthi	Deepthi	Deepthi	Deepthi
15	213036	S V Janani		S. V. Janani	S. V. Janani	S. V. Janani	S. V. Janani
16	213101	M Thendral	II/B	M. Thendral	M. Thendral	M. Thendral	M. Thendral
17	213097	K Subiksha		K. Subiksha	K. Subiksha	K. Subiksha	K. Subiksha
18	213063	S Pankaj Bharathi		S. Pankaj	S. Pankaj	S. Pankaj	S. Pankaj
19	213058	M A J Nancy De Johnpaul		N. Nancy	N. Nancy	N. Nancy	N. Nancy
20	213065	M Poojah		M. Poojah	M. Poojah	M. Poojah	M. Poojah
21	213075	G Rajalingam	II/B	G. Rajalingam	G. Rajalingam	G. Rajalingam	G. Rajalingam
22	213088	R Satish Kumar		R. Satish	R. Satish	R. Satish	R. Satish
23	213106	R Vasanth		R. Vasanth	R. Vasanth	R. Vasanth	R. Vasanth
24	213090	R Senthil Kumar		R. Senthil	R. Senthil	R. Senthil	R. Senthil
25	213102	S Thirumoorthi		S. Thirumoorthi	S. Thirumoorthi	S. Thirumoorthi	S. Thirumoorthi
26	213112	M Yogeshwaran	II/B	M. Yogesh	M. Yogesh	M. Yogesh	M. Yogesh
27	213107	J Vasantha Kumar		J. Vasantha	J. Vasantha	J. Vasantha	J. Vasantha
28	213100	M Sundar		M. Sundar	M. Sundar	M. Sundar	M. Sundar
29	213108	A Veron Lobo		A. Veron	A. Veron	A. Veron	A. Veron
30	213109	K Vignesh		K. Vignesh	K. Vignesh	K. Vignesh	K. Vignesh



SARANATHAN COLLEGE OF ENGINEERING

TRICHY-12

RESEARCH CELL-EEE


Department of Electrical and Electronics Engineering


Certificate

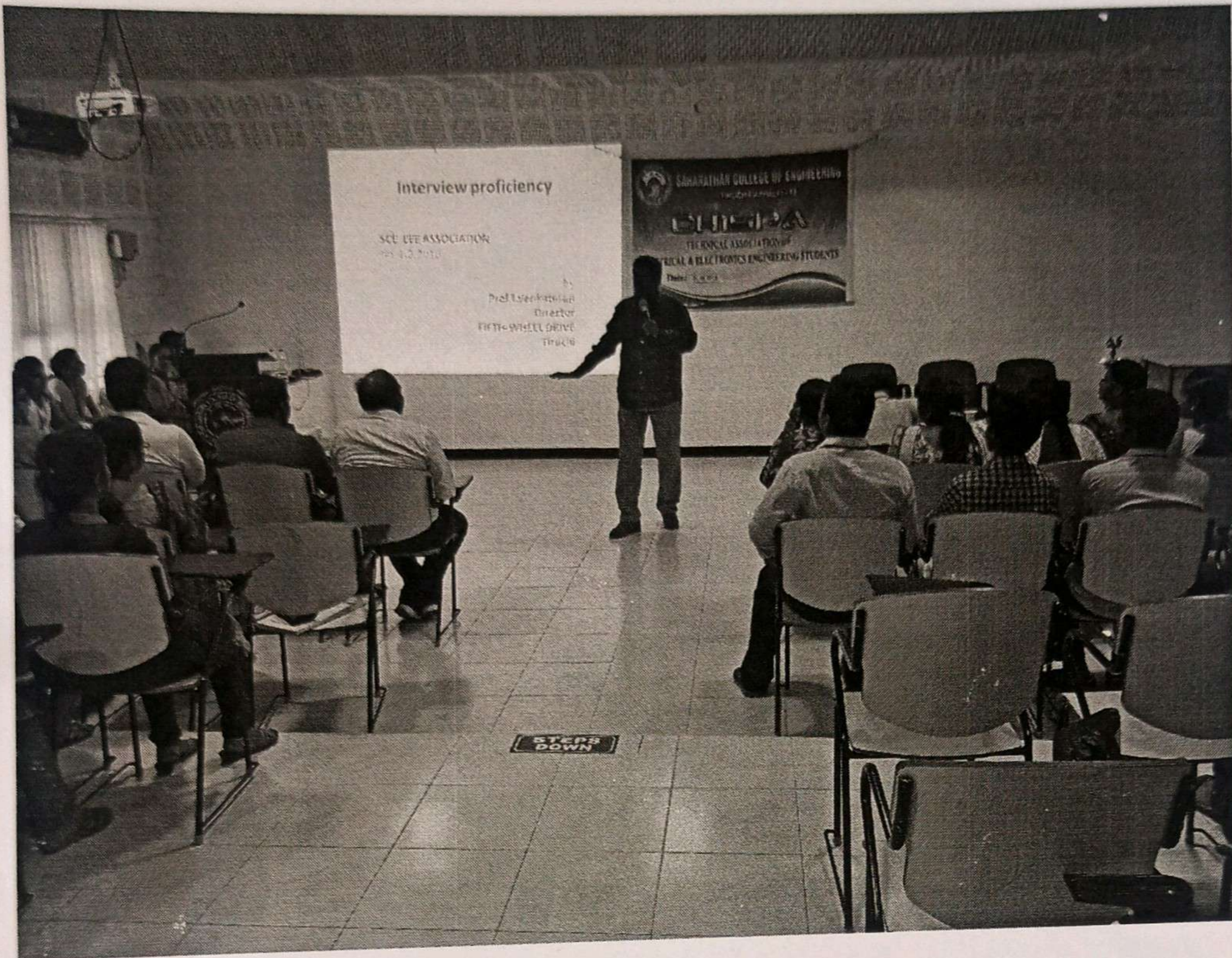
This is to certify that

has Participated in the 2 day Workshop on
MULTIFUNCTIONAL DIGITAL MEASURING INSTRUMENTS
conducted by Research Cell-EEE during 04-09-2019 to
05-09-2019 at Saranathan College of Engineering and
has successfully implemented a concept validating
prototype of Digital Frequency Meter/Tachometer.


Dr.S. Vijayalakshmi
(Workshop Convener)


Dr.C. Krishnakumar
(Head- Dept of EEE)


Dr.D. Valavan
(Principal)



Special Lecture by :Prof.T.Venkatesan,Director,Fifth Wheel Drive, Trichy

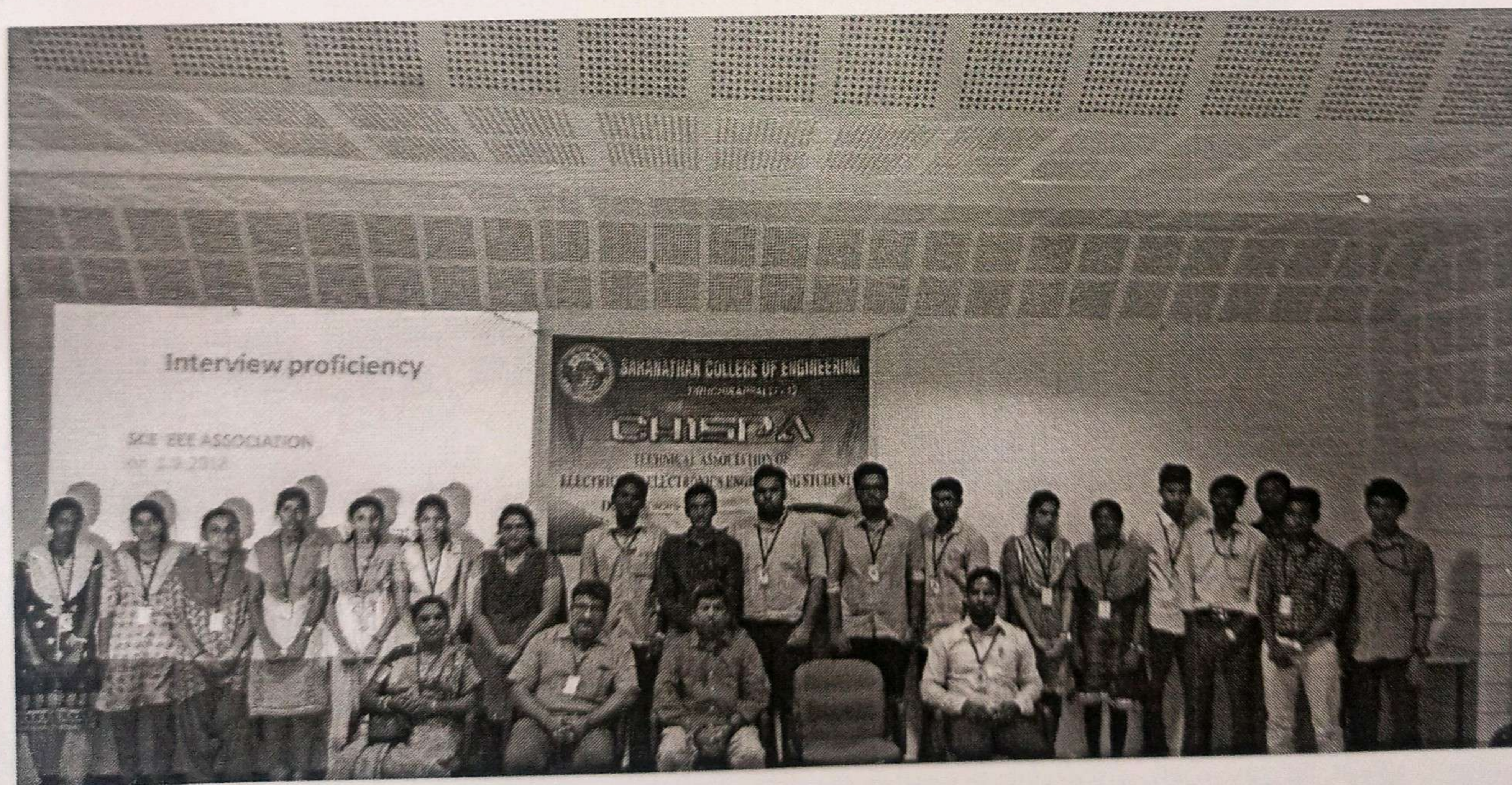
EEE ASSOCIATION INAGURAL FUNTION

The EEE Students Association Inauguration function was convened by the Department of Electrical and Electronics Department at Saranathan College of Engineering between 11.00 am to 12.30 pm. Final year students and all EEE staffs participated in the function. Prof.T. Venkatesan, Director, Fifth wheel drive, Trichy was the Chief Guest and gave the special Lecture as "**Interview Proficiency**". In his address, He discussed about "How to attend the interview" and also the challenges faced by students during the interview.

Ms.M. Nethra, students Secretary welcomed the gathering, Ms.X. Merlin Antonita, Vice-President addressed the Office bearers and Mr.N. Vishal, President delivered vote of thanks to the gathering.



Inaugural Function



Introduction of office bearers



SARANATHAN COLLEGE OF ENGINEERING
 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
 TIRUCHIRAPALLI - 620 012.

Date : 05.08.2019

Ref No : SCE/EEE/EEEA/2019-2020/01

Submitted to : The Principal

Submitted through: The HOD/EEE

Submitted by : Dr.S. Vijayalakshmi & Mr.M. Marimuthu

Account settlement report for EEE – Association Inaugural function on 02-08-2019.

Expenditure Details

1. Honorarium for the Resource Person	- Rs. 2,500.00
Total	<u>- Rs. 2,500.00</u>

Amount to be settled to Dr.S.Vijayalakshmi, Asso. Prof/EEE - Rs. 2,500.00

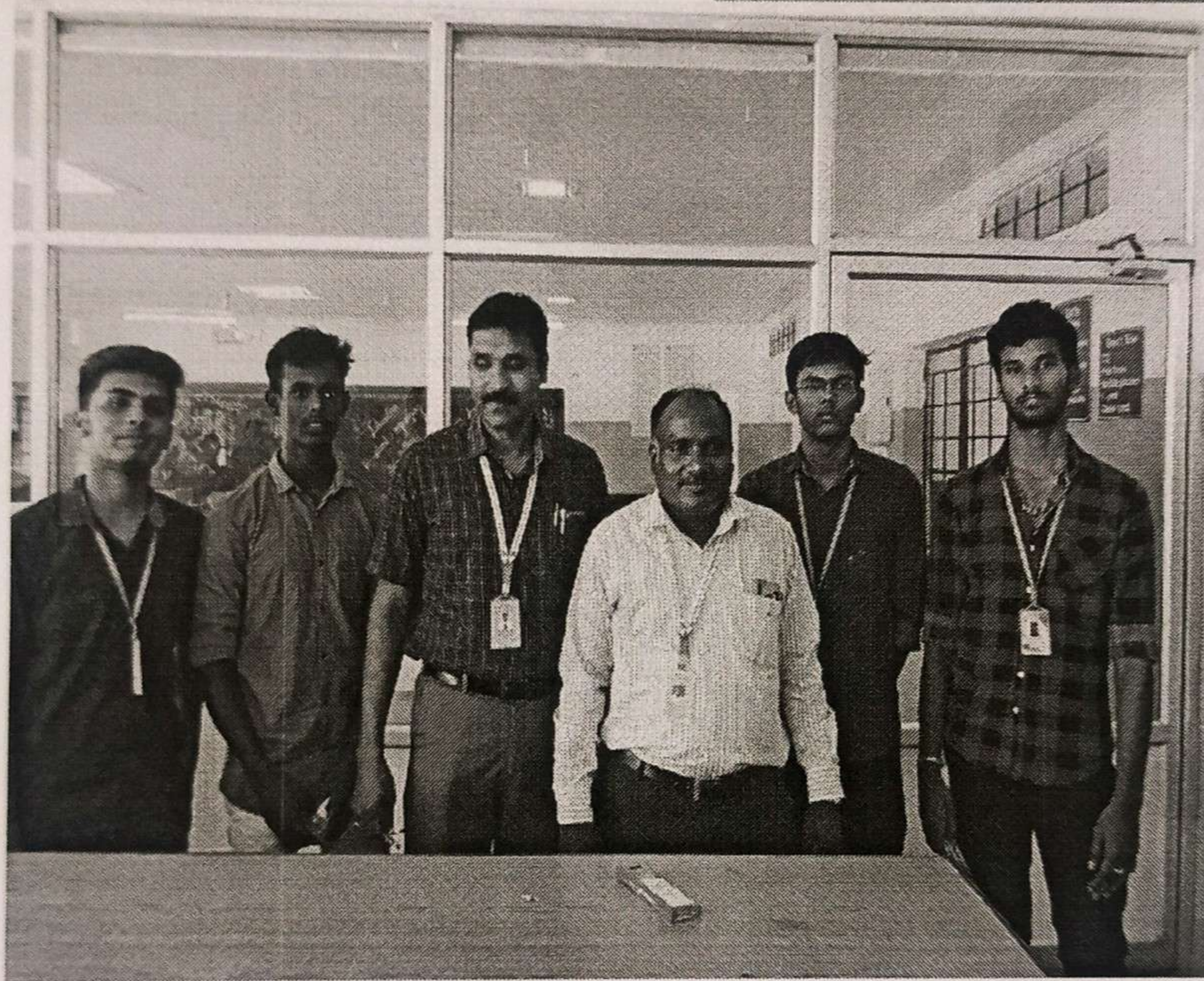
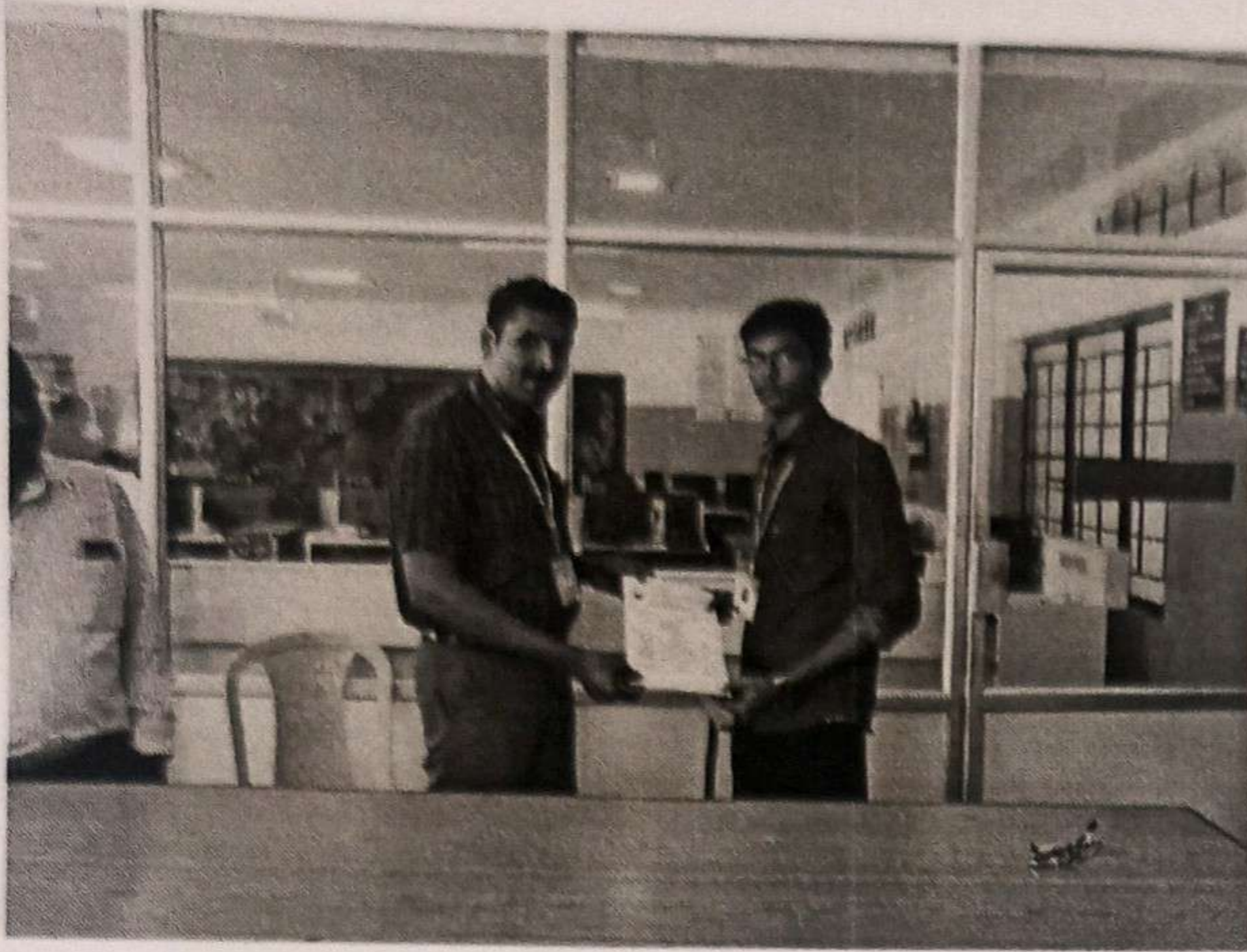
Thanking you

[Handwritten signature]

Yours truly

[Handwritten signature]
 (Dr.S. Vijayalakshmi
 M. Marimuthu)

[Handwritten note: 1/2 car per approval, 2014]



Valediction

EEE students Association meeting was convened by the Department of Electrical and Electronics Engineering at Saranathan college of Engineering on 28.09.2019 at MBA Seminar hall for third year EEE students. S. Ragavendran, IEI students chapter Chairman welcomed the gathering, the dignitaries on the Dias lighted kuthuvilaku and K.Sudhagar introduced the office barrers of IEI students chapter. The guest introduction is given by K.Devapriya followed by presenting memento to the Chief Guest by Dr.C.Krishnakumar, HOD-EEE and chief guest addressed the students with his speech. Prize distribution for the competitions held on Engineers day was distributed by the Chief Guest to the prize winners. Then the vote of thanks was delivered by S.Yamuna, Secretary of IEI students chapter.



SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
 TIRUCHIRAPALLI - 620 012.

Ref No : SCE/EEE/IEI/2020-2019/01

Date : 24.09.2019

Proposal for Engineers' Day Celebration

Submitted to : The Principal

Submitted by : Dr.S. Vijayalakshmi, Mr.M. Marimuthu

Submitted through : The HOD, Department of EEE

Sir,

Our EEE Department has planned to celebrate Engineers' Day on 28.09.2019 (Saturday) at Civil Seminar Hall between 3.30 pm to 4.30 pm under students chapter of IEI. The Keynote address will be delivered by Prof. Mr. B S Chandramouli, M.Com., M.B.A, Department of MBA, Saranathan College of Engineering, Trichy for our third year EEE students. In this regard, technical demonstration session on "ETAP and PLC/SCADA" will be provided by Livewire, Trichy between 1.30 pm to 3.30 pm. We request you to kindly approve the programme and also sanction the amount of Rs.5,300/- (Rupees Five thousand three hundred only) from the students IEI membership amount (2019-2020) paid in the office.

Chief Guest Memento	- Rs. 1,000/-
Refreshment for both students & faculty members	- Rs. 1,800/-
Prize amount for two competitions	- Rs. 2,000/-
Other expenses	- Rs. 500/-
(Certificates, Photo, reception material etc.)	

Total - Rs. 5,300/-

Thanking you

Submitted to the Principal.

* Technical demo will be useful to students.

* No financial Commitments to Institution.

(Handwritten signature)

(Handwritten signature and date 24/9/19)

Yours truly

1. *(Signature)*
 2. *(Signature)*
 1.(Dr.S. Vijayalakshmi,
 2.M. Marimuthu)



SARANATHAN COLLEGE OF ENGINEERING
 (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
 (Accredited by NBA)

28.08.2019

Mini-project competition – Circular

In view of Engineers day celebrations, our college organizes project day on 13.09.2019 for II year students and on 14.09.2019 for III year students.

All Project batches are requested to demonstrate their project moules in front of the department committee as per the schedule given below.

Sl.No	Batch No.	Name of the Students	Project Batch No.	Title of the Project	Name of the Mentor	Date and Time
1	213084	M.Santhiya	II-B-1	Development of Napkin Vendor	Ms.N.Gayathri	05.08.2019 04.00 PM – 04.45 PM
	213105	M.Varshinee				
	213070	B.Ragasudha				
	213068	K.A.Preethikaa				
	213095	S.Sivapriya				
2	213098	R.Sudharsan	II-B-2	Mini CNC	Ms.N.Gayathri	
	213100	M.Sundar				
	213086	R.Sargurunathan				
	213097	K.Subiksha				
	213101	M.Thendral				
3	213112	M.Yogeshwaran	II-B-3	Home Automation	Mr.P.Ramesh babu	
	213102	S.Thirumoorthy				
	213093	I.Sheik Mohamed				
	213091	R.Senthil Kumar				
	213078	S.Roche Roshan				
4	213107	J.Vasanth Kumar	II-B-4	Robotics	Ms.N.Gayathri	
	213108	A.Veron Lobo				
	213109	K.Vignesh				
	213110	M.Vijay Sai				
	213071	P.S.Ragul Vasanth				
5	213106	R.Vasanth	II-B-5	Gas Leakage Detection System	Mr.P. Ramesh babu	
	213088	R.Sathish Kumar				
	213104	S.Vairavan				
	213115	S.Gokul				
	213075	G.Rajalingam				
6	213066	R.Prajeeth Chander	II-B-6	Smart Home Appliances	Mr.P.Ram Prakash	
	213074	S.Rahul				
	213073	A.Rahul				
	213113	A.Albert Raj				
7	213058	M.A.J.Nancy De Johnpaul	II-B-7	Fire Fighting Robotic Vehicle	Mr.R.Sridhar	
	213059	A.Nisha				
	213063	S.Pankaj Bharathi				
	213065	M.Poojah				
	213069	M.Priyadarshini				

7	203043	KRISHNA BADRINATH	III-A7	IoT based water quality monitoring system	Mr.P.Ram Prakash	06.08.2019 04.00 PM – 04.45 PM
	203051	MOHAMED AASHIQUE. K. S				
	203057	MURUGAN. E				
	203027	HARIHARAN. V				
	203125	SENTHIL KUMAR. B				
8	203026	HARIHARAN. V	III-A8	Motion sensor Robot	Mr.B.Paranthagan	
	203039	KARUNAKARAN. G				
	203058	NAVEEN KUMAR. S				
	203035	JAYA CHANDRAN. S				
9	203003	ABINASHKUMAR. V	III-A9	Non-invasive blood glucose level estimation	Mr.P.Ramesh Babu	
	203018	DHARUN. M				
	203025	GOKUL. E				
	203017	DHARNEESH . K				
10	203052	MOHAMED IRFAN. N	III-A10	Wireless charging system	Mr.R.Balasubramanian	
	203015	DEEPAK KUMAR. A				
	203033	JACOB SELWYN. D				
	203048	MAKESHWARAN. B				
	203028	HARIPRASATH. S				
11	203014	DEENAA ROHIT. A	III-A11	Automatic Suitcase follower	Mr.M.Marimuthu	
	203056	MOHAMMED RIFAT				
	203037	JOSE MERRIL. S				
	203031	IMRAN. S				
12	203012	CHANDRA KISHORE.	III-A12	Arduino based Quadcopter Drone	Mr.R.Venugopal	
	203024	GOGUL. M				
	203005	ABINESH. R				
	203008	ARUL. S				
	203009	ASWIN KUMAR. A				

Sl.No	Batch No.	Name of the Students	Project Batch No.	Title of the Project	Name of the Mentor	Date and Time
1	203076	REVATHI. V	III-B1	Traffic density monitoring using Arduino	Dr.Suganyadevi	06.08.2019 11.55 AM – 12.45 PM
	203117	YAMUNA. S				
	203118	YASHWANDHNI. K				
	203063	PAVITHRA. K				
2	203124	KEERTHIGA. P	III-B2	Accidents Prevention System	Mr.S.Ramprasath	
	203082	SANKARI. S				
	203083	SANTHIYA. C				
3	203077	ROSHINI. R	III-B3	Design of two wheel self balancing Bot	Mr.S.Sivakumar	
	203072	PRIYANKA. E				
	203104	SUDHILAYA. M				
4	203087	SHALINI. S	III-B4	Automatic Indiction System of Glucose Level in Trip Bottle	Ms.N.Gayathri	
	203094	SIRISHA. S				
	203107	SWEATHA SRI. R				
	203102	SUBIKSHA. P				
5	203093	SINDHUJA. M	III-B5	Charging Phones by using coins	Dr.S.Vijalakshmi	
	203100	STEFFY JONES. A				
	203088	SHAMNI. J				
	203064	POORANI. J				
6	203070	PREETHI. V	III-B6	Water flow-Level Indicator	Mr.S.Ramprasath	
	203071	PRIYADHARSHINI. Y				
	203101	SUBALAKSHMI. G				
	203097	SRIJAH. R				

7	203065	PRAHATHISH. B	III-B7	Day-to-day monitoring of Energy consumption	Dr.M.V.Suganyadevi
	203062	PASHITH. H			
	203061	NOORUL AMEEN. S			
	203112	UDHAYAKUMAR. S			
8	203086	SENTHIL KUMAR. A	III-B8	Solar Tracking	Mr.S.Sivakumar
	203099	SRIRAM. R S			
	203098	SRINIVASAN. S			
	203109	THAMILVANAA. T S			
9	203084	SANTHOSH KANNA. N	III-B9	Smart Jammer for Mobile phone systems	Mr.R.Vijay
	203078	SABARISH. B			
	203081	SAMUEL RAJ. S			
	203132	TANWEER AHAMED			
10	203073	RAGHAVENDRAN. S	III-B10	IoT based water level and pressure indicator	Dr.S.Thamizharasan
	203103	SUDHAKAR. H M			
	203108	SYED ZAMEERBASHA			
11	203085	SARAVANAN. S	III-B11	Einvironmental aspects	Mr.S.Ramprasath
	203068	PRAVIN KUMAR. N			
	203074	RAKESH. K K			
	203079	SAKTHI RAJA. V			
12	203075	RAVICHANDRAN. P	III-B12	Automatic water stopper system	Mr.R.Venugopal
	203066	PRAVEEN. R			
	203095	SIVARAMAKRISHNAN. T			
	203067	PRAVEENKUMAR. K			

06.08.2019
11.55 AM –
12.45 PM

[Handwritten Signature]
28/8/19

Coordinator

[Handwritten Signature]
HoD/EEE



Saranathan College of Engineering

NH 45, Venkateswara Nagar, Panjappur, Tiruchirappalli-620012

(Approved by AICTE, New Delhi and Affiliated to ANNA University, Chennai)

Engineer's Day Celebration

Project EXPO

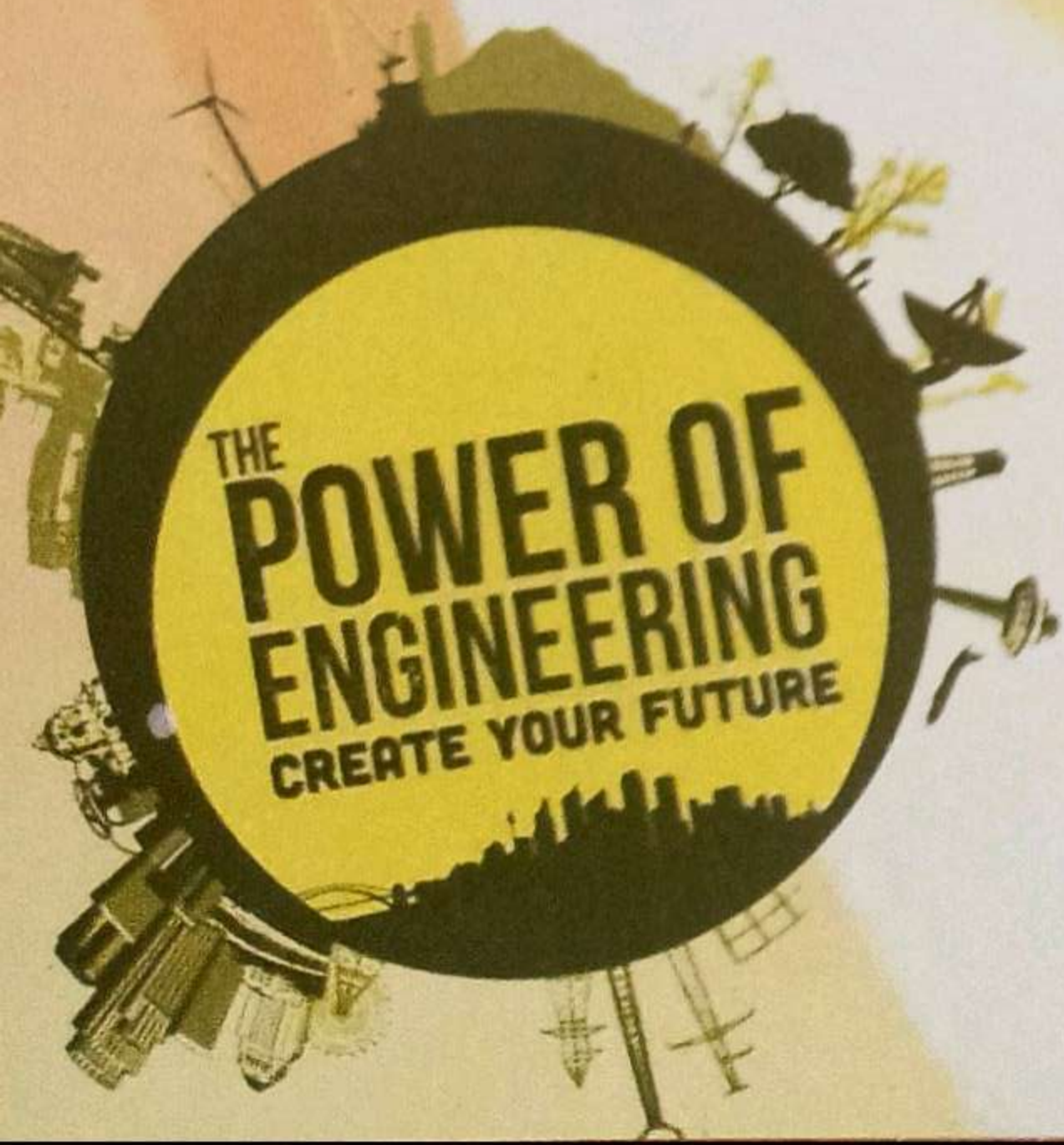
Certificate of Participation


This is to certify that, Mr. / Ms. BANUCHANDAR. B

of II / ~~III~~ / ~~IV~~ Year, Department of ELECTRICAL AND ELECTRONICS ENGINEERING

has presented the project titled GESTURE CAR

along with his/her team in the Project Competition on **13th & 14th September 2019.**

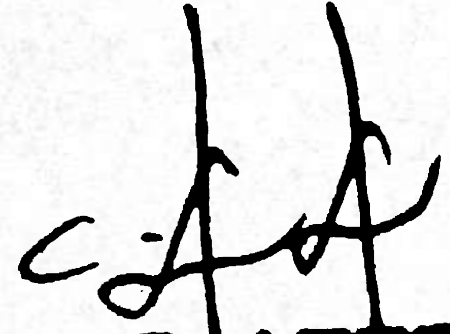



Head of Department


Principal

AGENDA

- INVOCATION
- WELCOME ADDRESS BY STUDENT PRESIDENT(IEI)
- LIGHTING KUTHU VILAKKU
- INTRODUCTION OF OFFICE BARRERS BY STUDENT SECRETARY(IEI)
- SPECIAL NOTE ON IEI
- FELICITATION ADDRESS BY PRINCIPAL
- CHIEF GUEST INTRODUCTION
- MOMENTO FOR CHIEF GUEST
- CHIEF GUEST ADDRESS
- PRIZE DISTRIBUTION
- VOTE OF THANKS BY STUDENT VICE –PREIDENT(IEI)
- NATIONAL ANTHEM


H.O.D. (IEI)
Sarmathan College of Engg.,
Talukupalli - 689 012.

ABOUT THE COLLEGE

Saranathan College of Engineering was founded by philanthropist Vidya Seva Ratnam Shri. K. Santhanam, in the year 1998 and was named after the great educationist Prof. V. Saranathan. The campus is located on Trichy - Madurai highway having an area of 21 acres with a built-up area of 2,60,000 Sq.ft. Seven U.G Programmes and Five P.G programmes are offered. Six eligible UG programmes are NBA accredited, All the programmes are affiliated to the Anna University - Chennai, and approved by AICTE, New Delhi.

ABOUT THE DEPARTMENT

Department of EEE was started in the year 1998. It is equipped with modern facilities besides conventional infrastructures. The department has well qualified experienced faculty, supporting staff and it is a recognized Research Centre by Anna University. The department has received grants from central and state government organizations like MNRE, DRDO, CSIR, AICTE and TNSCST for carrying out research work and organizing National Conferences / Workshops / Seminars. The sheer hard work and enthusiasm of the faculty members and students of the department helped making it as one of the best departments in the campus. There are about 23 faculty members in the department. Among them six are Ph.D. holders and twelve are pursuing Ph.D. The department has been extending the consultancy services to various industries with a special focus on Energy Auditing and Power Quality. It also offers value added training program in Protection and Switchgear for Industries and Academia, as a continuous learning program.

ABOUT THE PROGRAM

This program provides theoretical and practical knowledge on the course EE8602 -Protection and Switchgear for the faculty members to teach the students effectively. With the sophisticated Switchgear Lab facility (first of its kind), hands-on experience on practical circuit breakers and protective relays are employed. Sample HT/LT modern circuit breakers are provided for testing, troubleshooting and maintenance. Proper procedural methods to carry out insulation resistance tests, contact resistance measurements, polarity checking and terminal marking of current transformers, testing of relays, etc. will be demonstrated to the participants.

SCOPE OF THE PROGRAM

The program covers the following important aspects of Protection and Switchgear

- Causes of abnormal operating conditions (faults, lightning and switching surges) of the apparatus and system
- Characteristics and functions of relays and protection schemes
- Apparatus protection, static and numerical relays
- Electrical and Mechanical operation of Circuit Breakers
- Checking of various Switchgear interlocking requirements
- Testing of protective relays and establishing characteristics
- Design and execution of control and power wiring of LT switchgear
- Insulation measurements on HT Switchgear

RESOURCE PERSONS

Eminent Professors from reputed Institutions like IIT, NIT, AU, etc., and Experts from Industry.

Six-Day FDTP
on

EE8602 Protection and Switchgear

09.12.19 - 14.12.19

Coordinators

Dr.C.Krishnakumar
Professor & Head / EEE
Dr.D.Kalyankumar
Professor / EEE



Jointly Sponsored by
**Anna University
Chennai**



**Department of Electrical and Electronics
Engineering**

(NBA Accredited)

Saranathan College of Engineering

(Approved by AICTE, New Delhi & Affiliated to
Anna University - Chennai) Venkateswara
Nagar, Panjappur, Tiruchirappalli-620012



SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

09.12.2019

ANNA UNIVERSITY SPONSORED
FACULTY DEVELOPMENT TRAINING PROGRAMME
ON

EE8602 – PROTECTION AND SWITCHGEAR

INAUGURAL FUNCTION - BRIEF REPORT

The Department of Electrical and Electronics Engineering organizes Anna University sponsored Faculty Development Training Programme (FDTP) on EE8602 – Protection and Switchgear from 09.12.2019 to 14.12.2019. Thirty faculty members from Anna University affiliated institutions are attending this event. Mr. Vijay Karthick, Lead Technical Support Specialist, General Electric India Limited, Chennai, inaugurated this Programme on 09.12.2019 at 09.30 AM and handled the morning session. In the session, he enlightened the recent trends in power system protection and automation. He also explained the need of various types of relays and other protection systems along with their practical applications. The participants participated enthusiastically and they felt the session was most valuable. Earlier, Dr.C.Krishnakumar, Head of the Department welcomed the gathering and the event was felicitated by Dr.Valavan, Principal.



Mr. Vijay Karthick during the session



Dr.D.Valavan, Principal, felicitated the even



Dr.C.Krishnakumar, HOD/EEE, welcomed the gathering



SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
TIRUCHIRAPALLI - 620 012.

Date :19.12.2019

Ref No : SCE/EEE/FDTP/2019-20/01

Submitted to :The Principal

Submitted by : Dr.C.Krishnakumar

Account settlement report for Anna University sponsored Faculty Development Training Programme on EE8602 – Protection and Switchgear.

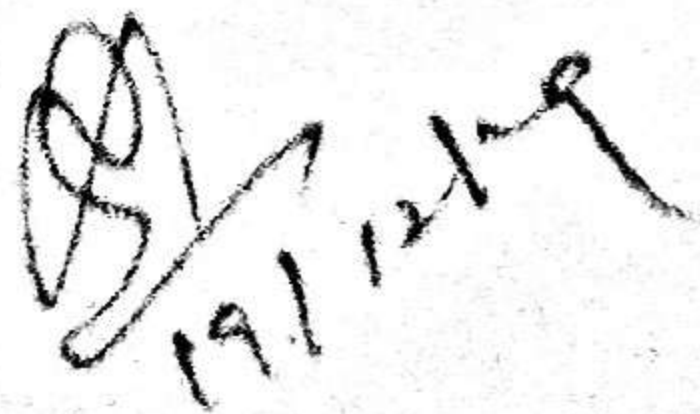
Expenditure Details

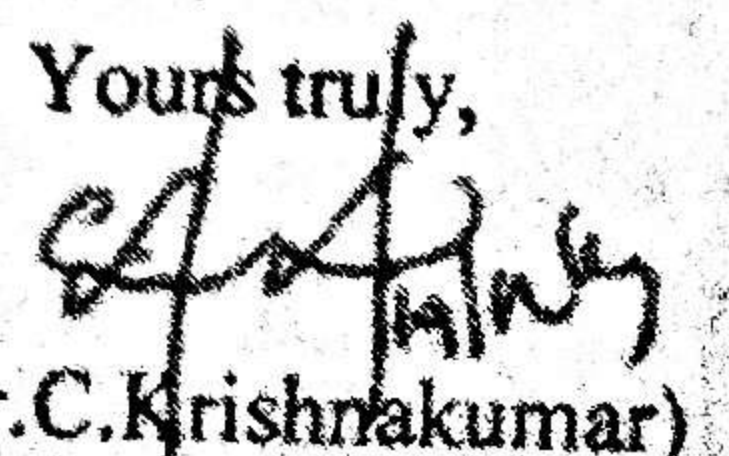
Sl.No	Voucher No. / Bill No.	Description	Details	Amount (Rs)
1.	SCE/EEE/ FDTP/01	Remuneration and Travel expenses for Resource Persons	Mr. Vijay Karthik, Dy.Gen. Manager, GE, Chennai	10,000.00
	02		Mr. P.S.Arunkumar, Manager, Schneider Electric Private Limited, Bengaluru	4,000.00
	03		Dr.V.Saravanan, TCE, Madurai	5,000.00
	04		Dr.Charles Raja, TCE, Madurai	5,000.00
	05		Dr.S.Venkatesh, VIT, Vellore	6,000.00
	06		Dr.S.Senthil Kumar, NIT, Trichy	5,000.00
	07		Dr.M.Venkata Kirthiga, NIT, Trichy	5,000.00
	08		Dr.Balasingh Moses, AUT, Trichy	4,000.00
	09		DrS.Bhagya Shree, UCE, Dindigul	4,000.00
	10		Dr.P.Anbalagan, AUT, Trichy	4,000.00
2.	060	Course Materials (including CD)	For 30 participants	1,890.00
3.	College-59	Food and Refreshment	For Participants and Resource Persons	30,608.55
Total				84,498.55

Total Amount sanctioned - Rs.87,900.00 (Including Food and Refreshment)
Advance amount received from the Office - Rs.58,500.00 (Excluding Food and Refreshment)
Amount spent - Rs.53,890.00 (S.No 1 and 2)

Balance - Rs. 4,610.00

Amount yet to be settled by the office - Rs. 30,608.55/- (S.No.3 – Bill No. College-59)


19/12/19

Yours truly,

(Dr.C.Krishnakumar)

SCHEDULE OF TRAINING PROGRAMME

Subject Code& Name : EE 8602 – PROTECTION AND SWITCHGEAR

Branch / Semester : ELECTRICAL AND ELECTRONICS ENGINEERING / VI SEMESTER

Day/ Session	Session –I (9.00 A.M -10.30 A.M)		Session –II (10.45 A.M – 12.15 P.M)		Session- III (1.30 P.M -3.00 P.M)		Session- IV (3.15 P.M -4.45 P.M)
09.12.19 MON	Mr.Vijay Karthik (Fundamentals of PS Protection)	T E A B R E A K	Mr.Vijay Karthik (Fundamentals of PS Protection)	L U N C H B R E A K	Mr. P.S.Arunkumar (Resource Person from Schneider Electric India, Chennai)	T E A B R E A K	Mr. P.S.Arunkumar (Resource Person from Schneider Electric India, Chennai)
10.12.19 TUE	Dr.V.Saravanan (Electromagnetic Relys)		Dr.V.Saravanan (Electromagnetic Relys)		Dr. S.Charles Raja (Transmission Line Protection)		Dr. S.Charles Raja (Transmission Line Protection)
11.12.19 WED	Dr.S.Venkatesh (Design of Circuit Breakers)		Dr.S.Venkatesh (Design of Circuit Breakers)		Dr. V.Senthil Kumar (Protection Schemes)		Dr. V.Senthil Kumar (Protection Schemes)
12.12.19 THU	Dr. M.Venkata Kirthiga (Rating and selection of Circuit breakers.)		Dr. M.Venkata Kirthiga (Rating and selection of Circuit breakers.)		Dr.M.Balasing Moses (Motor and Generator Protection)		Dr.M.Balasing Moses (Motor and Generator Protection)
13.12.19 FRI	Dr.S.Baghya Shree (CT,PT, Apparatus Protection)		Dr.S.Baghya Shree (CT,PT, Apparatus Protection)		Dr.P.Anbazhagan (Numeric Relays)		Dr.P.Anbazhagan (Numeric Relays)
14.12.19 SAT	Test for participants		Group Discussion / Lab Visit		Presentation by participants		Test paper distribution / feedback



HOD/ EEE

SCHEDULE OF TRAINING PROGRAMME

Code& Name : EE 8602 – PROTECTION AND SWITCHGEAR

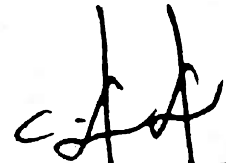
Branch / Semester : ELECTRICAL AND ELECTRONICS ENGINEERING / VI SEMESTER

Day/ Session	Session –I (9.00 A.M -10.30 A.M)		Session –II (10.45 A.M – 12.15 P.M)		Session- III (1.30 P.M -3.00 P.M)		Session- IV (3.15 P.M -4.45 P.M)
09.12.19 MON	Mr.Vijay Karthik (Technical Lead, GE, Chennai)	T E A B R E A K	Mr.Vijay Karthik (Technical Lead, GE, Chennai)	L U N C H B R E A K	Mr. P.S.Arunkumar Manager, Level-3, Schneider Electric, Bengaluru	T E A B R E A K	Mr. P.S.Arunkumar Manager, Level-3, Schneider Electric, Bengaluru
10.12.19 TUE	Dr. V.Saravanan (Assistant Professor, TCE, Madurai)		Dr. V.Saravanan (Assistant Professor, TCE, Madurai)		Dr. S.Charles Raja (Assistant Professor, TCE, Madurai)		Dr. S.Charles Raja (Assistant Professor, TCE, Madurai)
11.12.19 WED	Dr.S.Venkatesh (Associate Professor, VIT, Vellore)		Dr.S.Venkatesh (Associate Professor, VIT, Vellore)		Dr.S.Senthil Kumar (Assistant Professor, NIT,Trichy)		Dr.S.Senthil Kumar (Assistant Professor, NIT,Trichy)
12.12.19 THU	Dr. M.Venkata Kirthiga (Associate Professor, NIT,Trichy)		Dr. M.Venkata Kirthiga (Associate Professor, NIT,Trichy)		Dr.M.Balasing Moses (Professor, AUT, Trichy)		Dr.M.Balasing Moses (Professor, AUT, Trichy)
13.12.19 FRI	Dr.S.Bhagya Shree (Assistant Professor, UCE, Dindigul)		Dr.S.Bhagya Shree (Assistant Professor, UCE, Dindigul)		Dr.P.Anbalagan (Assistant Professor, AUT, Trichy)		Dr.P.Anbalagan (Assistant Professor, AUT, Trichy)
14.12.19 SAT	Test for participants		Group Discussion / Lab Visit		Presentation by participants		Test paper distribution / feedback



HOD/ EEE

Sl.No	Name of the Participant	Name of the College & Place	Signature											
			09.12.2019		10.12.2019		11.12.2019		12.12.2019		13.12.2019		14.12.2019	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
20	S.ANTONYRAJ	ANJALAI AMMAL MAHALINGAM ENGINEERING COLLEGE, THIRUVARUR	<i>Ant</i>	<i>Ant</i>	<i>Ant</i>	<i>Ant</i>	<i>Ant</i>	<i>Ant</i>	<i>Ant</i>	<i>Ant</i>	<i>Ant</i>	<i>Ant</i>	<i>Ant</i>	
21	J.AROKIARAJ	KINGS COLLEGE OF ENGINEERING, PUDUKOTTAI	<i>Ar</i>	<i>Ar</i>	<i>Ar</i>	<i>Ar</i>	<i>Ar</i>	<i>Ar</i>	<i>Ar</i>	<i>Ar</i>	<i>Ar</i>	<i>Ar</i>	<i>Ar</i>	
22	B.GAYATHRI DEVI	MOOKAMBIGAI COLLEGE OF ENGINEERING, TRICHY	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	
23	R.RAJTHILAK	MOOKAMBIGAI COLLEGE OF ENGINEERING, TRICHY	<i>Raj</i>	<i>Raj</i>	<i>Raj</i>	<i>Raj</i>	<i>Raj</i>	<i>Raj</i>	<i>Raj</i>	<i>Raj</i>	<i>Raj</i>	<i>Raj</i>	<i>Raj</i>	
24	V.JEYAMALINI	MOOKAMBIGAI COLLEGE OF ENGINEERING, TRICHY	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	
25	P.RATHI DEVI	JJ COLLEGE OF ENGINEERING AND TECHNOLOGY, TRICHY	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	
INTERNAL PARTICIPANTS														
26	DR.K.RAJKUMAR	SARANATHAN COLLEGE OF ENGINEERING, TRICHY	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	
27	MR.R.BALASUBRAMANIAN	SARANATHAN COLLEGE OF ENGINEERING, TRICHY	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	
28	MR.P.RAMESH BABU	SARANATHAN COLLEGE OF ENGINEERING, TRICHY	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	
29	MR.R.SATHEESH	SARANATHAN COLLEGE OF ENGINEERING, TRICHY	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	
30	MR.N.VIJAYASARATHI	SARANATHAN COLLEGE OF ENGINEERING, TRICHY	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	


N.O.D. (NNE)
Saranathan College of Engg.,
Trichy - 620 012.

CERTIFICATE



CENTRE FOR FACULTY DEVELOPMENT

ANNA UNIVERSITY :: CHENNAI

Ms. A. Priya Fatima Rani, Assistant Professor

Murugji College of Engineering & Technology, Manapparai
took part in a six-day Faculty Development Training Programme

EE 8602 - Protection & Switchgear

conducted by the Department of Electrical & Electronics Engineering

at Saranathan College of Engineering, Tiruchirappalli

from 09.12.2019 to 14.12.2019


DIRECTOR

Centre for Faculty Development


REGISTRAR
Anna University

06-06-2019

Submitted for Approval

We have enclosed the approval copy of the letter for organizing the switchgear training programme for the industrial participants (Adani Power Plant), sponsored by the Rural Energy Centre, Gandhi gram University, Gandhi gram, Dindigul district. We could not adhere to the originally proposed schedule due to our tight academic work and other activities like college day, convocation day and sports day functions. Also the Loksabha election activities in the campus posed further difficulties.

The revised schedule for the Switchgear Workshop is furnished below:

Title of the Workshop: "Industrial Practices & Learning of State-of-Art LV and HV Switchgear"

The total number of participants = 33 nos

10-06-19(Day-1) Monday – First batch of 17 nos of participants

11-06-19(Day-2) Tuesday- Second batch of 16 nos of participants

12-06-19(Day-3) Wednesday- First batch of 17nos of participants

13-06-19(Day-4) Thursday- Second batch of 16nos of participants

Registration fee per participant- Rs.1, 500/-

Each day we are providing lunch and morning/evening snacks & tea

Each day we are providing our college van (morning and evening) to pick up & drop from /at the Trichy Railway station (Junction) at 9.00 am and 5.00pm respectively.

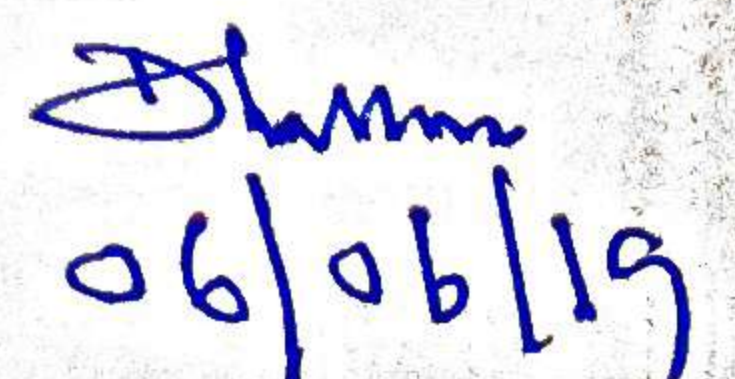


D.Kalyanakumar
EEE dept





Principal has
discussed
with Secretary
and obtained
oral approval


06/06/19



SARANATHAN COLLEGE OF ENGINEERING

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

Venkateswara Nagar, Panjapur, Tiruchirappalli - 620 012.

Department of Electrical & Electronics Engineering

“ Industrial Practices & Learning of State - of - Art LV and HV Switchgear”



VENUE: SWITCHGEAR TRAINING & RESEARCH LAB

Department of Electrical and Electronics Engineering

Vision

Will strive continuously in pursuit of creativity, innovations and ethics in the field of Electrical and Electronics Engineering to blossom into Centre of Excellence.

Mission

1. To impart total quality education through broader exposure, value additions and effective teaching learning process.
2. To mould students to meet professional challenges and to become outstanding Engineers and Technocrats.
3. To pursue research in the field of Electrical and Electronics Engineering to serve the needs of the industry, scientific community and society.

About The College

Saranathan College of Engineering was founded by philanthropist VidyaSevaRatnamShri.K.Santhanam, in the year 1998 and was named after the great educationist Prof. V. Saranathan. The campus is located on Trichy – Viralimalai – Madurai highway having an area of 21 acres with a built up area of 2,60,000 Sq.ft.. Seven U.G Programmes and Four P.G programmes are offered. Six eligible UG courses are NBA accredited. All the programmes are affiliated to the Anna University, Chennai, and have the approval of the AICTE, New Delhi.

About The Department

Department of EEE was started in the year 1998. It is equipped with modern facilities besides conventional infrastructures. The department has well qualified experienced faculty, supporting staff and it is a recognized Research Centre by the Anna University. The department has received grants from central and state government organizations like MNRE, DRDO, CSIR, AICTE and TNSCST for carrying out research work and organizing National Conferences / Workshops / Seminars. The sheer hardwork and enthusiasm of the faculty and students of the department has helped in making it as one of the best departments in the campus. There are about 25 Faculty members in the department. Among them six are Ph.D. holders and twelve are pursuing Ph.D. The Department has been extending consultancy services in the field of energy auditing and power quality auditing to various industries.

Outline of the training programme

Our Faculty members are actively involved in training and preparing the students/practicing Engineers to meet the requirements of real life situation, by taking them through various rigorous training and exercises. In today's world, barriers are breaking down and business environment is becoming highly competitive. In such a post-modern scenario, it is imperative to formulate new perspectives to add values through application oriented approaches to meet the challenge of changes and dynamism. Electrical and Electronics Engineering department will continue to help students and Engineers in shaping them as future professionals and assist them to improve their performance by imparting career oriented courses periodically. The switchgear training programme provides the basic skills required to operate and test the switchgear and protective devices. Hands on experience on practical circuit breakers and protective relays are employed. Sample HT/LT modern circuit breakers are provided

for testing, trouble shooting and maintenance. Proper procedural methods to carryout insulation resistance tests, contact resistance measurements, polarity checking and terminal marking of currenttransformers, testing of relays,etc will be demonstrated to the participants.

Infrastructure and vision

- To train the students to meet the challenges and demand for industrial skills in terms of quality of professional, safety, time & technical excellence.
- To identify the training needs of professional workforce and set standards to monitor occupational competencies and the technicalskills deployed in the industries.
- To disseminate knowledge and appropriate skill practices through recognized systems of training, testing and certification.
- To serve the social objectives of the institution through channelizing the potential and strength of the students for producing trained professionals, who are capable of delivering results, conforming to the industrial standards.

Scope of Training Programme

- Familiarize Switchgear and its Specifications
- Perform Electrical and Mechanical operation of Circuit Breakers
- Testing of Switchgear
- Checking of various Switchgear interlocking requirements
- Interpretation of Electrical wiring and Schematic diagrams of Switchgear
- Testing of protective relays and establishing characteristics
- Learning programming of Numerical relays
- Design and selection of protection transformers
- Understanding single line diagrams of distribution substation
- Demonstration of sequential substation interlocks
- Field measurements at prevailing load conditions
- Design and execution of control and power wiring of LT switchgear
- Insulation measurements on HT Switchgear
- BDV test on mineral oil
- Extensive hands on training with lucid presentations

Key takeaways

Acquire exposure and knowledge on

- Design of control and power circuits
- Fault diagnosis in Electrical Circuits
- Switchgear maintenance practices
- Testing of circuit breakers as per National standard
- Calibration of protective relays
- Single line diagrams of Distribution substation
- Various interlocking requirements for Switchgear and substations
- Distribution Boards and Terminations
- Distribution Transformer Protections
- Bus bar Layouts
- Selection of Current Transformers for Protection and Metering

Duration of Training

Two days

Eligibility Criteria

Third year, Final year and PG students of Electrical Engineering stream/practicing Engineers from Industries

Registration

Rs 1500 / Participant

Participant Strength: Limited to twenty numbers in view of practical Demos

Course Material: Soft copy of two days learning.

Patron: Shri. S. Ravindran, Secretary

Advisory board

Dr. D. Valavan, Principal

Dr. C. Krishnakumar, Professor & Head/EEE Dept.

Course coordinator

Dr. D.Kalyanakumar

Organizers

Prof. R.Venugopal

Prof. T.Tamilarasan

Prof. P.Ramprakash

Prof. R.Sridhar



SARANATHAN COLLEGE OF ENGINEERING-TRICHY
DEPARTMENT OF EEE

14.06.2019

SWITCHGEAR TRAINING WORKSHOP - REPORT

The Department of Electrical and Electronics Engineering, Saranathan College of Engineering has conducted from **10-06-19 to 13-06-19** a value-added Two Days training program titled “**INDUSTRIAL PRACTICES AND LEARNING OF STATE-OF- THE-ART IN LV & HV SWITCH GEARS**”. This training program was conducted for the employees of ADANI Green Energy Limited, Kamuthi, Ramanathapuram at Switchgear Research Laboratory in our campus, to expose the participants to the modern trends and Cutting Edge Technologies in the Switchgear front. Such a practical switchgear training in an Engineering college is the first and only one of its kind in India- a training that exposed the participants to every aspect of switchgear and protection engineering through a state-of-the-art training facilities, backed by a well-equipped laboratory and testing systems.

Two batches (16+16) totaling 32 participants attended the program. The first batch attended from 10.06.19 & 11.06.19 while the second batch was accommodated from 12.06.19 & 13.06.19. The program started at 09.30 AM with Dr.C. Krishnakumar, HoD/EEE, welcoming the gathering and highlighting the importance of industry-institute collaboration in research and development activities.

The forenoon session of the first day of training was handled by Dr. D. Kalyankumar, Prof./EEE. During this session, he explained the operation of various relays, the modern design of control and power circuits, substation requirements, field measurements of electrical parameters at the prevailing load conditions, various interlocking arrangements in the switchgear, wiring practices of LV switchgear, HV testing of insulation, selection of CTs for protection and metering, etc.

During the afternoon session, the participants were exposed to the operation of substation, transformers, grid connection and also to the solar power plant installed in our campus.


During the second day of training, the students were given the hands-on training on Invert Definite Minimum Time over current Relay, Numeric overcurrent and earth fault relay, Designing of AC Starters and the testing as per International Standards of High Voltage Circuit

breakers. The sessions were handled by Mr. T. Tamilarasan, AP/EEE, Mr. R. Venugopal, AP/EEE, Mr. P. Ram Prakash, AP/EEE and Mr. R. Sridhar, AP/EEE.

After successful completion of training, a test was conducted for the students followed by a valedictory session at 4.45 PM.

Dr. S. Thamizharasan, Asso.Prof./EEE, delivered the valedictory address for first batch participants and distributed the certificates. Dr. S. Vijayalakshmi, Asso.Prof./EEE, delivered the valedictory address for second batch participants and distributed the certificates

During the training, the participants had enthusiastically interacted with the trainers. This training will help them to broaden their technical skills and meet the prevailing industrial demands, professional challenges and corporate expectations and also give them a new and positive attitude towards the work culture that would enhance the productivity by ensuring energy efficient operation and reduced downtime of machinery. We received a very good feedback for this value-added program from the participants. Based on the feedback of the participant trainees the program seems to have attained its intended goal - to give a practical feel to students regarding modern trends on low voltage and High voltage switchgear products.


HoD / EEE
H.O.D. (EEE)
Saranathan College of Engg.,
Trichirapalli - 620 012.



Dr.K.Krishnakumar, Professor&Head,EEE, welcomed the gathering



Dr.Kalyankumar, Professor/EEE during the session



Dr.Kalyankumar, Professor/EEE explaining the operation of transformer in substation



Mr.R.Sridhar,AP/EEE, explaining the operation of IDMT Relay



Feedback given by the participants



Dr.S.Vijayalkshmi, Asso.Prof./EEE, distributing the certificate to the participant



Batch-II



Batch-I


HoD/EEE
H.O.D. (EEE)
Saranathan College of Engg.,
Trichrapalli - 620 012.

CRI transferred
Rs 49,500/- on 13/08/2019

Ref No

NACH 272804 -
C 081901563672
C 081901569755

Department of Electrical & Electronics Engineering
SARANATHAN COLLEGE OF ENGINEERING
Trichy - 620012.

SCE/EEE/SWGR/GRI/JUN 19-1

12-07-2019

THE REGISTRAR,
Gandhigram Rural Institute,
Gandhigram-624302

Name of Training Programme: Switchgear Training Dates of training: 10-06-19 to 13-06-19
Venue: Switchgear Research and Training Laboratory
Participants: 33 nos of students (B.Voc course), Rural Energy Centre, Gandhigram Rural Institute

REGISTRATION FEE FOR PARTICIPATION

SL.NO	DESCRIPTION	REGISTRATION FEE PER PARTICIPANT	TOTAL AMOUNT NETT
1	Registration fee per participant	Rs.1,500/-	-----
2	Registration fees for 33 nos of participants 33 x 1500 =	-----	Rs.49,500/-
Total Registration Fees (Rupees Forty Nine Thousand Five Hundred)		Rs.49,500/- nett	

Bank Details for Money Transfer:

Name of Account: Saranathan College of Engineering
Account No: 023001000138318
Bank Name: City Union Bank
Account Type: Saving Accounts
IFS Code: CIUB0000023
MICR CODE: 620054002
Branch: TRICHY MAIN BRANCH

Sent to CRV
in College
Letter Head.

—sd—

Dr.C.Krishnakumar

SCE/EEE/SWGR/B.VOC/Adani/GRI

09-07-2019

TO
THE REGISTRAR,
Gandhigram Rural Institute,
Gandhigram-624302.
Dindigul District,
Tamilnadu.

Sir,

This refers to the Switchgear workshop organized by the Department of Electrical&Electronics Engineering, Saranathan College of Engineering, Trichy, from 10-06-2019 to 13-06-2019 at the Switchgear Research Laboratory. This workshop has been successfully completed for thirty three numbers of participants attended from Rural Energy Centre (B.Voc course). We request you to kindly transfer the registration fee of Rs.49, 500/- (Rupees Forty Nine Thousand Five Hundred) at the rate of Rs.1500/- per participant (Rs.1500 x 33= Rs.49, 500/-) to the following account:

Name of Account: Saranathan College of Engineering
Account No: 023001000138318
Bank Name: City Union Bank
Account Type: Saving Accounts
IFS Code: CIUB0000023
MICR CODE: 620054002
Branch: TRICHY MAIN BRANCH

Thanking you,

Yours truly,



Dr.C.Krishnakumar

*Sent to GSRU
In College
to the head*

List of Students who got first five scores

S.NO	Name of the Student	Marks Obtained out of 50
1	Rajkumar K	43
2	Anupam Pradhan	41
3	Vinay Kumar. C	39
4	Ajay	39
5	Chandan Acharya	38
6	Vinay. S	37
7	Pavan Kumar	37

List of Students who got last five scores

S.NO	Name of the Student	Marks Obtained out of 50
1	Sachitra Swain	24
2	Ashadeep Anand	23
3	Abhijeet Kumar	23
4	Bhabani Sankar Sahoo	23
5	Manju Nath	21
6	Jidh Kumar	21
7	Niranjan Mallick	19
8	Sibaram Badatya	12

Score Range of Students

S.No	Score Range	No. of Students
1	41-50	2
2	31-40	12
3	21-30	16
4	11-20	2
5	0-10	0



SARANATHAN COLLEGE OF ENGINEERING

TIRUCHIRAPPALLI-620012

DEPARTMENT OF EEE

SWITCHGEAR TRAINING-TWO DAYS WORKSHOP

FOR ADANI GROUP EMPLOYEES- JUNE 10-13,2019

MARK STATEMENT

S.NO	Name of the Student	Marks Obtained out of 50
1	Bipin Pradhan	31
2	Niranjan Mallick	19
3	Vinay. S	37
4	Anupam Pradhan	41
5	Prakash Chandra Sahoo	26
6	Pramod Kumar Behera	27
7	Subrata Kumar Patra	26
8	Sibaram Badatya	12
9	Ashadeep Anand	23
10	Sudesh Yadav	32
11	Rajkumar K	43
12	Soumen Kumar Sahu	34
13	Ravi Teja	33
14	Savan Singa	28
15	Vinay Kumar. C	39
16	Manju Nath	21
17	Sachitra Swain	24
18	Rajiranjan Pani	33
19	Buddha Priyo Paul	29
20	Chandrakanta Rout	28
21	Ajay	39
22	Abhijeet Kumar	23
23	Pavan Kumar	37
24	Rajesh Nayak	34
25	Bhabani Sankar Sahoo	23
26	Rahul Renjan	33
27	Samir Ranian Sahoo	29
28	Chandan Acharya	38
29	Vishal Sikha	26
30	Rohit Kumar Ojha	28
31	Abbu Thorab	29
32	Jidh Kumar	21



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Venkateswara Nagar, Panjapur, Tiruchirappalli - 620 012.

Department of
Electrical & Electronics Engineering

CERTIFICATE OF PARTICIPATION

VINAYS

.....
participated in the training programme entitled
" **Industrial Practices & Learning of State - of - Art LV and HV Switchgear**"
held on **JUNE 10-03, 2019** at
Saranathan College of Engineering.

A handwritten signature in red ink, appearing to read 'D. Kalyanakumar'.

Dr.D.KALYANAKUMAR
Professor / EEE dept

A handwritten signature in red ink, appearing to read 'C. Krishnakumar'.

Dr.C. KRISHNAKUMAR
Professor & Head / EEE

A handwritten signature in green ink, appearing to read 'D. Valavan'.

Dr.D. VALAVAN
Principal



SARANATHAN COLLEGE OF ENGINEERING
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
(Accredited by NBA)

20.01.2019

Switch Gear Training - Circular

Department of Electrical and Electronics Engineering organizes Switch Gear Training series titled “**INDUSTRIAL PRACTICES AND LEARNING OF STATE-OF- THE-ART IN LV & HV SWITCH GEARS**”.

In this Regard, The Training Program will be conducted as a phased manner. Each phase contains around 16 students and the program will be conducted for Two days. The detailed schedule of the training program is given below.

Batch -1

Sl.No	Time	Particulars	Resource Person(s)
Day-1			
1.	09.15 AM	Registration	
2.	09.30 AM – 12.30 PM	Overview of Protection in Power Systems	Dr.D.Kalyanakumar
3.	01.30 PM – 04.30 PM	(i) IDMT Relay operation (ii) Numeric Relay operation (iii) Star-Delta Starter operation (iv) Transformer – High voltage Testing	Mr.R.Sridhar Mr.P.Ram Prakash Mr.T.Tamilarasan Mr.R.Venugopal
Day-2			
4.	09.30 AM – 12.30 PM	(i) IDMT Relay operation (ii) Numeric Relay operation (iii) Star-Delta Starter operation (iv) Transformer – High voltage Testing	Mr.R.Sridhar Mr.P.Ram Prakash Mr.T.Tamilarasan Mr.R.Venugopal
5.	01.30 PM – 04.30 PM	Field Visit and Practical Testing of Protection and Switchgears	Dr.D.Kalyanakumar


HoD / EEE

H.O.D. (EEE)
Saranathan College of Engg.,
Trichirappalli - 620 012.



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**(ACADEMIC YEAR 2018-2019)
COMPETITIONS &
WORKSHOPS**



SARANATHAN COLLEGE OF ENGINEERING, TIRUCHIRAPPALLI – 12

Champion of Champions is the event presented by APSSDC (Andhra Pradesh State Skill Development Corporation) and powered by Dassault Systems and Hero Electric. This is the event to recognize Skills and Innovation of Engineering Students all over India who have put their hard work and creativity for their Automotive project and participated in various National & International Level Events.

The poster features the APSSDC logo at the top left, three government ministers in the top center, and the event title 'CHAMPION OF CHAMPIONS' in a large, stylized font. Below the title, it lists the event categories: BAJA ATV, Student Formula, and Go-Kart. The dates '22ND - 24TH FEB 2019' are prominently displayed. The poster also mentions an 'Expert Lecture Series' and an 'Educational Fair'. At the bottom, it lists the sponsors: Hero Electric, Dassault Systemes, KL University, ISIF India, and FMSCI. The contact information 'www.imperialsociety.in' and 'Ph. No. : 0120-6598457' is provided at the very bottom.

The 1st Edition of this Event is hosted by KL University, Vijayawada, AP from **22nd to 25th Feb 2019**. Imperial Society of Innovative Engineers (ISIEINDIA), India's Favourite E-Mobility Motorsports, Education and Research organization had taken pride to organize this event.

All teams competed with their own category teams. Only 20 teams from each category: BAJA ATV, Students Formula and Go-kart are selected to participate every year and will be recognized by APSSDC, Govt. of AP.



- **Best Team spirit Award-To the Whole Team.**
- **Best B-Plan Award- Business Team.**

As the continuation of Baja Event our team participated in this event and **won Best B-Plan award** which is been awarded for the best Sales Presentation and **Team Spirit Award**.



Team Details

<i>Name</i>			<i>Year and department</i>
Mr.	Prabhakaran	A	4th Mech
Mr.	Manish	A. E.	3rd EEE
Mr.	Vaithilingam	AL	4th Mech
Mr.	Seenivasan	T	3rd Mech
Mr.	Mathu Deepan	S	4th Mech
Mr.	Aravindh	V	3rd EEE
Mr.	Soorya	B	4th EEE
Mr.	Antony Rozario Gnanaraj	B	3rd EEE
Mr.	Viswaragavan	N	3rd Mech
Ms.	Mythili	S	4th EEE
Mr.	Keerthi vasan	R	4th Mech
Mr.	Raman Kanth	R	4th Mech
Mr.	Amrishwaran	A	2nd Mech
Mr.	Harish	R	4th MECH
Mr.	Subramanian	D	3rd EEE
Mr.	Santhosh	S	3rd Mech

REPORT ON COC CONTEST

- **Team Name** : **Team FLUX**
- **Total No. Of Student Participants** : **16 (6 - EEE & 10- Mechanical)**
- **Final Round Venue & Date** : **KL University, Andhra Pradesh /**
22ND-24TH FEB 2019
- **Final Round Ranking** : **13th Rank all over INDIA out of 40 Teams**
- **Awards & Prizes won** : **2 Awards**
 - **Best Team spirit Award-To the Whole Team.**
 - **Best B-Plan Award- Business Team.**

Faculty Mentors :

- 1. MS. N. GAYATHRI AP/EEE**
- 2. MR.PARAMAGURU AP/MECH**



Our Secretary sir Appreciated the team for their winning in the champions of Champions event.



**SARANATHAN COLLEGE OF ENGINEERING,
TIRUCHIRAPPALLI – 12
SOCIETY OF AUTOMOTIVE ENGINEERS, INDIA.**



SAE, known as Society of Automotive Engineers India is an International non-profit engineering and scientific society dedicated to the advancement of mobility community in India. In 2007 Baja SAEINDIA was launched which proved to be the growing crop of engineers from colleges across the country to showcase their talent and fuel the growth of the Indian automotive industry. All-Terrain Vehicle (ATV) is a vehicle that travels on low-pressure tires, with a Seat that is straddled by the operator, along with handlebars for steering control.

The design and Fabrication of an All-Terrain Vehicle is the objective of the competition where around 400 colleges will compete and be validated for Steering, Suspension, Traction, Maneuverability and Endurance. The e BAJA competition is

similar to main BAJA where the power train is replaced with Motor and Accumulator setup instead of an I.C. Engine.

A team of 25 members were selected among the interested students of various department of our college and are further trained with various lectures of Prof. T.Venakatesan, Managing Director, Fifth wheel Drive as a part of preparation for the program.

The students were further divided into various groups such as design of steering, suspension, Braking and roll cage, and further as procurement, manufacturing, Finance. A Prototype is also made to verify that the roll cage complies with the rule book specification of SAE INDIA which always gives primary importance to safety of the driver.



Roll cage – Prototype



eBAJA team at Virtual Round

The complete design for virtual round prepared and presented by FIVE students at **CHITKARA UNIVERSITY, Punjab** on **14-July-2018**. The senior Engineers of various Automobile industries and Electrical Industries like, General Motors, Mahindra, ANSYS, L&T, Bosch, Math Works, Compag Automation Systems, Briggs and Stratton were among the Jury panel. The basic Knowledge on Automobile and the influence of parameters on the vehicle were tested.

Our college team 'TEAM FLUX' is shortlisted among the 60 colleges and secured **17th place among Nation and 3rd place among the State.**

The students have built a highly efficient Electrical All-Terrain Vehicle (E-ATV). They started the process by first building the Roll Cage with the standard material procured. After this set up, some of the components which constitute the major part such as the Suspension, Brake systems, Electrical Kit etc were constructed.



The contagious enthusiasm of the team attracted willing sponsors to the project. Sponsors like MPM, Black Thunder, KR fuels, RBS, Honda, CADD centre, Riveraa Computers, Hero, LA Cinemas, Anand Engineering, Velmurugan Industries, Ceeyes Engineering, Krishna Bhavan, Vasanth Traders, Sri Chakra Tyres and Universal Tread partially underwrote the costs .

After days of rigorous efforts the students successfully completed the manufacturing of the Electrical ATV. Their hard efforts and the faith that the whole college and the sponsors had on the team didn't go into vain. They were one among the 14 TN teams that cleared the Technical Inspection in the first attempt in the dynamic round held from 23/1/19 till 26/1/19 at pithampur .

The team believed that “Go Green” and “Make in India” were initiatives that would be the beacons of hope for an ecologically friendly sustainable future.



TEAM NAME LIST:

S. NO	NAME	YEAR AND DEPT
1	KEERTHI VASAN. R	IV MECH A
2	MATHU DEEPAN. S	IV MECH B
3	PRABHAKARAN. A [V. CAPTAIN]	IV MECH B
4	RAMANKANTH R.	IV MECH B
5	VAITHILINGAM .AL	IV MECH B
6	YATHINDER KRISHNA .S	IV MECH B
7	SEENIVASAN. T	III MECH B
8	VIGNESHWARAN. J	III MECH B
9	VISWARAGAVAN.N	III MECH B
10	AMRISHWARAN. A	II MECH A
11	HARISH M	II MECH A
12	SOORYA.B [CAPTAIN]	IV EEE B
13	PRADEEP RAAJ. K	IV EEE B
14	PAVINTHAN. M	IV EEE B

15	RAGHAVAN. S.S	IV EEE B
16	SIVA SHANKAR. M.R	IV EEE B
17	MYTHIL.S	IV EEE B
18	NANDA .S	IV EEE B
19	SIVASUBRAMANIAN.S	IV EEE B
20	ANTONY ROZARIO GNANARAJ. B	III EEE A
21	ARAVINDH. V	III EEE A
22	MANISH .A.E	III EEE B
23	GOWTHAM. K	III EEE A
24	SUBRAMANIAN. D	III EEE B
25	SUREYA PRAGAASH .G	IV CSE B

FACULTY ADVISORS:

1. MS. N. GAYATHRI AP/EEE
2. MR.A.MARIAJACKSON AP/MECH
3. MR.J.SIVASUBRAMANIAN AP/MECH
4. MR.A.RANJITH RAJ AP/MECH

SARANATHAN COLLEGE OF ENGINEERING

National Level Solar Vehicle Challenge (NSVC) 2019

TEAM PHOENIX REPORT

The Dynamic round for NSVC event was conducted from 28/02/2019 to 04/03/2019 in REVA University at Bangalore. A team of 41 students (23- Electrical and 18-Mechanical) from our college were performed and secured **overall 5th rank** in National level out of 19 teams from different states.

We thank our Secretary, Principal and Head of the Department for motivating us to perform well in national level challenge.

Event was held for 4 days, our solar car was evaluated under various technical and also in business aspects.

Schedule and overall performance of the event were listed below:

S.NO	Event Conducted	Attempt Made/Given	Date cleared
1.	Design Technical Inspection	3/3	02/03/2019
2.	Mechanical Technical Inspection	2/3	02/03/2019
3.	Electrical Technical Inspection	2/3	02/03/2019
4.	Business Plan	1	03/03/2019
5.	Acceleration test	2/2 Attempt 1- 35 km/h Attempt 2- 45km/h	03/03/2019
6.	Braking Test	2/2 Attempt 1- Above 7m Attempt 2- Below 5 m	03/03/2019
7.	Cross Road	7min 3sec	04/03/2019
8.	Start up Idea	Best of top 3	04/03/2019
9.	Innovation Round	Totally 7 Innovation in our vehicle	04/03/2019
10.	Battery Endurance	84 km (28 km * 3 laps)	05/03/2019

SCORE TABLE

S.NO	Event Name	Marks Obtained/ Alloted
1.	Technical Inspection	45/50
2.	Design	69/100
3.	Business Plan	69/100
4.	Innovation	72/100 (overall 3 rd)
5.	Weight	28/50
6.	Braking & Acceleration Test	49/100
7.	Cross Road	120/200
8.	Battery Endurance	250/300
9.	Solar Endurance	30/200
Total		732/1200

Ranking of NSVC 2019

Rank	Score	Team Name
1.	1150	Mavericks -Kerala
2.	1022	Hyperion (Infinity 3.0) - Maharashtra
3.	920	Sharik- Tamil Nadu (Saranathan College of engineering)
4.	734	Sauveg - Maharashtra
5.	732	Phoenix-Tamil Nadu (Saranathan College of engineering)

Awards won by team PHOENIX:

- **Phoenix team won TEAM SPRIT award with a cash prize of Rs 2500/-.**
- **Third Prize in innovation.**
- **Second in Start-up.**

Team Captain : SURYA JOTHIS / Mech / IV year – B section

Vice Captain : SURENDRAN.K.R / EEE / IV year – B section

Team Mentors:

1. Mr. S. Ram Prasath, (AP/ EEE).

2. Ms. R.S. Shiva Ranjani, (AP / Mech).

STUDENTS NAME LIST: TEAM PHOENIX

S.NO	BATCH NO	NAME	YEAR / DEPT	SEC
1	183025	DINESHKUMAR V	IV / EEE	A
2	183131	AJITH KUMAR. A	IV / EEE	B
3	183124	HARI PRAKASH. R	IV / EEE	B
4	183119	VISHAL. N	IV / EEE	B
5	183105	SURENDRAN.K.R	IV/EEE	B
6	183077	PRINCE THOMSON J	IV/EEE	B
7	193032	HARIHARAN.K	III / EEE	A
8	193044	KISHORE KUMAR.U	III / EEE	A
9	193028	GUHAN.R	III / EEE	A
10	193009	ARULRAJA.S	III / EEE	A
11	193026	GOKUL NATH.A.J	III / EEE	A
12	193035	INDHU.R	III / EEE	A
13	193061	NANDHINI.T	III / EEE	A
14	193037	JOICY.J	III / EEE	A
15	193045	KOWSALYA.S	III / EEE	A
16	193066	PRABHAKARAN.S	III / EEE	B
17	193067	PRADEEP.A	III / EEE	B
18	193081	SACHIN.S	III / EEE	B
19	193070	PRAGATHEESWARIG	III / EEE	B
20	193062	NETHRA.M	III / EEE	B
21	193086	SELVASHANTHINI.S	III / EEE	B
22	203004	ABINAYA.L	II / EEE	A
23	203043	KRISHNA BADHRINATH	II / EEE	A
24	203079	V. SAKTHI RAJA	II / EEE	B
25	203070	RAKESH.N	II / EEE	B
26	186108	SURYA JOTHI.S	IV / MECH	B
27	186103	S. SHARAN	IV / MECH	B

28	196015	DHINAKARAN.S.S	III / MECH	A
29	196033	KARTHIKEYAN.R	III / MECH	A
30	196124	KISHORE.S	III / MECH	A
31	196132	VENKITA KRISHNAN.S	III / MECH	B
32	196071	RAGUNATH.N	III / MECH	B
33	196068	PRETHISH.V	III / MECH	B
34	196107	THANVEER ELAHI.A	III / MECH	B
35	196097	SHAMEER.N	III / MECH	B
36	196082	SAIKIRAN.M	III / MECH	B
37	196103	SUBASH.A.R	III / MECH	B
38	206018	ASHWIN.S.S	II / MECH	A
39	206034	IJAS AHAMED.J	II / MECH	A
40	206122	YASHIK KARTHI.N	II / MECH	B
41	206064	MUKUL.V	II / MECH	B
			EEE	25
			MECH	16
			Total	41

SARANATHAN COLLEGE OF ENGINEERING

National Level Solar Vehicle Challenge (NSVC) 2019

TEAM SHARIK 2.0 REPORT

The Dynamic round for NSVC event was held from 28/02/2019 to 04/03/2019 in REVA University at Bangalore. A team of 38 students (23-Electrical and 15-Mechanical) from our college were performed and secured **overall 2nd runner up** in National level out of 19 teams from different states.

We thank our Secretary, Principal and Head of the Department for motivating us to perform well in national level challenge.

Event was held for 4 days, our solar car was evaluated under various technical and also in business aspects.

Schedule and overall performance of the event were listed below:

S.NO	Event Conducted	Attempt Made/Given	Date cleared
1.	Design Technical Inspection	2/3	01/03/2019
2.	Mechanical Technical Inspection	2/3	01/03/2019
3.	Electrical Technical Inspection	2/3	02/03/2019
4.	Business Plan	1	02/03/2019
5.	Acceleration test	2/2 Attempt 1- 42 km/h Attempt 2- 45km/h	03/03/2019
6.	Braking Test	2/2 Attempt 1- Above 5m Attempt 2- Below 6 m	03/03/2019
7.	Cross Road	3min 3sec	04/03/2019
8.	Start up Idea	Best of top 5	04/03/2019
9.	Innovation Round	Totally 6 Innovation in our vehicle	04/03/2019
10.	Battery Endurance	84 km (28 km x 3 laps)	05/03/2019

SCORE TABLE

S.NO	Event Name	Marks Obtained/ Allotted
1.	Technical Inspection	45/50
2.	Design	69/100
3.	Business Plan	73/100
4.	Innovation	71/100
5.	Weight	32/50
6.	Braking & Acceleration Test	50/100
7.	Cross Road	200/200 (winner)
8.	Battery Endurance	260/300
9.	Solar Endurance	120/200
Total		920/1200

Ranking of NSVC 2019

Rank	Score	Team Name
1.	1150	Mavericks -Kerala
2.	1022	Hyperion (Infinity 3.0) - Maharashtra
3.	920	Sharik- Tamil Nadu (Saranathan College of engineering)
4.	734	Sauveg - Maharashtra
5.	732	Phoenix-Tamil Nadu (Saranathan College of engineering)

Awards won by team SHARIK:

- **Sharik team won overall 2nd runner up award with a cash prize of Rs 20000/-.**
- **Auto cross A and B winner with a cash prize of Rs 10000/-**
- **Team spirit award with cash prize of 2500/-**

Team Captain : Boopathinavaneethan.S / EEE / IV year – A section

Vice Captain : Deepan.R/ Mech / IV year – A section

Team Mentors:

1. Mr. P.Ramesh Babu, (AP/ EEE).

2. Mr. R.Vigneshwaran, (AP / Mech).

STUDENTS NAME LIST: TEAM SHARIK 2.0

SI.NO	Team Member Name	Field of Study	Year
1	Boopathinavaneethan.S	EEE	IV
2	Deepan.R	Mechanical	IV
3	Abishek.S	EEE	IV
4	Arun Prasath.P.A	EEE	IV
5	Barath.R	EEE	IV
6	Bharanidharan.M.S	EEE	IV
7	Leo Aldrinraj.A.S	EEE	IV
8	Vignesh.V	EEE	IV
9	Ragul.R	EEE	IV
10	Saravanan.R	EEE	IV
11	Sripaul J	EEE	IV
12	Aravindan.U	EEE	IV
13	Ajay L	EEE	III
14	Bhuvanewari.S	EEE	III
15	Ganeshkumar.V	EEE	III
16	Hema Dharshini.GV	EEE	III
17	Mohamed Nasrullah.N	EEE	III
18	Nirubhanjali.R.V	EEE	III
19	Shabash Khan	EEE	III
20	Sharvin.J	EEE	III
21	Pavithra.K	EEE	II
22	Sabarish.B	EEE	II
23	Udaya Simha.R	EEE	II
24	Keerthiga.P	EEE	II
25	Lokeshraj.M	Mechanical	IV
26	Prasanna Venkatesh.G	Mechanical	IV
27	Panneer Selvam.R	Mechanical	IV
28	Harish.B	Mechanical	IV
29	Arjun.A.Nair	Mechanical	IV
30	Bensen Suraj.M	Mechanical	III
31	Cherarajan.K	Mechanical	III

32	Kishore.A	Mechanical	III
33	Mathavan.S.R	Mechanical	III
34	Ashwin.S	Mechanical	II
35	Iqbal Fayas A	Mechanical	II
36	Jerald Joshwa.G	Mechanical	II
37	Yogeshwaran.B	Mechanical	II
38	Ashok.C	Mechanical	II
	EEE		23
	MECHANICAL		15
	TOTAL		38



Saranathan College of Engineering Tiruchirapalli

DETAILED REPORT ON SUVC CONTEST

Our college Team **Ezugki** comprising of 41 students from the Department of Electrical and Electronics Engineering and Mechanical Engineering participated in **Saur Urja Vehicle contest (SUVC)** held at **Hindusthan College of Engineering and Technology Coimbatore**, conducted by the **RSTE (Refrangible Society of Technophile Engineers)**. The First level of contest was virtual round held at **Hindusthan College of Engineering and Technology Coimbatore** on **22.12.2018** in which they secured first place in the South zone. In continuation with that the **SUVC Finale** was held at the same venue at Coimbatore from **27.02.2019 to 03.03.2019**. In that they have cleared all the dynamic and static rounds which includes,

1. Design Round held on Day 1(26th Feb)
2. Technical Inspection held on Day 2(27th Feb)
3. Brake and acceleration test held on Day 3 (28th Feb)
4. Suspension traction test held on Day 4(1st March)
5. Auto-cross test held on Day 4(1st March)
6. Solar Endurance test held on Day 5(2nd March)
7. Final Endurance test held on Day 6(3rd March)



They also won the 2nd runner up in suspension traction test, social Buzz event and **won 3 awards**

1. **Best Team spirit Award-To the Whole Team**
2. **Best team leader award-To the Team Captain Mr.P.Prashanth**
3. **Faculty mentor award- To Mr.R.Vijay**



Saranathan College of Engineering Tiruchirapalli



This Team was mentored by,

1. Mr.R.Vijay,AP/EEE,
2. Mr.N.VijayasarithiAP/EEE,
3. Ms.R.S.Priyaadharshini AP/EEE &
4. Mr.Karthikeyan AP/Mech

LIST OF STUDENTS INVOLVED

S.NO	NAME	DEPARTMENT	YEAR	BATCH NO.
1	Sudhakar.H.M.	EEE	II	203103
2	Karunakaran.G	EEE	II	203039
3	Abinashkumar V.	EEE	II	203003
4	Syed Zameerbasha.S	EEE	II	203108
5	Pravin Kumar.N	EEE	II	203068
6	Raghavendran.S	EEE	II	203073
7	Siddharthan.M.A	EEE	III	193092
8	Dharshini.R	EEE	III	193019
9	Ganesan.S	EEE	III	193024
10	Sethulakshmanan.N	EEE	III	193129
11	Yuvasri.M	EEE	III	193123
12	Vignesh.S	EEE	II	193441



Saranathan College of Engineering Tiruchirapalli

13	Nidhish.T	EEE	III	193063
14	Ragul.C.R	EEE	III	193075
15	Pradeepa.L	EEE	III	193069
16	Suruthi.S	EEE	III	193106
17	Sudharson.N.A	EEE	III	193102
18	Vishnu Chander.R	EEE	III	193119
19	Booma.G	EEE	III	193014
20	Md.Faizal	EEE	IV	183057
21	Kumaran.R	EEE	III	193047
22	Prasanth.M	EEE	III	193071
23	Prasanth.P	EEE	IV	183074
24	Krishna Prasad.M	MECH	II	206056
25	Arun.A	MECH	II	206016
26	Ajay Arvind.A	MECH	II	206004
27	Ahamed Khabeer.M	MECH	II	206001
28	Arivaran K.V.	MECH	II	206014
29	Vinothkumar.V	MECH	III	196115
30	Prethepan.C	MECH	III	196129
31	Sabareeswaran.R	MECH	III	196081
32	Nishok.D.S	MECH	III	196058
33	Michael Harris.Y	MECH	III	196049
34	Kathaperumal.A	MECH	III	196035
35	Balaguru.N	MECH.	II	206021
36	Abishek.R	MECH	IV	186002
37	Gautaman.S	MECH	IV	186084
38	Prakash.R	MECH	IV	186084
39	Mohamed Sameer Irfaan.M.S	MECH	II	206062
40	Partha Sarathy	MECH	II	206068
41	Rohit	MECH	II	206082



Saranathan College of Engineering Tiruchirapalli

REPORT ON SUVC CONTEST

- **Team Name** : EZUGKI
- **Total No. Of Student Participants** : 41(24 EEE &17 Mechanical)
- **Virtual Round Venue & Date** : Hindustan College of Engineering & Technology,
Coimbatore (22-12-2018)
- **Virtual Round Ranking** : 1st Rank in SOUTH Zone out of 16 Teams
- **Final Round Venue & Date** : Hindustan College of Engineering & Technology,
Coimbatore From 27-02-2019 to 03-03-2019
- **Final Round Ranking** : 7th Rank all over INDIA out of 26 Teams
- **Awards & Prizes won** : 3 Awards
 - **Best Team spirit Award-To the Whole Team.**
 - **Best team leader award-To Mr.P.Prashanth (Final Year EEE).**
 - **Guru Dhuronachariya Award for mentoring -To Mr.R.Vijay AP/EEE.**
 - **Rs.4000 Cash for Runner Up in Suspension traction test.**
 - **Rs.1000 Gift Voucher for Social Buzz Event.**

Faculty Mentors :

- **Mr.R.Vijay,AP/EEE,**
- **Mr.N.VijayasarithiAP/EEE,**
- **Ms.R.S.Priyaadharshini AP/EEE &**
- **Mr.Karthikeyan AP/Mech**

SUBMITTED TO PRINCIPAL FOR APPROVAL

We have furnished below the list of proposed activities being planned through IEI student's chapter, Renewable energy club and Student association of EEE department.

S.no	Activities	schedule	Financial requirement from Management.
1	<p>IEI student's chapter</p> <p>A. Circuit design/circuit debugging contest.</p> <p>B. Quiz</p> <p>C. Connexion</p> <p>D. Oratory competition</p> <p>E. Essay writing</p> <p>F. One day workshop on PLC (value addition for final year students).</p>	<p><u>Engineers day celebration on 15.9.2018</u></p>	<p>NIL</p> <p>(Funding requirement will be managed from the registration fee to be collected from students and the previous fund available with us .(previous balance fund was handed over to office)).</p>
2	<p>Renewable energy club</p> <p>A. Short film contest-- for promoting importance of renewable energy and conservation of energy.</p> <p>B. Mini project competition</p>	<p>Third week of August. (Energy day celebration with Internal chief guest.)</p>	<p>Nil</p> <p>(Fund will be managed from IEI fund)</p>

SARANATHAN COLLEGE OF ENGINEERING. TRICHY-12
EEE DEPARTMENT.

10.07.2018

3	EEE association		
	A. Guest lecture (Technical)	First week of August	Rs 3000 for chief guest with local Pickup & drop.
	B. Paper presentation	Last week of September.	1500 (first prize-1000 & second prize-500)
	C. Guest lecture (Non-technical)	Last week of September	Rs 2500 for chief guest with local Pickup & drop

NOTE:

The students' contests and competitions, with regard to the various activities mentioned above, will be conducted in the evening after 4.45 PM.

The total financial assistance requested from the management for all the above activities is Rs 7000 with local logistics using college transport facility to pick up and drop chief guest.

Co-ordinators

Dr.S.Vijayalakshmi *Sueg* 11/7/18

Mr.M.Marimuthu *M. Marimuthu* 11/7/18.

[Signature]
HOD-EEE

[Signature]
13/7/18

SR-
13/7/18



SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
TIRUCHIRAPALLI - 620 012.



Date: 12.09.2018

Ref. No: SCE/EEE/IEI/2018-2019/01

To

The Principal
Saranathan College of Engineering
Trichy - 12

Through HOD/EEE,

Respected Sir,

Sub: Advance Amount Requisition -Engineers' Day Celebration - Reg.

Engineers' Day Celebration is planned on 15th September 2018 (Saturday) at Civil Seminar Hall between 10.30 AM to 12.30 PM. The approval for the same was granted on 13.07.2018. In connection to this, it is requested to sanction or grant of Rs. 15000/- (Fifteen thousand only) as advance for Chief Guest honorarium, Cash prize, and other miscellaneous expenses from IEI students chapter account.

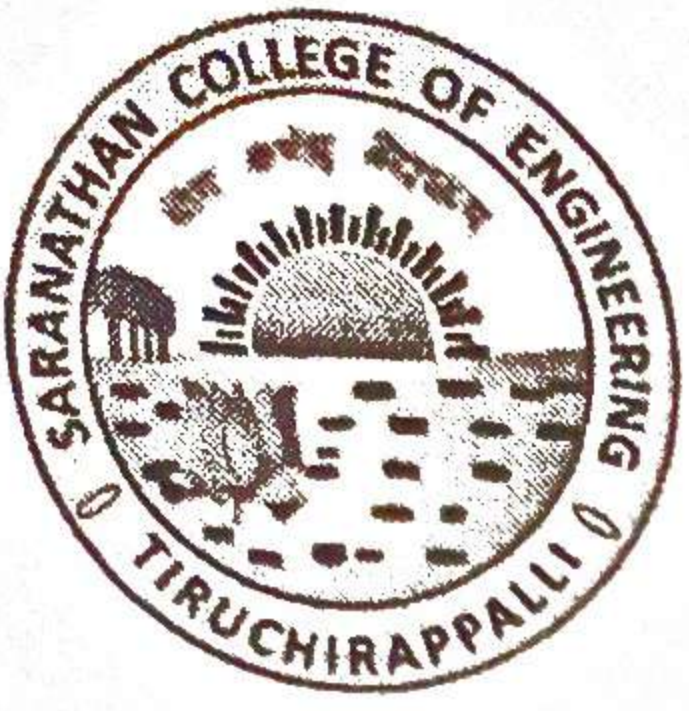
Thanking you,

Yours faithfully,

(Dr.S. Vijayalakshmi
Mr.M.Marimuthu)

C. K. K. 11/9/18

4/9/18



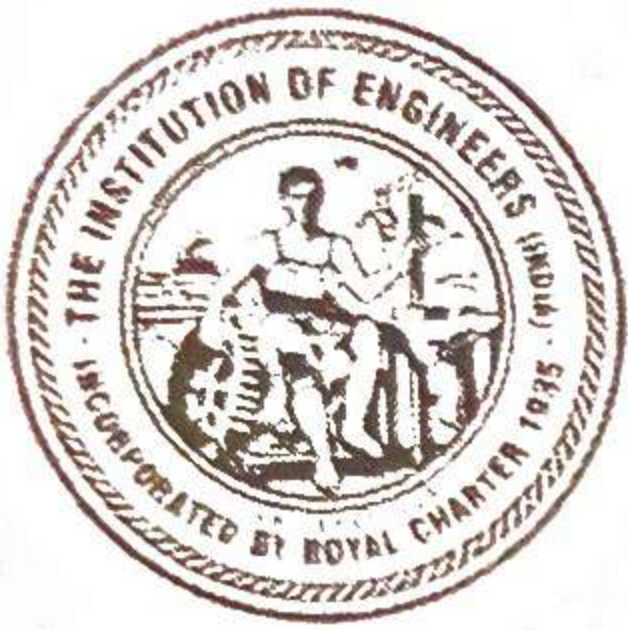
SARANATHAN COLLEGE OF ENGINEERING

Venkateswara Nagar , Panjappur

Tiruchirappali - 620 012



Department of **Electrical and Electronics Engineering**



IEI - STUDENTS' CHAPTER

Solicits your valuable presence for the

51st ENGINEERS' DAY *celebration*

Dr.Shriram K . Vasudevan , M.Tech. ,MBA. ,Ph.D

Asst Professor / CSE

Amrita School of Engineering , Coimbatore

**Will grace the occasion as chief guest and
distribute the prizes**

15th September 2018 - saturday

Venue - CIVIL Seminar Hall

Time - 10.30 am to 12.30 pm

Dr.D.Kalyankumar

Dr.S.Vijayalakshmi

Mr.M.Marimuthu

STAFF CO-ORDINATORS(EEE)

V.Krishnapriya

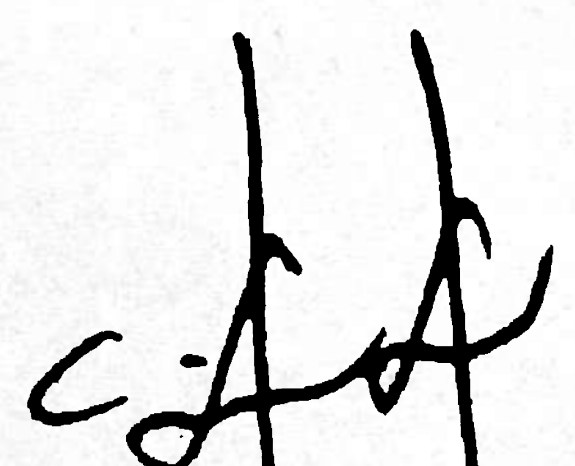
J.Prince Thomson

K.Priyadharshini

STUDENTS CO-ORDINATORS(EEE)

AGENDA

- INVOCATION
- WELCOME ADDRESS BY STUDENT PRESIDENT(IEI)
- LIGHTING KUTHU VILAKKU
- INTRODUCTION OF OFFICE BARRERS BY STUDENT SECRETARY(IEI)
- SPECIAL NOTE ON IEI
- FELICITATION ADDRESS BY PRINCIPAL
- CHIEF GUEST INTRODUCTION
- MOMENTO FOR CHIEF GUEST
- CHIEF GUEST ADDRESS
- PRIZE DISTRIBUTION
- VOTE OF THANKS BY STUDENT VICE –PREIDENT(IEI)
- NATIONAL ANTHEM


H.O.D. (IEI)
Sanathan College of Engg.,
Rishikapur - 009 012.

SARANATHAN COLLEGE OF ENGINEERING, Trichy - 12

IEI STUDENTS' CHAPTER

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

51ST ENGINEERS' DAY CELEBRATION Report

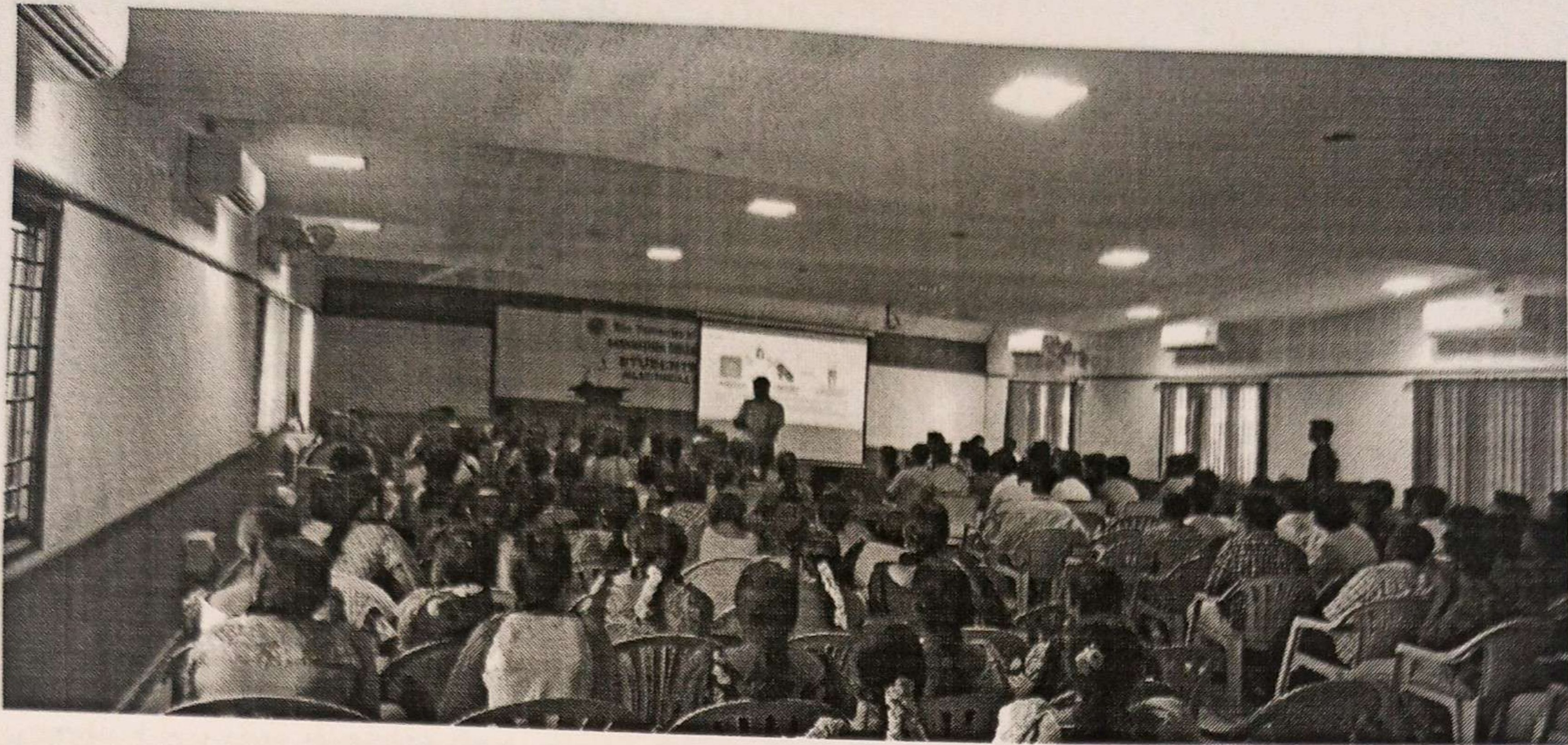
INAUGURATION



LIGHTING THE KUTHU VILAKKU



CHIEF GUEST ADDRESS



PRIZE DISTRIBUTION



VOTE OF THANKS



The Engineers' Day Celebration was convened by the Department of Electrical and Electronics Engineering at Saranathan college of Engineering, Trichy -12 on 15-09-2018 between 10.30 am and 12.30 pm. The students of pre-final year and all the Faculty members of of EEE took part in the celebration. Dr.Shriram.K.Vasudevan, Assistant professor/CSE, Amirta School of Engineering was the Chief Guest and gave the special Lecture as "Internet of Things". Ms.V.Krishnapriya, president, IEI students' chapter, welcomed the gathering, Flowers were tribute to Shri. Visweswarraya by the members in the dais, Ms.Priyadharshini.K, secretary, IEI students' chapter, addressed the Office bearers, Ms.Abhirami presented a special note on IEI, Dr.D. Valavan, Principal, Saranathan College of Engineering delivered felicitation address, Master.Vishwanathan.M gave the introduction about the chief guest and Master. Prince Thomson.J, Vice-President, IEI students' chapter delivered vote of thanks to the gathering. The winners of debate, quiz, elocution, essay writing, Machine Design Contest and connections were awarded by the dignitaries.

S.NO	CONTEST	PLACE	NAME OF THE WINNERS
1	DEBATE	FIRST	<ul style="list-style-type: none"> KARTHIKHAINI.K AKHILA.B GAYATHRI.N
		SECOND	<ul style="list-style-type: none"> ARAVINDH.V ANTONY ROZARIO GNANARAJ.B MOHAMMED NASRULLAH.N AADIMAATHAVAN
		THIRD	<ul style="list-style-type: none"> VIJITHRA.N PAVITHRASHRI.S PRASHANTHINI.S SWETHA GAYATHRI.S
2	TECHNICAL QUIZ	FIRST	<ul style="list-style-type: none"> HARITHA.R BHAVADHARANI.P
		SECOND	<ul style="list-style-type: none"> INDHU.R KOWSALYA.S
		THIRD	<ul style="list-style-type: none"> HARIHARAN.S GANESAN.S
3	ELOCUTION	FIRST	SINDHU ROSHNI.R
		SECOND	INDHU.R
		THIRD	SRIMATHI.S
4	ESSAY WRITING	FIRST	SAJITHA NILOFER.S
		SECOND	MOHAMMED AADIL.J
		THIRD	SRIMATHI.S
5	CONNECTIONS	FIRST	<ul style="list-style-type: none"> HARITHA.R BHAVADHARANI.P
		SECOND	<ul style="list-style-type: none"> AARTHY.A BARJANA BEGAM.S
		THIRD	<ul style="list-style-type: none"> HARIHARAN.S GANESAN.S



SARANATHAN COLLEGE OF ENGINEERING

TRICHY - 12



Department of Electrical and Electronics Engineering

Certificate

This is to certify that

Manish. A. E

has won the Third Place in the

MINI PROJECT COMPETITION on 24-01-2018 at Saranathan College of Engineering.

Dr.D. Valavan
Dr.D. Valavan
(Principal)

Dr.C. Krishnakumar
Dr.C. Krishnakumar
(Head- Dept of EEE)

Dr.S. Vijayalakshmi
Dr.S. Vijayalakshmi
(Organizer)

Two day Workshop
on
Design of Micro Grid and Grid
Integration Issues of Distributed
Generation

06.03.19 – 07.03.19

REGISTRATION FORM

Name :
Age: Gender :
Qualification:
Designation:
Name of the Institution:

Department:
Address for the Communication:

Mobile number:
E-mail:
Cheque / DD No.:
Bank Name & Branch:

Date :

Signature of the Applicant

ORGANIZING COMMITTEE

Chief Patron : Shri S.RAVINDRAN, Secretary
Saranathan College of Engineering

Chairman : Dr.N.KUMARESAN, FIE.,
IE(I)-Tiruchirappalli Local Centre

Co-chairman : Dr.D.VALAVAN
Principal, Saranathan College of Engg.

Convener : Dr.C.KRISHNAKUMAR
Professor & Head /EEE
Saranathan College of Engineering.

Organizing Secretaries :

Er.A.Anand, MIE., Honorary Secretary
IE(I)-Tiruchirappalli Local Centre

Dr.S.VIJAYALAKSHMI, Associate Professor / EEE
Mr.M.MARIMUTHU, Assistant Professor / EEE
Saranathan College of Engineering

Coordinators :

Mr. P.Ram Prakash Asst. Prof/EEE
Ms. R.S. Priyaadharshini Asst. Prof/EEE
Saranathan College of Engineering

SEMINAR CONTENTS

- Integration issues of renewable energy in micro grid
- Demand side management in micro grid
 - Fault ride through schemes in grid connected wind and solar systems
 - Energy management systems in micro grid
 - Power quality issues in micro grid
 - Laboratory sessions on micro grid setup, grid connected PV system and dspace for converter control
 - Hands on training in DigSILENT & PSCAD Software
 - Issues in ship board micro grid systems

OUTCOMES

- At the end of the seminar, the participants will be able to
- Design a micro grid for rural areas and isolated areas from the grid.
 - Identify the issues of Renewable energy systems integration with main grid.

AN ISO 9001-2008 CERTIFIED ORGANIZATION
(Established in 1920, Incorporated by royal charter 1935)
“98 years of relentless journey towards Engineering
Advancement for Nation Building”

Two day Workshop
on
Design of Micro Grid and Grid
Integration Issues of
Distributed Generation

06.03.19 – 07.03.19

Organized by



The Institution of Engineers (India)
Tiruchirapalli local centre

Under the aegis of
Electrical Engineering Division (MLDB) of IEI

In association with
Department of Electrical and Electronics
Engineering (NBA Accredited)



Saranathan College of Engineering
(Approved by AICTE , New Delhi & Affiliated By Anna
University, Chennai) Venkateswara Nagar, Panjappur,
Tiruchirapalli-620012

ABOUT THE INSTITUTION OF ENGINEERS (INDIA)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform from which to share professional interest. IEI has membership strength of over 0.8 million. Established in 1920, with its headquarters at 8 Gokhale Road, Kolkata - 700020, IEI has served the engineering fraternity for over nine decades. In this period of time it has been inextricably linked with the history of modern-day engineering. In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded this honor. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from 121 Centres located across the country. The Institution has provides grant-in-aid to its members to conduct research and development on engineering subjects. IEI conducts Section A & B Examinations in different Engineering disciplines, the successful completion of which is recognized as equivalent to Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Govt. of India. Every year as many as 90,000 candidates appear for these exams.

ABOUT THE INSTITUTION OF ENGINEERS (INDIA), TLC

Tiruchirappalli Local Centre of the institution of Engineers (India) located in BHEL Campus. Tiruchirappalli was inaugurated in the year 1973. Technical lectures are being conducted every week covering all branches of engineering. The Local Centre has been conducting on an average one National Seminar/Convention/Workshop every year on subject like Computer, Coal Technology, Cad, Pollution control, Integrated Manufacturing, Information Technology, Process control in Industries, ERP, ISO 14000, OHSAS, Energy Conservation, Sustainable development, NBC 2005 etc. The Local Centre has close liaison with leading engineering organizations, professional Institutions in and around Tiruchirappalli in the conduct of Technical activities.

ABOUT THE COLLEGE

Saranathan College of Engineering was founded by philanthropist Vidya Seva Ratnam Shri.K.Santhanam, in the year 1998 and was named after the great educationist Prof. V. Saranathan. The campus is located on Trichy – Viralimalai – Madurai highway having an area of 21 acres with a built up area of 2,60,000 Sq.ft.. Seven U.G Programmes and Four P.G programmes are offered. Six eligible UG courses are NBA accredited, All the programmes are affiliated to the Anna University, Chennai, and have the approval of the AICTE, New Delhi.

ABOUT THE DEPARTMENT

Department of EEE was started in the year 1998. It is equipped with modern facilities besides conventional infrastructures. The department has well qualified experienced faculty, supporting staff and it is a recognized Research Centre by the Anna University. The department has received grants from central and state government organizations like MNRE, DRDO, CSIR, AICTE and TNSCST for carrying out research work and organizing National Conferences / Workshops / Seminars. The sheer hard work and enthusiasm of the faculty and students of the department has helped in making it as one of the best departments in the campus. There are about 25 Faculty members in the department. Among them six are Ph.D. holders and twelve are pursuing Ph.D.

RESOURCE PERSONS

1. Dr. S.Senthilkumar, Associate Professor, National Institute of Technology, Trichy
2. Er.S. Selvakumar, Project Specialist Engineer, ABB, Chennai
3. Dr. P.Sivakumar, Associate Professor, Rajalakshmi College of Engineering, Chennai

REGISTRATION FEE (PER PARTICIPANT)

CATEGORY	IEI Member	Non-IEI Member
Students & Research Scholars	Rs.600	Rs.700
Academicians	Rs.800	Rs..900
Industrial Persons	Rs.1000	Rs.1200

HOW TO APPLY

The participant should scan and send their duly filled Registration form to the Convener along with the Demand Draft drawn in favor of "THE PRINCIPAL, SARANATHAN COLLEGE OF ENGINEERING" payable at Trichy.

The Registration form in the prescribed format to reach us on or before **27-02-2019**.

For any other queries contact:
Dr.S.Vijayalakshmi – 9842138779
Prof.M.Marimuthu – 9003669677
E-mail: saraeedept@gmail.com

Report for The two day All India Workshop titled **“Design of Micro grid and Grid Integration Issues in Distributed Generation”**



Felicitation Address delivered by Dr.C.Krishnakumar, Convener, HOD/EEE, Saranathan College of Engineering during inaugural function

The two day All India Workshop titled **“Design of Micro grid and Grid Integration Issues in Distributed Generation”**, Under the sponsorship of Institution of Engineers(India), Kolkata was convened by the Department of Electrical and Electronics Engineering, Saranathan college of Engineering during 6th to 7th march 2019. Students, Faculty Members and Research scholars from Various Engineering Colleges and Industrial persons across the nation were participated in the workshop. Workshop started with inaugural function on 06.03.2019 at 09.30 A.M. **Dr.S.Thamizharasan, Associate professor/ EEE, Saranathan College of Engineering** welcomed the gathering. **Dr.C.KrishnaKumar, HOD/EEE, Saranathan College of Engineering** gave the felicitation address and highlighted the importance of Micro grid and effort involved in integration.The Guest of honour, **Dr.N.Kumaresan, Chairman, Institution of Engineers (India), Tiruchirappalli Local Centre** inaugurated the workshop by lighting the ceremonial lamps along with other dignitaries and delivered the inaugural address. The Chief Guest highlighted the importance of IEI events and the efficient teaching learning process.



Dr.N. Kumaresan, Professor/EEE, NITT - Chairman, IEI – TLC delivered the Inaugural Address

First session of the workshop was handled by **Dr.S.Senthilkumar, Associate professor/ EEE, National Institute of Technology, Trichy**. During the session, he explained Operation and Control of wind-driven Induction Generators Supplying Micro grids.

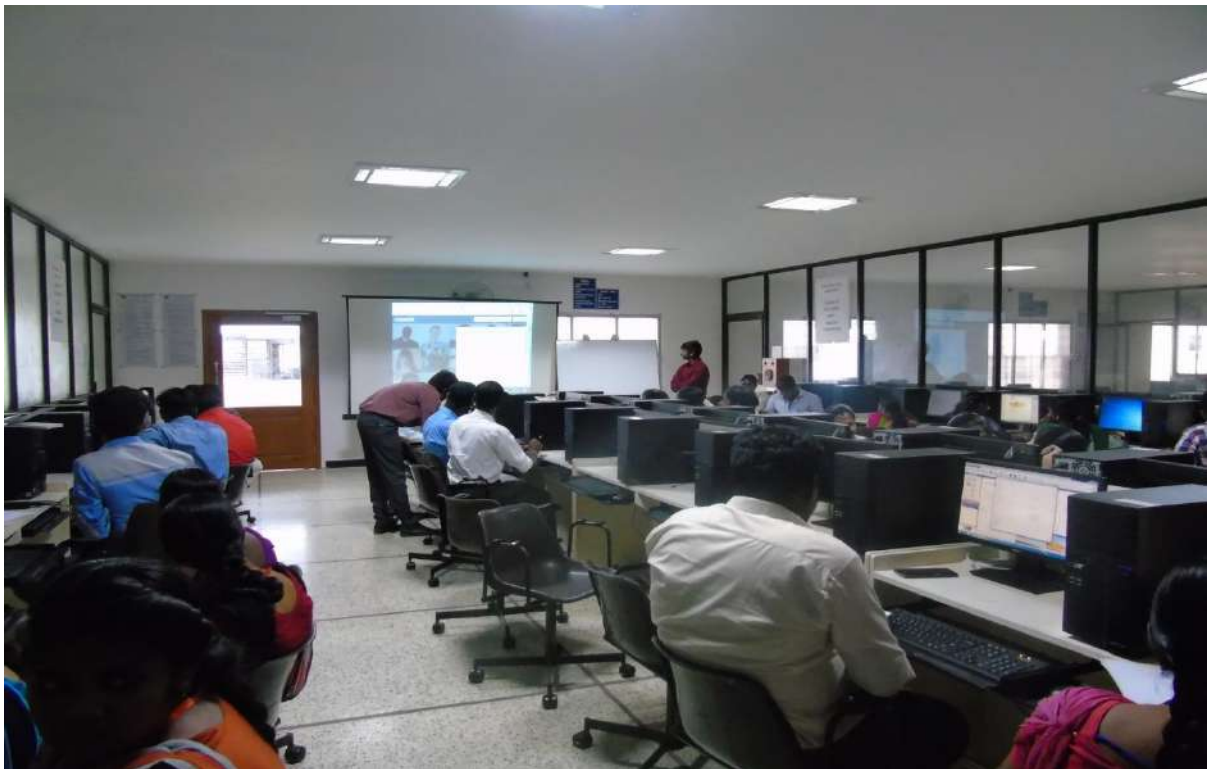


Dr.S.Senthilkumar, Associate Professor/EEE, NITT conducted Session-1 on 06.03.2019 (FN)



Dr. P. Sivakumar, Associate Professor, Rajalakshmi Engineering College – during the session
Dr. P. Sivakumar, Associate Professor, Rajalakshmi Engineering College, Chennai explained the Grid integration Issues of Distributed Generation System in the afternoon session of 06-03-2019. The participants interacted with the resource persons enthusiastically during the sessions.





Er.S.Selvakumar, Lead Engineer, ABB Chennai – during Session and Hands-on training


Er.S. Selvakumar, Lead Engineer, ABB Chennai conducted the sessions in the second day (07-03-2019) and explained Grid Connected Micro Grid Design using HOMER software. During the forenoon session, the participants were given an introduction about HOMER, Islanded Micro Grid Design and the Cycle Charging Algorithm and Load Following Algorithm in HOMER. The afternoon session was exclusively for hands on training using HOMER software. Sensitivity Analysis in HOMER, Multi Year Optimisation and Simulation of Brown field Projects with importing load profile were discussed in the afternoon session.



Dr.S.Dharmalingam, Former Chairman, IEI-TLC distributed certificate to the participant

The afternoon session followed by the valedictory session. **Dr.S. Rajkumar**, Asst. Prof/EEE, Saranathan College of Engineering welcomed the gathering, **Dr.S.Dharmalingam, Former Chairman, IEI – TLC**, delivered the valedictory address and distributed the certificates to the participants. **Mrs.Prabha**, Asst.Prof/EEE, Kings College of Engineering and a final year student from **MAM College of Engineering** gave the feedback about the sessions. The vote of thanks has been given by **Mr.R. Venugopal**, Asst. Professor/EEE, Saranathan College of Engineering. The workshop concluded by 4.45 pm with National Anthem.


H.O.D. (EEE)
Saranathan College of Engg.,
Trichirapalli - 620 012.


PRINCIPAL
Saranathan College of Engineering
TRICHY - 12,



The Institution Of Engineers (India) Tiruchirappalli Local Centre (TLC)



in association with

SARANATHAN COLLEGE OF ENGINEERING
Venkateshwara Nagar, Panjappur, Tiruchirappalli – 12

Two Day All India Workshop

on

**Design of Microgrid and Grid Integration Issues in
Distributed Generation**

organized by

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

**Chief guest
Dr.N.Kumaresan
Chairman, IEI –TLC**

You are cordially invited for the inaugural session

on

06. 03. 2019

Venue : Civil Seminar hall at 9:30 AM

**Dr.C.Krishnakumar
HOD/EEE**

**Dr.D.Valavan
Principal**

**Shri.S.Ravindran
Secretary**



The Institution Of Engineers (India) Tiruchirappalli Local Centre (TLC)



In association with

Saranathan College of Engineering Trichy - 12

Two Day All India Workshop

On

Design of Microgrid and Grid Integration Issues with Distributed Generation

organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING (NBA Accredited)

Chief guest

Dr.S.Dharmalingam
Former Chairman,IEI - TLC

You are cordially invited for the valedictory function

On

07. 03. 2019

Civil Seminar hall at 4:00 PM

Dr.C.Krishnakumar
HOD/EEE

Dr.D.Valavan
Principal

Shri.S.Ravindran
Secretary

PROGRAMME SCHEDULE

Day 1 (06.03.2019)

- ❖ 9.00 am– 9.30 am Registration
- ❖ 9.30 am –10.00 am Inaugural function
- ❖ 10.00 am– 11.30 am Technical Session 1
- ❖ 11.30 am– 11.45 am Tea Break
- ❖ 11.45 am – 1.15 pm Session I contd..
- ❖ 1.15 pm – 2.00 pm Lunch Break
- ❖ 2.00 pm – 3.15 pm Technical Session II
- ❖ 3.15pm – 3.30 pm Tea Break
- ❖ 3.30 pm – 4.45pm Session II contd..

Day 2 (07.03.2019)

- ❖ 09.15 am–11.15 am Technical Session 1
- ❖ 11.15 am –11.30 am Tea Break
- ❖ 11.30 am –1.15 pm Practical Session I
- ❖ 1.15 pm – 2.00 pm Lunch Break
- ❖ 2.00 pm – 3.15 pm Practical Session II
- ❖ 3.15pm – 3.30 pm Tea Break
- ❖ 3.30 pm – 4.00 pm Session II contd..
- ❖ 4.00 pm – 4.45 pm Valedictory function



All India Workshop Registration form

Date : 06.03.2019 & 07.03.2019 (Wednesday & Thursday)

Sl.No	Name of the participant	Institution Name	UG/PG/Ph.D Scholar/ Academician/ Industrial person	IEI membership No.	Mobile No	E-mail id	Amount paid	Signature
1	M TAMILARASAN	Indra Ganesan college of Engineering	Academician		8489181761	tamilarasan28898@gmail.com	700	[Signature]
2	M PRAVEEN KUMAR	Indra Ganesan college of Engineering	Academician		9944652915	praveensri936@gmail.com	700	[Signature]
3	SHAJI SEBASTIN	Industrial Electricity Consumers Consortium	Industrial Person		94471572323	shajisebastin43@gmail.com	1200	
4	NEENU SAKAIRA	Industrial Electricity Consumers Consortium	Industrial Person		8089003360	industrialconsumers@gmail.com	1000	
5	A GEETHA	Pondicherry Engineering College	Research Scholar	-	9786607347	geeth.eee@pec.edu	700	[Signature]
6	M JAYACHANDRAN	Pondicherry Engineering College	Research Scholar		9345932131	jayachandran.escet@pec.edu	700	[Signature]
7	K SIVANESHWARAN	Excel Polytechnic College	Academician	AMIS8401-7	9095286863	Sivaneshce@gmail.com	800	[Signature]
8	S KRISHNA MOORTHY	PWD (Retired)	Industrial Person	15356-3	9448722555	krishna.moorthy95@rediffmail.com	600	[Signature]
9	G SIVARAMAKRISHNAN	Electrical Engineering	Industrial Person	M-149841-4	9447752015	gskrishnan@gmail.com	1000	[Signature]
10	KANAKADURGA	SASTRA Deemed to be University	Research Scholar		9944236432	kanakadurgad@gmail.com	700	
11	DHAYALA SUNDARAM K	P.S.N.A. College of Engineering & Technology	PG Academician		9688023128	dhayalasundaram@gmail.com	700	[Signature]
12	A PRABHA	Kings Colege of Engineering	Research Scholar		9629180241	sriprabha823@gmail.com	700	[Signature]
13	S K LAKSHMI	Saranathan college of engineering	UG Scholar		9655745754	lakshcutepriess@gmail.com	600	[Signature]
14	M KEERTHANA	Saranathan college of engineering	UG Scholar		8973777362	keerthanamtkk18@gmail.com	600	[Signature]
15	P HARSHINI	Saranathan college of engineering	UG Scholar		9384503330	harshpalani25@gmail.com	600	[Signature]
16	S KEERTHI MALINI	Saranathan college of engineering	UG Scholar		9688730555	keerthimalini6611@gmail.com	600	[Signature]
17	M SHAHANAZ MARIYAM	Saranathan college of engineering	UG Scholar		9994648664	zareenanasrudeen@gmail.com	600	[Signature]
18	N SUGANYA	Saranathan college of engineering	UG Scholar		8111056690	aarthisuganya09@gmail.com	600	[Signature]
19	B SUBASHREE	Saranathan college of engineering	UG Scholar		9786635552	suba25081999@gmail.com	600	[Signature]
20	MEGADHARSHINI : S	Saranathan college of engineering	UG Scholar		7550345357	megadharshani@gmail.com	600	[Signature]
21	S PAVITHRA SHRI	Saranathan college of engineering	UG Scholar		9487788000	pavithrashripavi@gmail.com	600	[Signature]
22	K SUBALAKSHMI	Saranathan college of engineering	UG Scholar		7010829986	subalakshmi8981@gmail.com	600	[Signature]
23	V. SREEVIDHYA	G.V.P college of Engg for Women	Academician	M-161952-1	9603030828	sreevidhyanaadlan@gupea.org	800	[Signature]
24	M. BHARANTHARAN	MAM college of Engg	UG		7339336907	helliroykha30039@a	700	[Signature]
25	P. RABI ALLWYN	"	"		979477135	rabi.allwyn@gmail.com	"	[Signature]

P. RABI ALLWYN

X - Certificate issued.



All India Workshop Registration form

Date : 06.03.2019 & 07.03.2019 (Wednesday & Thursday)

Sl.No	Name of the participant	Institution Name	UG/PG/Ph.D Scholar/ Academician/ Industrial person	IEI membership No.	Mobile No	E-mail id	Amount paid	Signature
26	S. SALMAN KHAN	M.2.E.T Engg college, Trichy-07	UG		8751015698	sabzal3ahwan@gmail.com	700	[Signature]
27	D. Manohar	Gate Institute of Technology	Academician	-	949368963	manohar.intel@gmail.com	900	[Signature]
28	Dr. P. Soundarajan	PSNA College of Engg & Tech	Academician	-	994214022	Soundar_p_r@rediffmail.com	900	[Signature]
29	G. PRAVEENRAT	PSNA CET	ACADEMICIAN	-	9688408049	praveenrajm@gmail.com	900	[Signature]
30	K. KEERTHANA	MANICE	UG	-	978667522	keerthi000@gmail.com	700	[Signature]
31	[Name]							
	DR. B. ILANGO	KRCE	Academician	M 1628121	9443644638	gpr.sahara@gmail.com	800	[Signature]
33								
34								
35								
36								
37								
38								
39								
40								

[Signature]
H.O.D. (IPE)
 Saranathan College of Engg.,
 Trichy - 620 012.



The Institution of Engineers (India)
TIRUCHIRAPPALLI LOCAL CENTRE (TLC)



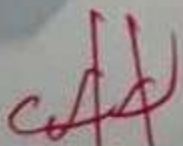
In association with

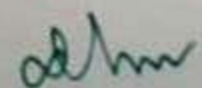
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SARANATHAN COLLEGE OF ENGINEERING


Two Day All India Workshop on
Design of Micro Grid and Grid Integration Issues in
Distributed Generation

This is to certify Mr./Ms. B. SUBASHREE
of SARANATHAN COLLEGE OF ENGINEERING

has participated in the two day all India workshop on "Design of Micro Grid and Grid Integration Issues in Distributed Generation" held during 6th -7th March 2019 conducted by the Institution of Engineers (India), Tiruchirappalli local centre in association with Department of Electrical and Electronics Engineering, Saranathan college of Engineering.


Dr. C. Krishnakumar
HOD/EEE, SCE


Dr. D. Valavan
Principal, SCE


Dr. N. Kumresan
Chairman, IEI-TLC

C
E
R
T
I
F
I
C
A
T
E

ABOUT THE COLLEGE

Saranathan College of Engineering (SCE) was founded by philanthropist "Vidya Seva Ratnam" Shri.K.Santhanam, in the year 1998 and was named after the great educationist Prof.V.Saranathan. The campus is spread over 40 acres with a built up area of 2,60,000sq.ft.. on Chennai – Madurai Expressway at Panjappur. SCE offers seven undergraduate programmes and four postgraduate programmes. All the programmes are affiliated to the Anna University, Chennai, and approved by AICTE, New Delhi. Six eligible undergraduate courses have been accredited by NBA.

ABOUT THE DEPARTMENT

Department of Electrical and Electronics Engineering was started in the year 1998 and has been accredited by NBA. The department offers four year UG programme and two year PG programme in Power Electronics and Drives. It is equipped with modern facilities besides conventional infrastructures. The department has 25 well qualified and experienced members of staff and it is Anna University recognized research centre. The department is working on the funded projects received from central and state government organizations like MNRE, DRDO, CSIR, AICTE and TNSCST. The sheer hard work and enthusiasm of the faculty and students of the department has helped in making it as one of the best departments in the campus.

ABOUT THE INSTITUTION OF ENGINEERS (INDIA)

Tiruchirappalli Local Centre of the institution of Engineers (India) located in BHEL Campus. Tiruchirappalli was inaugurated in the year 1973. Technical lectures are being conducted every week covering all branches of engineering. The Local Centre has been conducting on an average one National Seminar/Convention/Workshop every year on subject like Computer, Coal Technology, CAD, Pollution control, Integrated Manufacturing, Information Technology, Process control in Industries, ERP, ISO 14000, OHSAS, Energy Conservation, Sustainable development, NBC 2005 etc. The Local Centre has close liaison with leading engineering organizations, professional institutions in and around Tiruchirappalli in the conduct of Technical activities.

IMPORTANT DATES:

Full paper Submission	20-02-19
Date of Selection & intimation	28-02-19
Registration on or before	06-03-19

REGISTRATION FEE (Per Participant)

U.G/P.G Students	Rs.500/-
Academics/Research scholars	Rs.750/-
Delegates from industry	Rs.1000/-

(Registration fee includes conference kit, working lunch and refreshments)

Authors are requested to submit the full paper (not exceeding six pages) in IEEE format as MS Word file to the
Email ID: saraeeddept@gmail.com

Selected papers will be published in UGC approved/Scopus indexed journals with additional fee, plagiarism check and peer-review.

For further queries contact:
Dr.S.Vijayalakshmi – 9842138779
Prof.M.Marimuthu – 9003669677

More details of this conference are available at
www.saranathan.ac.in



2nd NATIONAL CONFERENCE ON CUTTING EDGE TECHNOLOGIES IN ELECTRICAL, COMMUNICATION AND SOFT COMPUTING TECHNIQUES (NCCEECS'19)

14th MARCH 2019

Organized by
**Department of Electrical and
Electronics Engineering
in association with
The Institution of Engineers (India)**



Saranathan College of Engineering

(Approved by AICTE, New Delhi)
(Affiliated by Anna University, Chennai)
Venkateswara Nagar, Panjappur,
Tiruchirappalli-620012

OBJECTIVES

While extending an invitation to all the scholars pursuing B.E, M.E., and PhD to all academic institutions, this conference aims to create a forum where researchers, academicians and professionals would be involving with renowned technical sessions for propagation of new concepts and technologies amongst the engineers in particular and the society at large. All the topics ranging from state of the art concepts for engineers to the recent trends would be discussed. Sharing of knowledge and expertise among the academicians and industrial personnel across the country will be a beneficial for all the participants and the student's community.

RESEARCH AREAS OF DISCUSSION

Adaptive/ Robust/ Optimal Control, Applied Electronics, Artificial Intelligence, Biomedical Instrumentation, Distributed Control Systems (DCS), DSP and FPGA based System, Electrical machines, Electronic Data Systems, Embedded System and RTOS, Flexible AC Transmission System, High Voltage Engineering, Individual Drivers and Control Power Systems and Simulations, Industrial Sensors/ Transducers/ Signal Processing, Power Quality, Modern Trends Electrical Engineering, Power Electronics and Drives, Power Plant Automation, Power system Engineering, Process Control Instrumentation Systems, Renewable energy, RFID Systems and Applications, Signal Processing, Smart grid, Soft Computing and Soft Sensing, Telemetry and Telecomm and Systems, VLSI Design Technology.

ORGANIZING COMMITTEE

Chief Patron : **Shri S.RAVINDRAN**
Secretary
Patron : **Dr.D.VALAVAN**
Principal
Convener : **Dr.C.KRISHNAKUMAR**
Professor & Head /EEE
Organizers : **Dr.S. VIJAYALAKSHMI**
Associate Professor / EEE
Prof.M. MARIMUTHU
Assistant Professor / EEE

HOW TO APPLY

The participant should scan and send their duly filled Registration form to the Convener along with the DD drawn in favour of "THE PRINCIPAL, SARANATHAN COLLEGE OF ENGINEERING" payable at Trichy.

The applicant should send their registration form in the prescribed format to reach us on or before

06-03-2019

(Note: Multiple Registration is permitted with single DD)

VISION OF THE DEPARTMENT

Will strive continuously in pursuit of creativity, innovations and ethics in the field of Electrical and Electronics Engineering to blossom into Centre of Excellence.

MISSION OF THE DEPARTMENT

- To impart total quality education through broader exposure, value additions and effective teaching learning process.
- To mould students to meet professional challenges and to become outstanding Engineers and Technocrats.
- To pursue research in the field of Electrical and Electronics Engineering to serve the needs of the industry, scientific community and society.

2nd National Conference

on

“CUTTING EDGE TECHNOLOGIES IN ELECTRICAL COMMUNICATION AND SOFT COMPUTING TECHNIQUES (NCCEECs' 19) ”

Name :
Year/ Department :
Organization :
Gender :
Age :
Educational Qualification :
Address for Communication :
Mobile No :
E-Mail ID :
Experience : Teaching : _____ Yrs
Others: _____ Yrs

PAYMENT DETAILS

Paper ID :
Paper Title :
DD No. & Date :
Name & Branch of Bank :

DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the Conference. If selected, I shall attend the Conference for the entire duration.

Place:

Date:

Signature of the participant



SARANATHAN COLLEGE OF ENGINEERING

Venkateshwara Nagar, Panjappur, Tiruchirappalli – 12

2nd National Conference

on

**Cutting Edge Technologies in
Electrical, Communication and Soft Computing
Techniques (NCCEECS'19)**

In association with

**14TH MARCH 2019
09:30 am**



**Venue : JS block
seminar hall**

The Institution Of Engineers (India), Kolkata

Will Preside Over the Function

Chief guest

Er.A.Sivaraman

Assistant Executive Engineer, TNEB

will deliver the Inaugural address

All are Cordially invited....

Dr.C.Krishnakumar
Prof & Head
Convener

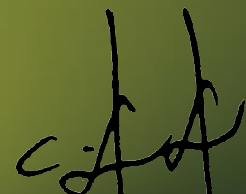
Dr.D.Valavan
Principal

Shri.S. Ravindran
Secretary

Agenda

PROGRAMME SCHEDULE

9.00 am– 9.45 am	Registration
9.45 am – 10.45 am	Inaugural function
10.45 am - 11.00 am	Tea Break
11.00 am - 1.30 pm	Presentation session
1.30 pm– 2.15 pm	Lunch
2.15 pm – 4.00 pm	Presentation Session
4.00 pm – 4.30 pm	Tea Break
4.30 pm – 5.00 pm	Valedictory function


H.O.D. (ECE)
Sannathan College of Engg.,
Tiruchirappalli - 620 012.

Saranathan College of Engineering, Trichy -12

Department of Electrical & Electronics Engineering

National Conference on “Cutting Edge Technologies on Electrical, Communication and Soft Computing Techniques (NCCEECS’19) - report

The Department of Electrical and Electronics Engineering, Saranathan College of Engineering, Trichy, organized a **One Day National level Conference on “Cutting Edge technologies on Electrical, Communication and Soft Computing techniques (NCCEECS’19) held on 14-03-2019** in association with **The Institution of Engineers (India), Kolkata**. Over 150 papers were received for the conference, 100 papers were shortlisted for the presentation after the peer review process. Around 300 students, research scholars and faculty members from various Engineering colleges were presented their research findings in the Conference.

Dr.S. Vijayalakshmi, Organizing Secretary and Associate professor of Electrical & Electronics Engineering Department welcomed the gathering. Mr.P.Ramesh Babu, Assistant Professor, EEE delivered the felicitation address. The Keynote speaker Er.V.Sivaraman, Assistant Executive Engineer, TNEB, inaugurated the National Conference by lighting ceremonial lamp along with other dignitaries on the dais. In his keynote address, he emphasized the recent trends and current scenario in Transmission and Distribution Systems. He also highlighted the integration of renewable energy systems with the grid. After the Inaugural function, paper presentation sessions were held at M.E Block seminar hall, JS Block seminar hall, ICE seminar hall and EEE seminar hall.

Dr.R.Rekha, Associate Professor, and Dr.M.Ganesan, Assistant Professor of Mechanical Engineering department were taken the role of juries in M.E block seminar hall in the morning session. Dr.G.Magesh, Assistant Professor and Ms.A.Mercy Vasan, Assistant Professor of Mechanical Engineering department were the judges for post lunch session. 25 papers were presented during these sessions.

In J.S block seminar hall, Dr.S.Thamizharasan, Associate Professor, and Ms.N.Gayathri, Assistant Professor of EEE department were taken the role of judges in the morning session. Mr.P.Ramesh babu, Assistant Professor and Mr. S.Ramprasath, Assistant Professor of EEE department were the judges for afternoon session. 25 papers were presented during these sessions.


In ICE seminar hall, Dr.K.Rajkumar, Assistant Professor, and Mr.P.K.Arun Kumar, Assistant Professor of EEE department have judged the paper presentation in the forenoon session. Dr.A.Gopikrishnan, Assistant Professor of Instrumentation & Control Engineering and

Mr. B. Paranthagan, Associate Professor of EEE department were the judges in the afternoon session. 25 papers were presented during these sessions.

Ms.C.Pearline Kamalini, Assistant Professor and Mr.N.Vijayasarithi, Assistant Professor of EEE department were taken the role of judges in EEE seminar hall in the morning session. Mr.T.Tamilarasan, Assistant Professor and Ms. K.Gaayathry, Assistant Professor of EEE department were the judges for afternoon session. 25 papers were presented during these sessions.

The judges presented the certificates to the participants at the end of the sessions. The conference gave the platform to the students and research scholars to share their research findings in the forum of veteran academicians and it received positive feedbacks from the participants.


H.O.D. (EEE)
Saranathan College of Engg.,
Trichirapalli - 620 012.


PRINCIPAL
Saranathan College of Engineering
TRICHY - 12,



Dignitaries on the Dias



Mr.P.Ramesh Babu, Assistant Professor, EEE, delivered felicitation address

SARANATHAN COLLEGE OF ENGINEERING

Panjapur, Tirchirappalli-620012

2nd National conference
on
**Cutting Edge technologies in Electrical,
Communication and Soft Computing techniques**

NCCEECS'19

14.03.2019

PROCEEDINGS

**DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING**



Contents

S. No	Title	Page No
1	Automatic identification of obstacles and crack sensing scheme in rail tracking system, ¹ Mr.S.Ramachandran, ² G.Kaviya, ³ S.Keerthana, ⁴ S.Sivaranjani, V.S.B Engineering College, Karur.	8
2	Automatic border detector with emergency control by interfacing GPS and GSM, ¹ Dr.K.Arun, ² S.Muthukumar, ³ S.Dhivya, ⁴ R.Gayathri, ⁵ A.Harshini, ⁶ A.Sowbarnica, V.S.B Engineering College, Karur.	8
3	Design and development of intelligent solar tree based Fuzzy PD plus I based Solar tracking Algorithm, ¹ Dr.G. Prabhakar, ² K.Ruba, ³ G. S. Bhoomamalleswari, ⁴ M. Nithiya, ⁵ R.Kaviya, V.S.B Engineering College, Karur.	8
4	Implementation of reduced inductor scheme in cascaded dual buck inverter using enhanced PI controller, ¹ Mr.M.Iyappan, ² D.Soundarya, ³ J.Ramya, ⁴ M.Thahirabanu, ⁵ V.Sneka, V.S.B Engineering College, Karur.	9
5	Power Generation using DC Driven Self-Excited Induction Generator Supplying DC Load, ¹ Vaishnavadevi A, ² Ramadas K, Alagappa College of Engineering & Technology, V.S.B Engineering College, Karur.	9
6	OLED: A Modern Display Technology, ¹ SALMANKHAN. S, MIET Engineering College, Trichy.	9
7	Automated Diagnosis of Acute Lymphoblastic Leukemia Using A Supervised Classifier, ¹ S. Hariprasath, ² T. Dharani, ³ M. Santhi, Saranathan College of Engineering, Trichy	10
8	Implementation of MVDC distribution system using quadratic boost converter, ¹ B. Paranthagan, ² A. Aarthy, ³ B. Akhila, ⁴ N. Gayathri, ⁵ C. Srilaxmi, Saranathan College of Engineering, Trichy.	10
9	Automatic Solar Based Grass Cutter, R.Balasubramanian, V. Kavya, R. Meenachi, S. Mahalakshmi, Saranathan College Of Engineering, Trichy.	10
10	Application of swarm robotics in underground mine monitoring system, ¹ B. Paranthagan, ² S. Aathreya, ³ K. Karthikhaini, ⁴ V. Keerthana, ⁵ V. Krishnapriya, Saranathan College of Engineering	11
11	A Broad Survey on Air Pollution Monitoring and Traffic Management System, ¹ N. Gayathri, ² N. Muthu Karuppan, ³ A.S. Leo Aldrinraj, ⁴ S. Madhanraj, ⁵ G. Manoranjan, Saranathan College of Engineering, Trichy.	11
12	Fuzzy logic controller using shunt active power filter for power quality improvement, ¹ S.Divya, ² V.Karthika, ³ P.Kiruthika, Final year EEE, Saranathan College of Engineering, Trichy	11
13	Voltage Lift technique based Interleaved boost converter, ¹ Z. Mohammed Faisal, ² T. Avinash, ³ E. Ajith, ⁴ S. Muthukumar, Final year EEE, Saranathan College of Engineering, Trichy	11
14	Design of modified flyback dc-dc converter, ¹ A.Dhivya Bharathi, ² S.Ishwarya, ³ V.R.kavipriya, ⁴ M.Muthulakshmi, Saranathan College of engineering, Trichy	12
15	Power factor improvement for Boost converter, ¹ K. ABINAYA, ² J. JANE MIRIAM, ³ K. KALAISELVI, ⁴ R. KIRTHIKA, Saranathan College of Engineering, Trichy	12
16	Power Quality Improvement using Series Active Power Filter, ¹ T. Abinaya, ² J. Eazhlarasi, ³ T. Hemadevi, Saranathan College of Engineering, Trichy -12	12
17	Design for 1KVA 1 ϕ Solar hybrid inverter, ¹ C. Krishnakumar, ² G.Kiruthika,	12

	Saranathan College of Engineering, Trichy-12	
18	Automatic fruit detection system using image processing, ¹ abirami.ra, ² janani.v, ³ muthumeenal.m, ⁴ poornima.m, ⁵ Deepa.b, Saranathan college of engineering, Trichy – 12.	13
19	IoT based Asset Tracking for Freight Movement, K. Revathi ¹ , V.Shepani ² , S.Sreedivya ³ , P.N Subbulakshmi ⁴ , A. Christy Arockia rani ⁵ , Saranathan college of Engineering, Trichy	13
20	Design of Cardiac Activity Monitoring Using Arduino, R.Seetharaman ¹ , K.Aishwarya ² , S.Gayathridevi ³ , K.Raashmi ⁴ , R.Reshma ⁴ , Saranathan College of engineering, Trichy – 12.	13
21	Experimentation of Coriolis flow meter using self sensing Electronics, Anu priyadarshini. C ¹ , Gayathiri. T.J ² , Nagamma Begam. M ³ , Sri Priya. R ⁴ , Shanmugavalli. M ⁵ , Saranathan College of Engineering, Trichy – 12.	14
22	DESIGN AND SIMULATION OF CORIOLIS FLOW METER, ¹ Dhanalakshmi.S, ² Harilakshmi.M, ³ Mohanaambiga.S, ⁴ Renuga.R, ⁵ Shanmugavalli.M, Saranathan College of Engineering, Trichy – 12	14
23	MEMS based Pressure Sensor to Measure Blood Pressure, ¹ Saikamala. C.M, ² Santhoshini. R, ³ Swetha. S, ⁴ Christy Arockia Rani. A, ⁵ Shanmugavalli. M Saranathan College of Engineering, Trichy -12	14
24	Decision making for critical run outs in cricket using LabVIEW, ¹ Ajay G, ² Azhagu vigna rajan M, ³ Jagadeesan R, ⁴ Mohamed pharsath M, ⁵ Gopi Krishnan.A, Saranathan College of Engineering, Trichy-12.	14
25	Design of PID controller Simulation for MULTI INPUT MULTI OUTPUT System using Control Techniques, Thirumurugan.P ¹ , G.Hariharren ² , N.Saminathan ³ , C.T.Muthalagappan ⁴ , M.Arjun ⁵ , Saranathan College of Engineering, Trichy-12	15
26	Level and Pneumatic Process Monitoring and Controlling using LabVIEW ¹ P.Thirumurugan, ² Arshad Alam Mohammed .M, ³ Karthikeyan.S, ⁴ Marimuthu.D, ⁵ Vijay.P.S, Saranathan College of Engineering, Trichy-12	15
27	Distance measurement and obstacle avoiding using ultrasonic sensor and ARDUINO, ¹ Seetharaman, ² Barathwaj R, ³ Ganeshkumar S, ⁴ Ganeshkumar A, ⁵ Karthikeyan S, Saranathan College of Engineering, Trichy-12	15
28	Privy pristine and salvage, Guru Venkatesh K, Shanawaz SN, SriramS, ThayumanR, SathishkumarM, Saranathan College of Engineering, Trichy -12	16
29	Vocal cranium casing using Microcontroller, V.Mohan, B.SuryaKumar, S.Riyazdeen, M.Sathis Kumar, Saranathan College of Engineering, Trichy-12	16
30	Processing and Evaluation of Polymer Matrix Composites – Review, ¹ S.Mukundh, ² D.Saravana kumar, ³ A.Prabhakaran, ⁴ P.V.Rajesh, ⁵ M. Rayees ahmed, Saranathan college of Engineering, Trichy – 12	16
31	Biocompatible materials and processing techniques for developing artificial bone scaffolds – review, ¹ Ranjith Raj. A, ² Gowtham.K, ³ Adil Ahamed. H, ⁴ Gaudham, Saranathan College of Engineering, Trichy – 12	17
32	Experimental evaluation of hybrid polymer matrix composites- a review K. Jaya kumar ¹ , S. Saravana mani ² , S. Sheik aasif ³ , A. Vignesh ⁴ , P.V. Rajesh ⁵ , Saranathan College of Engineering, Trichy-12	17
33	CFD analyze of fluid dynamic in cyclone separator, A. Mercy Vasan ¹ , P.Amirthakumar ² , S.Ayyappan ³ , B.Gokul ⁴ , M.Kannadasan ⁵ , Saranathan College of Engineering. Trichy – 12	17
34	A Research Review in Friction Welding Process, ¹ Karthikeyan Sambantham,	18

	² Naveen Christopher, ³ Rakesh Angaraj, ⁴ Baskar Neelakandan, ⁵ Ganesan Manickam, ⁶ Robinson Wilson, Saranathan college of Engineering, Trichy -12	
35	Strain analysis of crank shaft with Internet of things (IoT), ¹ A.SARAVANAN, ² S.ARAVINTHAN, ³ L.ALLAN LALWLEY, ⁴ S.JAYAKUMAR, ⁵ N.ARAVINDAN, Saranathan College of Engineering Trichy -12	18
36	Effect of process parameters in CNC Turning Operation: A Review, ¹ U.Mohamed Faizal, ² X.Stephen Raja, ³ S.Naveen Kumar, ⁴ R.Kumar, ⁵ R.Ruban, Saranathan College of Engineering, Trichy -12	18
37	Exhaust flow analysis and experimental investigation of catalytic converter using CFD and ANN, ¹ S.Sathya narayanan, ² A.Manavalan, ³ J.Manirathinam, ⁴ P.Naveen, ⁵ S.Manivel, Saranathan College of Engineering, Trichy-12	19
38	Design and analysis of engine cylinder fin, ¹ Paramaguru, ² S.Mathu Deepan, ³ A. Roy Gnana Dhanaraj, ⁴ A. Vigneshwaran, ⁵ R.Vijai, Saranathan College of Engineering, Trichy – 12	19
39	Application of Jute Fibre & ZrO ₂ reinforcement with Epoxy Resin in Helmet T.Allwin Sam ¹ , G.Deva Viswa ² , R.Hariprasath ³ , R.K.Madhumithran ⁴ P.Vigneshwar ⁵ , Saranathan College of Engineering, Trichy -12	19
40	Optimization of process parameters in friction stir welding of two dissimilar grades of aluminium matrix composites, M.Muralidharan ¹ , S.R.Shubathradhevi ² , K.Prakash ³ , M.Ajithkumar ⁴ , ⁵ P.V.Rajesh, ⁶ M.Ganesan, ⁷ N.Baskar, Saranathan College of Engineering, Trichy – 12	20
41	Smart Accident Avoidance system based on Alcohol and Heart Beat Detection, ¹ S. Muthu kumar, ² S. Sanjay, ³ P.M. Karthee, ⁴ M. Mohanlal, ⁵ C.S. Tiruajan, V.S.B Engineering college, Karur	20
42	Aluminium and water as a fuel cell based Electric Vehicle, ¹ Umamaheswari, ² S.Subidsha, ³ M.Charumathi, ⁴ K.Vaishali, ⁵ S.Sowbarniga, V.S.B. Engineering College, Karur	20
43	Stochastic Optimization Technique for Digital Image Watermarking, Dr.Saju Subramanian ¹ , Dr.V. Venkatachalam ² , Dr.G.Thirugnanam ³ , Erode Sengundhar Engineering College, Erode.	21
44	Optimization of process parameters in friction stir welding of two dissimilar grades of aluminium matrix composites, M.Muralidharan ¹ , S.R.Shubathradhevi ² , K.Prakash ³ , M.Ajithkumar ⁴ , P.V.Rajesh ⁵ , M.Ganesan ⁶ , N.Baskar ⁷ , Saranathan College of Engineering, Trichy – 12.	21
45	Solar energy with dual axes tracking powered automatic home light control ¹ Dr.S.Vijayalakshmi, ² J.Sherrinbanu, ³ SK.Lakshmi, Saranathan College Of Engineering, Trich-12	21
46	Analysis of SEPIC converter for renewable energy application using proteus and MatLAB, ¹ Dr.S.Vijayalakshmi, ² J.Sherrinbanu, ³ SK.Lakshmi, Saranathan College Of Engineering, Trich-12	22
47	Third Eye-Low Cost Smart Cane for Visually Impaired person, ¹ Mythili S, ² Prasanthini S, ³ Shanthi L, ⁴ Vijithra N, Saranathan College of Engineering, Trichy – 12	22
48	Optical character recognition based text to braille converter, ¹ Aswanth B, ² Ajith Arumugam A, ³ Mohamed Asif K, ⁴ Pradeep Kumar M, ⁵ Tamilarasan T, Saranathan College of Engineering, Trichy-12	22
49	Autonomous bio-bot for green house cultivation, ¹ Raghavan.S.S, ² Vishal.N, ³ Swaminathan.S, Saranathan College of Engineering, Trichy-12	23

50	Strain Analysis of Knuckle Joint Using Internet of Things: Review, ¹ A.Saravanan, ² A.Vembarasan, ³ S. Pasupathi, ⁴ M.Vinoth, ⁵ S.Suryajothi, Saranathan College of Engineering, Trichy – 12	23
51	Experimental Analysis of using Various Steel Grades of a Ball Pin of an Automobile Ball Joint Assembly, ¹ S. Pradeesh, ² K.B. Vijayendra, ³ D. Thamotaran, ⁴ J. Sivasubramanian, ⁵ K. Thiyagarajan, Saranathan College of Engineering, Trichy -12	23
52	IoT based remote monitoring of filament flow and temperature in a 3D printer by retrofitting, ¹ P.V.Rajesh, ² J.Mohamed Azarudeen, ³ Yathinder Krishna, ⁴ M.Thirunavukkarasu, ⁵ S.Senthilkumar, Saranathan College of Engineering, Trichy -12	24
53	Review on ceramic composite material, ¹ P.JOTHI PALAVESAM, ² R.MOHANA PRIYA, ³ M.SHANMATHI, ⁴ S.SHARAN, Saranathan College of Engineering, Trichy – 12	24
54	Design and optimisation of flow analysis on catalytic converter by using cfd software, ¹ A.Santhana bharathi, ² V.Muralitharan, ³ A.Balakrishnan, ⁴ R.Ramankanth, ⁵ K.Praveen, ⁶ S.Sathyanarayanan, Saranathan College of Engineering, Trichy -12	24
55	Usage Of Ceramic Matrix Composites In Bio Medical Applications, ¹ P.V. Rajesh, ² S. Pradeep, ³ R. Prakash, ⁴ C. Venkataraman, ⁵ K. Vignesh, ¹ Asst. Prof/Mechanical, Saranathan College of Engineering, Trichy – 12	25
56	Design ,fabrication and automation of Wheelchair for quadriplegic patients using MEMS sensor:Review article, ¹ K. Amarnath, ² Ashwin R, ³ Avinesh Balaji K, ⁴ Harish S, ⁵ Eddie Lucas S, Saranathan College of Engineering, Trichy -12	25
57	A security model for electronic health records in healthcare cloud using fog computing, ¹ R.Roshan Joshua, ² G.Raja, JJ College of Engineering and Technology, Trichy	25
58	XOR based visual cryptography and LSB method or secured communication ¹ K. Saranya, ² K. Saravanan, JJ college of Engineering and Technology, Trichy	26
59	Sentiment analysis for product recommendation system using Hybrid learning Algorithm, ¹ S.DorothyInfanta, P.Chellammal, ¹ M.E., Student/CSE, JJ College of Engineering and Technology, Trichy	26
60	Sewage and drainage inspection using integrated technologies, K.Nandhitha ¹ , V.Gayathri ² , A.Abinaya ² , R.Dhayabaran ¹ , ¹ Assistant Professor/ECE, V.S.B. Engineering College, Karur	27
61	Recent Advances in Turning Operation : Review, ¹ N. Sathiya Narayanan, ² M. Ganesan, ³ S. Nanthakumaran, ⁴ N. Baskar, ⁵ S. Nagaraj, ⁶ G. Nagababu, ⁷ A.L. Vaithilingam, Saranathan College of Engineering, Trichy -12	27
62	Experimental Investigation and Comparative Analysis of Al-6061 Using L9 Orthogonal Array, ¹ S.Bilal Ahamed, ² N.Baskar, ³ R.Lavanyan, ⁴ M. Ganesan, ⁵ T.Ranjith, Saranathan College of Engineering, Trichy -12	27
63	AGRIBOT- Farmer's friend, Pradeep Raaj.K ¹ , Prasanth.P ² , Soorya.B ³ , Hari Prakash.R ⁴ , Saranathan College of Engineering, Trichy – 12	28
64	Performance Evaluation of Asymmetric Multi-level Inverter Setup for Remote Area Power applications, ¹ U.Aravindhan, ² R.Dhineshkumar, ³ M.S.Ajay, Saranathan College of Engineering, Trichy -12	28
65	Effect of Process Parameters in Drilling : A Review, ¹ Abdul Sathar Khan. A, ² Manimaran. S, ³ Gangeshwari. S, ⁴ Baskar. N, ⁵ Harish. R, ⁶ Ganesan. M,	28

	Mechanical, Saranathan College of Engineering, Trichy – 12	
66	Model and Fruition of PID controller referring to Double Frequency Boost Converter, A.P.AyishaBanu ¹ , M.Marimuthu ² , Saranathan College of Engineering, Trichy	29
67	Unmanned railway gate control system, ¹ Ranjith Kumar.A, ² Sathish Kumar.S, ³ Mahendran.S, ⁴ Aravinthan.M, Saranathan College of Engineering, Trichy	29
68	A Bidirectional Switch Based High Efficiency push-pull Converter for Photovoltaic Applications, K.Devika ¹ , R.Rajthilak ² , Mookambigai College of Engineering, Keeranur	29
69	Hand gesture to voice conversion system for speech-hearing impaired people, ¹ Mr R.Satheesh, ² Ms R.Ramya Prabha, ³ Ms L.Rekha, ⁴ Ms S.Sajitha Nilofer , ⁵ Ms S.Srimathi, Saranathan College of Engineering, Trichy – 12	30
70	Application of Swarm Robotics in underground mine monitoring system, ¹ Aathreya S, ² Krishnapriya V, ³ Keerthana V, ⁴ Karthikhaini K , ⁵ Mr.Paranthagan B, Saranathan College of Engineering, Trichy – 12	30
71	Performance Evaluation of Asymmetric Multi-level Inverter Setup for Remote Area Power applications, ¹ U.Aravindhan, ² R.Dhineshkumar, ³ M.S.Ajay, Saranathan College of Engineering, Trichy – 12	30
72	Real time enhancement of power factor using smart meter, ¹ Naveen Kumar.K, ² Satheesh.R, ³ Rahul Mallya, Saranathan College of Engineering, Trichy -12	31
73	Secure File In-Transit and At-rest on Cloud using Cryptographic Techniques ¹ Dr.Sumathi.R., ² Manthra.J ³ Nandini.M, ⁴ Niveda.M, ⁵ Shobana.G, Saranathan College of Engineering, Trichy -12	31
74	Design and Implementation of a Bidirectional DC/DC Converter for BESS Oprations, T.SRIMATHI ¹ , M.AROCKIASAMY ² , Mookambigai College of Engineering, Keeranur	31
75	DC-DC Step up Converter with Coupled Inductor based Cockroft Walton Multiplier, ¹ K. Gaayathry ² B. Pooja Sri, ³ K. Priyadharshini, ⁴ R. Sindhu Roshni, ¹ Asst. Prof/EEE, Saranathan College of Engineering, Trichy - 12	32
76	Digital performance analyzer of DC machines, Dineshkumar.V ^[1] , Mohamed aadil. J ^[2] , Aaditya vignesh.G ^[3] , Chenduran. A ^[4] , Ramesh babu. P ^[5] , Saranathan College of Engineering, Trichy -12	32
77	A Single-phase Boost Inverter with Switched Capacitor, Gaayathry.K ¹ , Nivetha.R ² , Swarna Gowri.M ³ , Swetha.S ⁴ , Vishali.G ⁵ , Saranathan College Of Engineering, Trichy -12.	32
78	Adapted quasi -z-source inverter torque Ripple minimization for a PMSM using Sliding mode control, ¹ K. ARUN KUMARAN, ² A.ANBU SELVI, ³ H.MAHARIBATH NISHA, M.I.E.T Engineering College, Trichy	33
79	Design of high power factor rectifier based on luo converter topology, S.Kiruthiga ^[1] , P.RameshBabu ^[2] , Dr.C.KrishnaKumar ^[3] , Saranathan College of Engineering, Trichy	33
80	Active power factor correction using pwm rectifiers for online ups systems ¹ S. Sivasubramanian, ² K. Surendran, ³ RM. Pavinthan, ⁴ A. Ajithkumar, ⁵ S.Ramprasath, Saranathan College of Engineering, Trichy -12	33
81	DC-DC boost converter with multiple output for electric vehicle, ¹ Srinivasan SB, ² Shahid hassan T, ³ Vinoth raj R, ⁴ Vijayasarithi N, Saranathan College of Engineering, Trichy – 12	33
82	Bio-metric based voting machine, K.SHYAM SUNDAR ¹ S.RUKNUDEEN ²	34

	R.NAGA SURYA ³ R.SATHISH ⁴ and M.SHANMUGAVALLI ⁵ , Saranathan College of Engineering, Trichy -12	
83	Generation of power from moving train, A.SENTHAMARA KANNAN ¹ , M.Gayathri ² , R.Amreen Sulthana Begam ³ , C.Ibrahim ⁴ , M.A.M.S.E, Trichy.	34
84	Design and simulation of Boost Converter with Extended Cell for Photovoltaic application, ¹ R. Johnsi Rani, ² N. Vijayasarithi, ³ S. Ramprasath, Saranathan College of Engineering, Trichy -12	34
85	Secure data using aes algorithm for iot device, P.B.Arunprasad ¹ , .Fahima Afrin ² , P.Rekha ³ , N.Vinothini ⁴ , D.Vishnupriya ⁵ , Saranathan College of Engineering, Trichy - 12	35
86	Design and implementation of high power factor corrected buck led driver, K.S.Anisha Farhin ¹ , P.Ramesh Babu ² , Saranathan College of Engineering, Trichy -12	35
87	Multi-level Boost Converter for DC Micro grid Applications, ¹ M. Marimuthu, ² S. Pavithra Shri, ³ K. Subalakshmi, ⁴ S. Swetha, ⁵ S. Tharanya, Saranathan College of Engineering, Trichy-12.	35
88	Critical run outs monitoring system in cricket using LabVIEW, ¹ Ajay. G, ² Azhagi Vigna rajan, ³ Jagadeesan R, ⁴ Mohamedpharasath M, ⁵ A. Gopikrishnan, Saranathan College of Engineering, Trichy -12	36
89	H ₂ O FORECASTING, Boopathinavaneethan.S ¹ , Barath.R ² , Bharanidharan M.S ³ , Lakshmi Narayanan.T ⁴ , Rameshbabu.P ⁵ , Saranathan College of Engineering, Trichy -12	36
90	An universal pwm controller for power converters using time ratio recursion algorithm –FPGA implementation, ¹ S. THAMIZHARASAN, ² C.KRISHNA KUMAR, ³ PARVATHI.K, ⁴ PRATHEEBA.R, ⁵ UDHAYANIRANJANA.V, Saranathan College of Engineering, Trichy – 12	36
91	Error Detection and Correction between the router in NOC using Decimal Matrix Code, ¹ Nurul Mubeen K, ² Latha N, MIET Engineering College, Trichy	37
92	Vulcopter, ¹ S. Vijayalakshmi, ² B. Cyril Rosario, ³ P.A. Arun prasath, ⁴ Vignesh V ⁵ Kishore Kumar S, Saranathan College of Engineering, Trichy -12	37

JS

Saranathan College of Engineering
2nd National Conference (NCEECS'19)

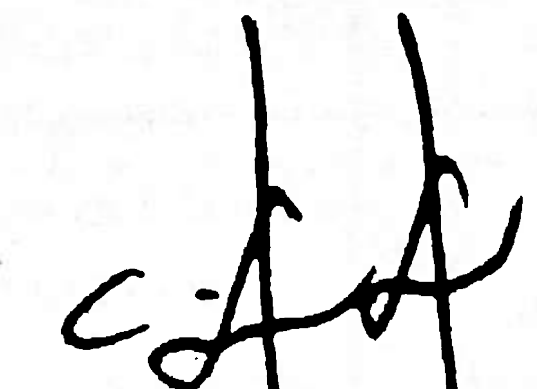
Registration Form

Sl.NO	Name	Title	Institution	Contact No	E-mail	Amount Paid	Sign
1	Vaishnavadevi A	Power Generation using DC Driven Self-Excited Induction Generator Supplying DC Load	Alagappa college of Engineering and Technology		vaishu.a.1995@gmail.com		<i>[Signature]</i>
2	G.Deepak	DESIGN OF MULTIBAND MICROSTRIP PATCH ANTENNA FOR SMART PHONES	Velalar College of Engineering and Technology		deepakganes14@gmail.com		<i>[Signature]</i>
3	SALMANKHAN. S	OLED: A Modern Display Technology	MIET Engineering College		<salsalsalman@gmail.com>		<i>[Signature]</i>
4	Nurul Mubeen K	Error Detection and Correction between the router in NOC using Decimal Matrix Code	M.I.E.T Engineering College		<nurulmubeen@gmail.com>	500	<i>[Signature]</i>
5	S.Suganthi	Automatic Fertigation System Using Android of Things (AoT)	AKT Memorial Colleg of Engineering and Technology		<suganthisubramani ece310@gmail.com>		<i>[Signature]</i>
6	T Srimathi	Design & Implementation of a BidirectionalDC/DC Converter for BESS Operations				500	<i>[Signature]</i>
7	G.Srimathi	A digital pwm strategy for single phase five level MLI using equal area criterion	Saranathan College of Engineering		<srmatikutty@gmail.com>	500	<i>[Signature]</i>
8	Pooja Sri B,Priyadharshini K, Sindhu Roshni R	DC-DC Step up Converter with Coupled inductor based on Cockroft Walton Multiplier	Saranathan College of Engineering			1000	<i>[Signature]</i>
9	Paravthi K, Pratheeba R, Udhayaniranjan V	An Universal PWM Controller For Power Converters using Time Ratio	Saranathan College of Engineering		vun0012@gmail.com	500	<i>[Signature]</i>
10	G Princy Snutha , A Swathi, G.Yamuna, R.Tharani	Solar Powered DC Electric heating Stove	Saranathan College of Engineering			1000	<i>[Signature]</i>
11	Nivetha R,Swarnagowri M, Swetha S, Vishali G	A Single- Phase Boost Inverter with Switched Capacitor	Saranathan College of Engineering			1000	<i>[Signature]</i>
12	U Saranya,M.Nivetha, G.Selvarani	Design and Implementation of double frequency boost converter using MPPT	Saranathan College of Engineering		<n.udhayakumarsdv .12@gmail.com>	1000	<i>[Signature]</i>
13	Raghavan s,Swaminathan S, Vishal N	Autonomous Bio Bot for Green House Cu	Saranathan College of Engineering			1000	<i>[Signature]</i>
14	R Ramya Prabha, L.Rekha, S.Sajitha Nilofer, S.Srimathi	Hand Gesture to Voice Conversion System for Speech - Hearing Impaired	Saranathan College of Engineering		<sajifamidha97@gmail.com>	500	<i>[Signature]</i>
15	S Pavithra Shri, K Subalakshmi,S Swetha, S Tharanva	Multi-Level Boost Converter for DC Microgrid Application	Saranathan College of Engineering		<swethassivamani@gmail.com>	1000	<i>[Signature]</i>

Lunch Break

16	J Prince Thomson, S Nanda, M R Siva Shankar	DESIGN AND DEVELOPMENT OF REDUCED COUNT MULTILEVEL	Saranathan College of Engineering		<princethomson32@gmail.com>	500	<i>[Signature]</i>
17	BARJANA BEGAMS ,DHIVYA. A ,MAHALAKSHMI C ,MERLIN ANTONITA. X	Speed Control of 3 phase Induction Motor using SPWM Technique	Saranathan College of Engineering			500	<i>[Signature]</i>
18	AADITHYA VIGNESH .G., DINESHKUMAR. V , CHENDURAN. A ,MOHAMED AADIL. J	Digital Performance Analyzer of DC Machines	Saranathan College of Engineering			1000	<i>[Signature]</i>
19	ARUN PRASATH.P.A , CYRIL ROZARIO.B , KISHORE KUMAR. S , VIGNESH. V	VUL Copter	Saranathan College of Engineering			1000	<i>[Signature]</i>
20	ABINAYA. K ,JANE MIRIAM.J KALAISELVI K KIRTHIKA.R	Power Factor Improvement for Boost Converter	Saranathan College of Engineering			1000	<i>[Signature]</i>
21	AJAY .M.S. ARAVINDAN. U ,DHINESH KUMAR. R MAHENDARAN.P	Performance Evaluation of Asymmetric Multilevel Inverter for Renewable Energy Applications	Saranathan College of Engineering			1000	<i>[Signature]</i>
22	AVINASH.T, MOHAMMED FAISAL. Z. , MUTHU KUMARS ,AJITH. E	Voltage Lift Technique Based Interleaved Boost Converter	Saranathan College of Engineering			1000	<i>[Signature]</i>
23	Arshad Alam Mohammed .M, Karthikeyan S, Marimuthu D, Vijay P S	Level and Pneumatic Process Monitoring and Controlling using LabVIEW	Saranathan College of Engineering		<arshadid13@gmail.com>		<i>[Signature]</i>
24	Karthikeyan S, Barathwaj R, Ganeshkumar S, Ganesh kumar A	DISTANCE MEASUREMENT AND OBSTACLE AVOIDING USING ULTRASONIC SENSOR AND ARDUINO	Saranathan College of Engineering		<s.karthik8012@gmail.com>		<i>[Signature]</i>
25	Thayuman R,K guru Venkatesh, S.N. Shanawaz, S.sriram	PRIVY PRISTINE AND SALVAGE	Saranathan College of Engineering		<thayumanraja98@gmail.com>		<i>[Signature]</i>
26	B.Surya Kumar, V.Mohan,S.Riyazdeen, M.Ranjith Kumar, B.Surya Kumar	VOCAL CRANIUM CASING USING MICROCONTROLLER	Saranathan College of Engineering		<surya.var3@gmail.com>		<i>[Signature]</i>
27	R Poovarasana,Mnaveen Kumar, E.Prithivirajan,AL Ramanathan	High Frequency Direction Finding Military Electronic Vest	Saranathan College of Engineering			1000	<i>[Signature]</i>

25	K. Prasad Prassan, M Suresh Kumar, R T Vinoth Raj	DC-DC Boost Converter with Multiple Output For Electric Vehicle	Saranathan College of Engineering			1000	<i>Saranathan</i>
26	M Gomathi	Design & Implementation of Cascaded Boost Converter for Fluorescent Lamp	Saranathan College of Engineering			500	<i>Gomathi.M</i>
27	A Srimathi	Board Survey on Smart Grid in Global Energy Market	Saranathan College of Engineering			500	<i>Srimathi</i>
28	K Shyam Sundar, R Naga Surya, R.sathish, S.Ruknudeen	Biometric Based Voting System	Saranathan College of Engineering				<i>shyam</i>


C.A.A.
H.O.D. (HSE)
Saranathan College of Engg.,
Tokkurupalli - 600 012.

JIE

Saranathan College of Engineering
2nd National Conference (NCEECS'19)
Registration Form

SL.NO	Name	Title	Institution	Contact No	E-mail	Amount Paid	Sign
1	Krishnaveni.R, Lakshmi.G, Lavanya.G	INTEGRATED SENSORS FOR SMART CITY APPLICATION USING IOT	Mount Zion College of Engineering and Technology		<venikrish700@gmail.com>		
2	R.Roshan Joshua, G.Raja,	A SECURITY MODEL FOR ELECTRONIC HEALTH RECORDS IN HEALTHCARE CLOUD USING FOG COMPUTING	II College of Engineering and Technology, Trichy		<roshanrse9345@gmail.com>		
3	K. Saranya. K. Saravanan	XOR BASED VISUAL CRYPTOGRAPHY AND LSB METHOD FOR SECURED COMMUNICATION	II College of Engineering and Technology, Trichy		<saran.trichy05@gmail.com>		
4	S.Dorthy-Infanta, P.Chellammal	SENTIMENT ANALYSIS FOR PRODUCT RECOMMENDATION SYSTEM USING HYBRID LEARNING ALGORITHM	II College of Engineering and Technology, Trichy		<dorthyinfanta94@gmail.com>		
5	Dr.Saju Subramanian	Stochastic Optimization Technique for Digital ImageWatermarking	Erode Sengunthar Engineering College		<sajube82@gmail.com>		
6	M.Gayathri,R.Amreen Sulthana Begam,C.Ibrahim	Generation of power from moving train	M.A.M.S.E		<n.udhayakumarsdv.12@gmail.com>	500	
	M.Muthulakshmi DHIVYA BHARATHI	DESIGN OF MODIFIED FLYBACK DC-DC	Saranathan College of		<mmuthulakshmiusha@gmail.com>	500	
8	V.Shepani,K Revathi,	IoT based Asset Tracking for Freight Movement	Saranathan College of		<shepaniskyblue14@gmail.com>	1000	
9	Eazhilarasi.J, ABINAYA. T	Power Quality Improvement using Series Active Power	Saranathan College of		<jeazhil1598@gmail.com>		
10	R.Saravanan,J,Sripaul, M.Vijaya	Implementation of Energy Data Collection and Control	Saranathan College of		<saravananvinayak58@gmail.com>	1000	
11	K.S.Anisha Farhin	DESIGN AND IMPLEMENTATION OF	Saranathan College of		<anishafareen96@gmail.com>	1000	
12	M.Priyanga	Implementation Of Low Cost PV Powered Water Pumping	Saranathan College of		<priyaspm1896@gmail.com>	1500	
13	R.JOHNISHI RANI	Design and Simulation of Converter with Extended Cell	Saranathan College of		jakk3012@gmail.com	1000	
14	M Shanmathi,R.Mohana	Ceramic Matrix Composites for Biomedical Applications -	Saranathan College of		shanmathi1901@gmail.com		
Lunch Break							
15	Barath R, Bharanidharan M.S,	H2O Forecasting	Saranathan College of		<tlakshminarayanan199818@gmail.com>	1000	
16	AATHREYA. S, KARTHIKHAINI. K, KEERTHANA. V KRISHNA PRIYA. V	APPLICATION OF SWARM ROBOTICS IN UNDERGROUND MINE MONITORING SYSTEM	Saranathan College of Engineering		<pvkrishnapriya98@gmail.com>	1000	
	G.KIRUTHIKA	DESIGN for 1KVA 1ϕ SOLAR HYBRID INVERTER	Saranathan College of Engineering		<kiruthikagreets@gmail.com>	1000	
18	RANJITH KUMARA SATHISHKUMAR.S ARAVINTHAN. M MAHENDRAN. S	Unmanned Railway Gate Control System	Saranathan College of Engineering			1000	
19	RAGAVI S. SANGEETHA .N SWETHA GAYATHRI S VIJAYA LAKSHMI .K	Ibbler -Awomen Safety Device	Saranathan College of Engineering		swetha59@gmail.com	1000	
20	BHAVADHARINLP HARITHA.R	Design of Soft Starter for Three Phase AC Motors	Saranathan College of Engineering			1000	
21	ABISHEK S. ELAMURUGU. K	Multilevel DC-AC Power Conversion System with Single DC Source	Saranathan College of Engineering				
22	Saikamala. C.M, Santhoshini R, Swetha	MEMS based Pressure Sensor to Measure Blood Pressure	Saranathan College of Engineering		<sswethaseshadri@gmail.com>	1000	
23	G Ajay, M.Azhagu Vigna Rajan, R.Jagadeesan, M.Mohamed Pharsath	DECISION MAKING FOR CRITICAL RUN OUTS IN CRICKET USING LABVIEW	Saranathan College of Engineering		<ajaymarswin2020@gmail.com>	500	
24	G.Harii Harren,C.T.Muthalaga ppan, Saminathan N, Arjun M	Design of PID controller Simulation for MULTI INPUT MULTI OUTPUT System using Control Techniques	Saranathan College of Engineering		<hariharren98@gmail.com>		

555

**Saranathan College of Engineering
2nd National Conference (NCEECS'19)**

Registration Form

Sl.NO	Name	Title	Institution	Contact No	E-mail	Amount Paid	Signature
1	D.Nandhini , S.Visalakshi	HIGH-EFFICIENCY TWO-STAGE THREE-LEVEL GRID-CONNECTED PHOTOVOLTAIC INVERTER	Dhanalakshmi Srinivasan Institute Of Technology trichy		<vishalieee03@gmail.com>	1000(ON)	<i>[Signature]</i>
2	R.Ramana Rahul,R.Stamil guhan,C.Vengadesh	IOT BASED CONTROLLING OF HYBRID ENERGY SYSTEM USING ESP8266	Dhanalakshmi Srinivasan Institute Of Technology trichy		<vishalieee03@gmail.com>		<i>[Signature]</i>
3	Jeeva	IMPROVING NET BANKING SECURITY WITH FACE RECOGNITION BASED BIOMETRIC VERIFICATION	J.J. COLLEGE OF ENGINEERING AND TECHNOLOGY		<jeevasara1723@gmail.com>	2000dd	<i>[Signature]</i>
4	A.ANBU SELVI, H.MAHARIBATH NISHA	ADAPTED QUASI-Z-SOURCE INVERTER TORQUE RIPPLE MINIMIZATION FOR A PMSM USING SLIDING MODE CONTROL	M.I.E.T Engineering College		<angelintrosy28@gmail.com>	500	<i>[Signature]</i>
5	T.Pragathi	Power Factor Improvement of Solar Based BLDC Motor Using LUO Converter	Mookambigai College of Engineering		<pragathi14@gmail.com>	500dd	<i>[Signature]</i>
6	S Naga Nandhini	Soft Switching Bidirectional Full Bridge DC/DC Converter with Passive and Active Snubbers				500dd	<i>[Signature]</i>
7	J.SHERRIN BANU	ANALYSIS OF SEPIC CONVERTER FOR RENEWABLE ENERGY APPLICATION	Saranathan College of Engineering		sherrinbanu2@gmail.com		<i>[Signature]</i>
8	Vijithra N MYTHILS PRASANTHINI.S	Third Eye-Low Cost Smart Cane for Visually Impaired person	Saranathan College of Engineering		<vijithra.ncn.15@gmail.com>	1000	<i>[Signature]</i>
9	Aswanth B AJITH ARUMUGAM.A, MOHAMED ASIF .K, PRADEEP KUMAR M	OPTICAL CHARACTER RECOGNITION BASED TEXT TO BRAILLE CONVERTER	Saranathan College of Engineering		<aswanthb.003eee@gmail.com>	1000	<i>[Signature]</i>
10	M.Rayees ahmed, S.Mukundh,	Processing and Evaluation of Polymer Matrix Composites - Review	Saranathan College of Engineering		<rayeesahmed1997@gmail.com>		<i>[Signature]</i>
11	AARTHY A CHIVUKULA SRILAXMIE KRISHNA. C,	Implementation of MVDC distribution system using quadratic boost converter	Saranathan College of Engineering		<aarthy98@gmail.com>	500	<i>[Signature]</i>
12	V. Kavya MAHALAKSHMIS	Automatic Solar Based Grass Cutter	Saranathan College of Engineering			1000	<i>[Signature]</i>
13	Poornima.M,R A Abirami, Vjanani,M Muthumeenal	AUTOMATIC FRUIT DETECTION SYSTEM USING IMAGE PROCESSING	Saranathan College of Engineering		<m.poornima1998@gmail.com>	500	<i>[Signature]</i>
14	P.Kiruthika, DIVYAS, KARTHIKA. V	FUZZY LOGIC CONTROLLER USING SHUNT ACTIVE POWER FILTER FOR	Saranathan College of Engineering		<kiruthikagreets@gmail.com>	500	<i>[Signature]</i>
Lunch Break							
15	Pradeep Raaj K , Prasanth P, Soorya B, Hari Prakash	AgriBiot - Farmer's Friend	Saranathan College of Engineering			500	
16	Aravindan U , Ajay M.S, Dhinesh kumar R ,	Performance Evaluation of Asymmetric Multi-level Inverter Setup for Renewable	Saranathan College of Engineering		<saravananvinayak58@gmail.com>		
17	Muthu Karuppan N , Leo Aldrinraj A S , Madhanraj S	A Broad Survey on Air Pollution Monitoring and Traffic Management	Saranathan College of Engineering			1000	<i>[Signature]</i>
18	M.Fahima Afrin,P.Rekha,N. Vinothini,D.Vishnupriya	SECURE DATA USING AES ALGORITHM FOR IOT DEVICE	Saranathan College of Engineering		<versatilerekha@gmail.com>	500	<i>[Signature]</i>
19	NAVEEN KUMAR. K RAHUL MALLYA	Real Time Enhancement of Power Factor using smart Meters	Saranathan College of Engineering				<i>[Signature]</i>
20	PAVINTHAN. M SIVASUBRAMANIAN.S SURENDRAN. K.R AJITHKUMAR. A	Active Power Factor Correction using PWM Rectifier for Online UPS Systems	Saranathan College of Engineering			1000	<i>[Signature]</i>
21	T. Dharani	Automated Diagnosis of Acute Lymphoblastic Leukemia Using A Supervised Classifier	Saranathan College of Engineering		<dharucadbury@gmail.com>	1000	<i>[Signature]</i>
22	R.Seetharaman1	Design of Cardiac Activity Monitoring Using Arduino	Saranathan College of Engineering		<umamaheswarik1998@gmail.com>		<i>[Signature]</i>
23	Sri Priya. R,Naginma Begam M, Gayathri T J,Anupriyadarshini C	Experimentation of Coriolis flow meter using self sensing electronics	Saranathan College of Engineering		<rssripriya1997@gmail.com>	1000	<i>[Signature]</i>
24	Harilakshmi.M, S.Mohanaambiga, S.Dhanalakshmi,R.Renuga	DESIGN AND SIMULATION OF CORIOLIS FLOW METER	Saranathan College of Engineering		<harilaxmi.sai@gmail.com>	1000	<i>[Signature]</i>
25	S.Abdul Rahuman	Multiple Input Dc-DC Converter with Effective Charging of Energy Storage	Saranathan College of Engineering			1000	<i>[Signature]</i>
26	Abinaya T . J Eazhilarasi, T.Hemadevi	Power Quality Improvement using Series Active Power Filter	Saranathan College of Engineering			500	<i>[Signature]</i>
27	P Ayisha Banu	Model and Fruition of PID Controller for DF Boost Converter	Saranathan College of Engineering			500	<i>[Signature]</i>



SARANATHAN COLLEGE OF ENGINEERING

Panjappur, Tiruchirappalli-620012

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
(NBA Accredited)

CERTIFICATE


This is to certify that Mr./Ms. MYTHILI . S has

Participated and presented a Paper entitled THIRD EYE - LOW COST SMART
CANE FOR VISUALLY IMPAIRED PERSON

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.

NC
CEECS
2019




Dr. S. VIJAYALAKSHMI
Organising Secretary


DR.C.KRISHNAKUMAR
Convener, HOD/EEE


Dr.D.VALAVAN
Principal



SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
TIRUCHIRAPALLI - 620 012.

Date : 22-01-19

Ref No : SCE/EEE/Workshop/2018-2019/01

To
The Principal
Saranathan College of Engineering
Trichy - 12

Through HOD/EEE,

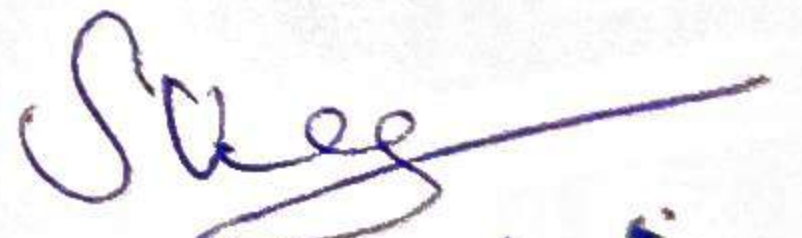
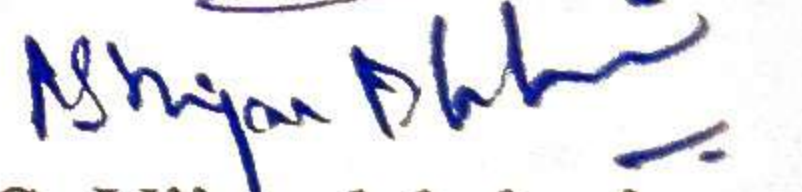
Respected Sir,

Sub: Requisition for Physics Lab as Venue for conducting two days workshop - reg.

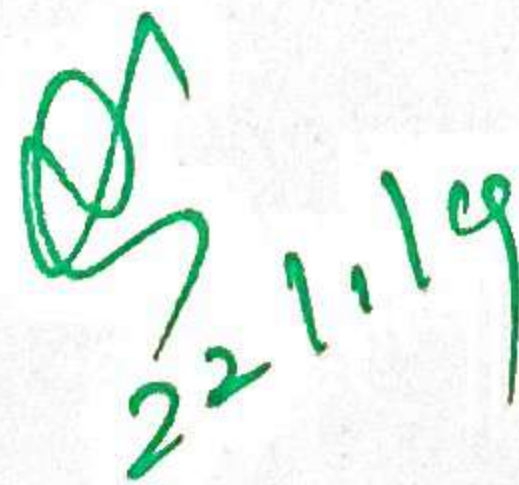
We are proposed to conduct two days workshop titled "Hands on training for Repair & Maintenance of Home appliances and Programming on AURDINO" by our Final year EEE students on Feb 4th & 5th 2019. Hereby we kindly request you to permit us to conduct this workshop at Physics Lab. / or Old Computer Lab 2 JS block

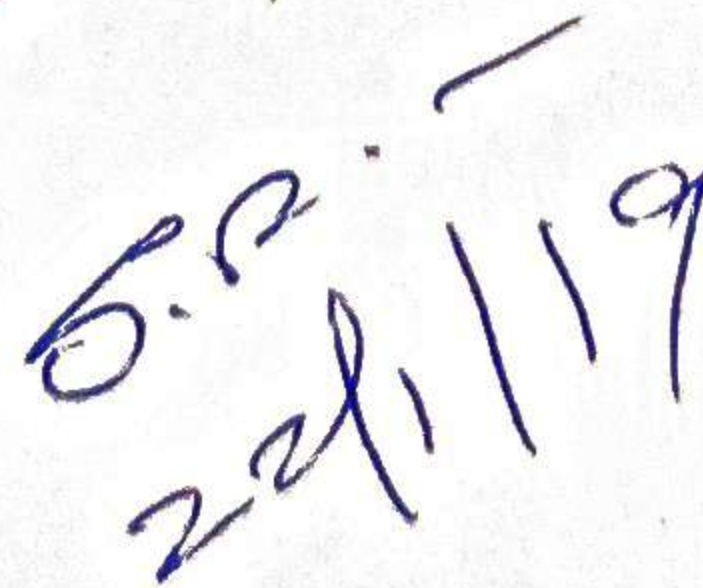
Thanking you,

Yours faithfully,



(Dr.S. Vijayalakshmi
R.S.PriyaaDharshini)


22/1/19


22/1/19


S.P.
22/1/19



SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
TIRUCHIRAPALLI - 620 012.

Date : 22-01-19

Ref No : SCE/EEE/Workshop/2018-2019/01

To
The Principal
Saranathan College of Engineering
Trichy - 12

Through HOD/EEE,

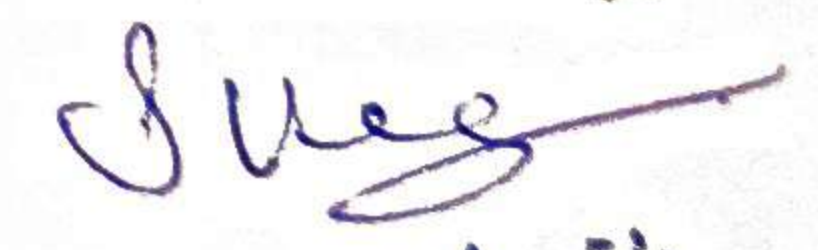

Respected Sir,

Sub: Requisition for approval to conduct two days workshop - reg.

To enhance the practical knowledge of our third year EEE students, we are proposed to conduct two days workshop titled "Hands on training for Repair & Maintenance of Home appliances and Programming on AURDINO" by our Final year EEE students on Feb 4th & 5th 2019. Workshop registration fee is Rs.125/- per student which includes certificate, prizes and refreshments. Hereby we request you to kindly grant approval for conducting this workshop. We herewith enclosed the tentative budget for your perusal.

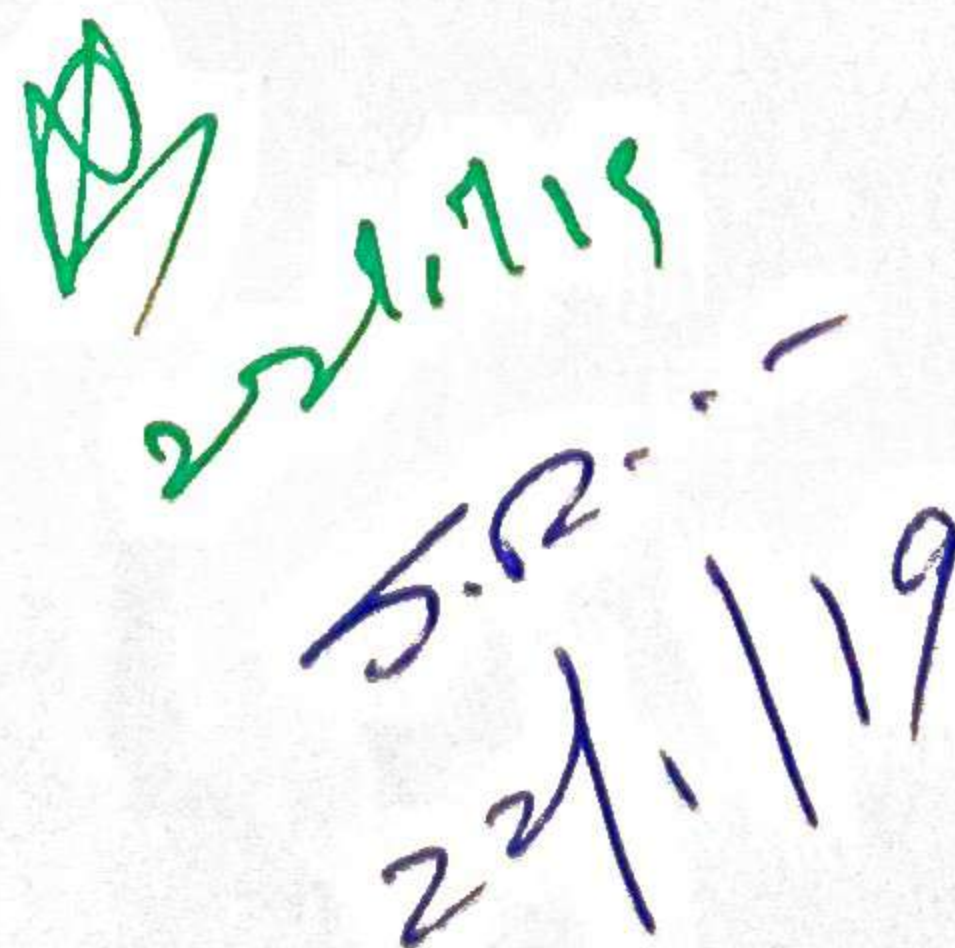
Thanking you,

Yours faithfully,

(Dr.S. Vijayalakshmi
R.S.PriyaaDharshini)




22.1.19
S.R.
22.1.19

SARANATHAN COLLEGE OF ENGINEERING

IEI STUDNETS' CHAPTER

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

HANDS ON TRAINING FOR REPAIR AND MAINTENANCE OF HOME APPLIANCES AND PROGRAMMING ON ARDUINO

The department of EEE proudly initiated peer to peer learning through 'HANDS ON FOR REPAIR AND MAINTENANCE OF HOME APPLIANCES AND PROGRAMMING ON ARDUINO' with a volume of 40 students of pre-final year conducted by a panel of final year students. This event was conducted on 4th and 5th of February, 2019 at JS block computer lab and EEE tutorial hall. The participants and the tutors were presented the participation and appreciation certificates respectively by the Principal, SCE.

INAUGURATION



The event began with the inaugural function on 04.02.2019 at 9.30 am.

FELICITATION ADDRESS BY HOD – EEE

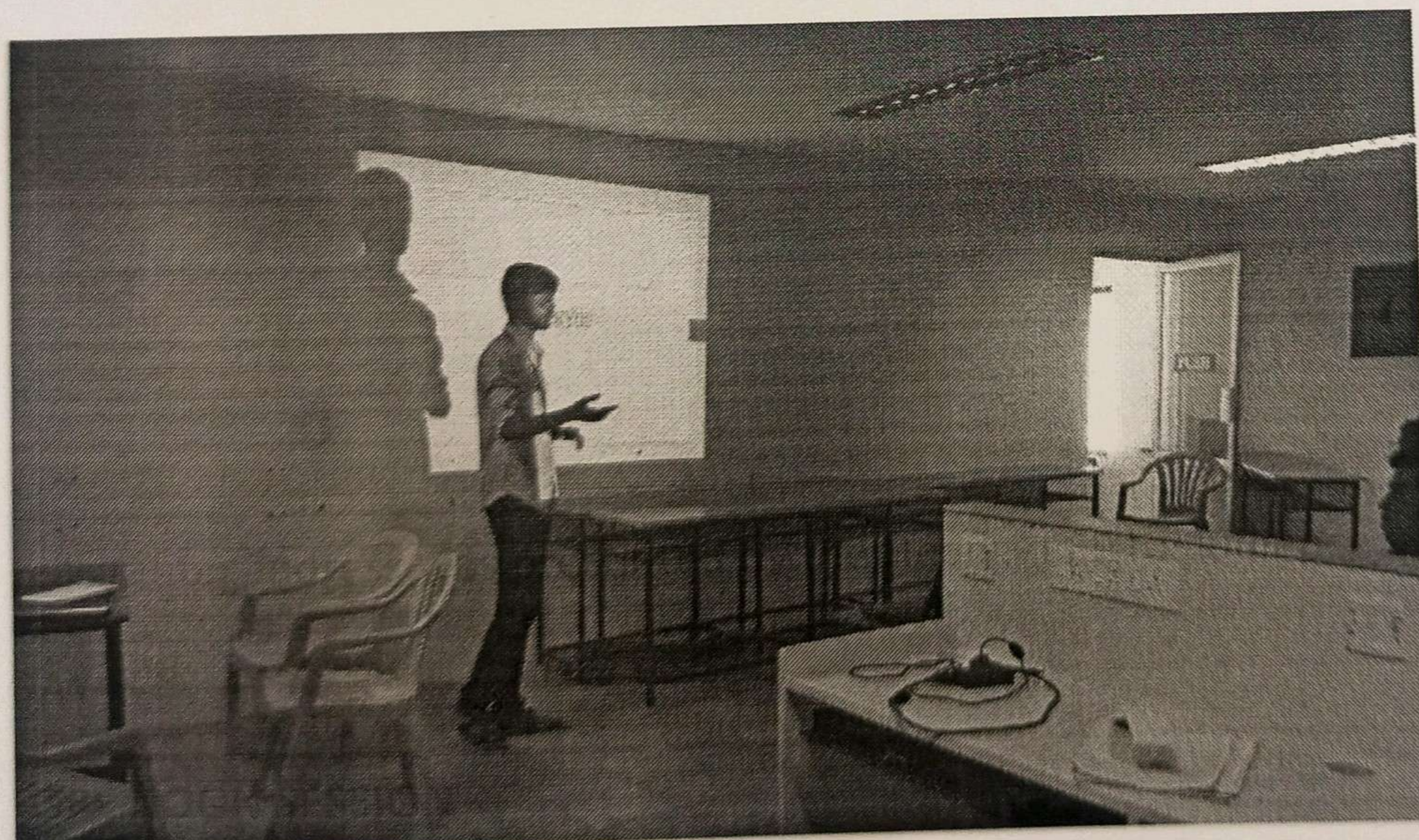


Felicitation address was presented by the Head – EEE to audience.

DAY 1

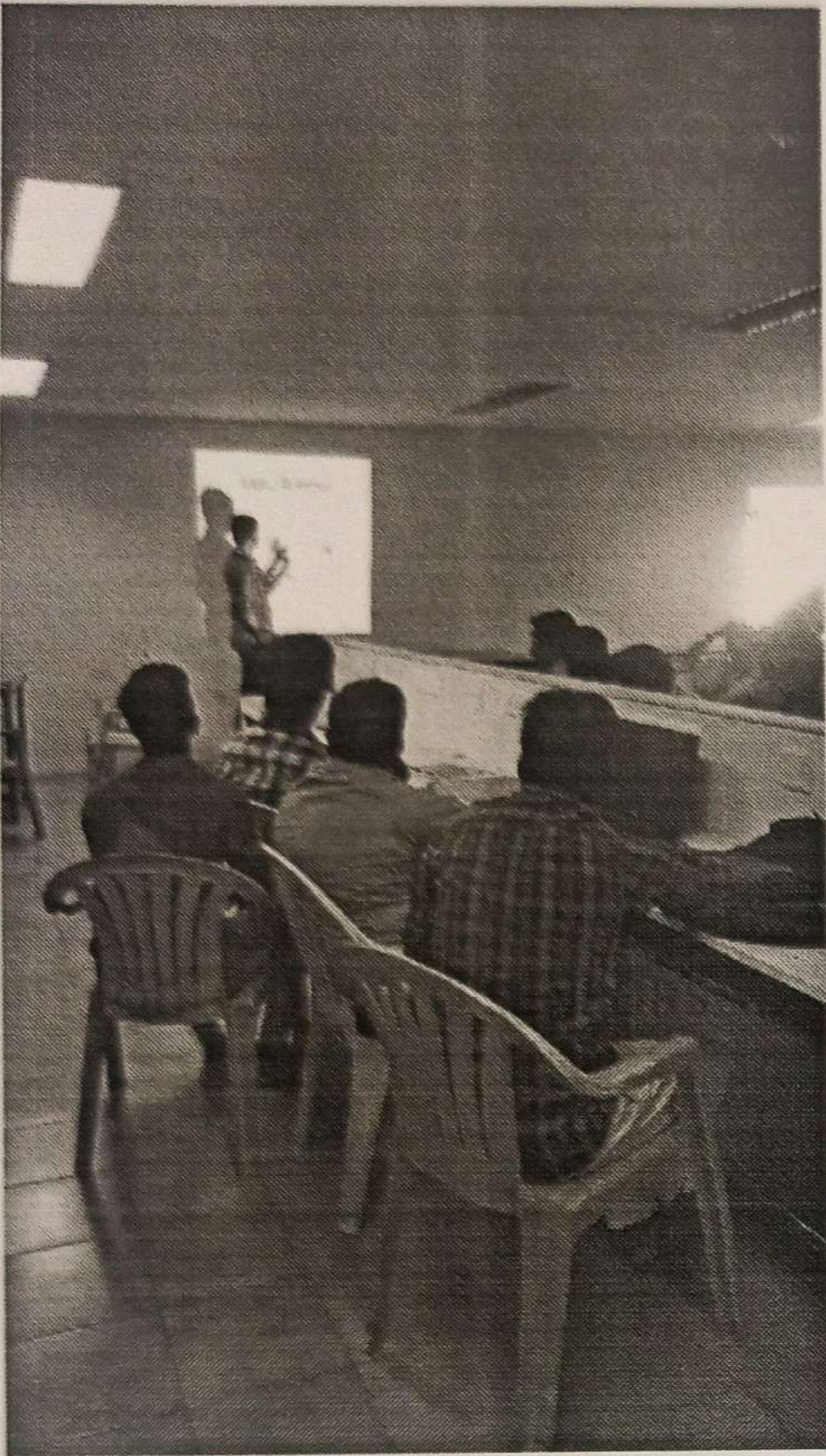
FORE NOON SESSION

INTRODUCTION TO ARDUINO



History and evolution of ARDUINO was presented by **MANORANJAN G / FINAL YEAR, EEE**

INTRODUCTION TO SENSORS



An introduction to sensors was presented by **MADHANRAJ S/ FINAL YEAR, EEE**



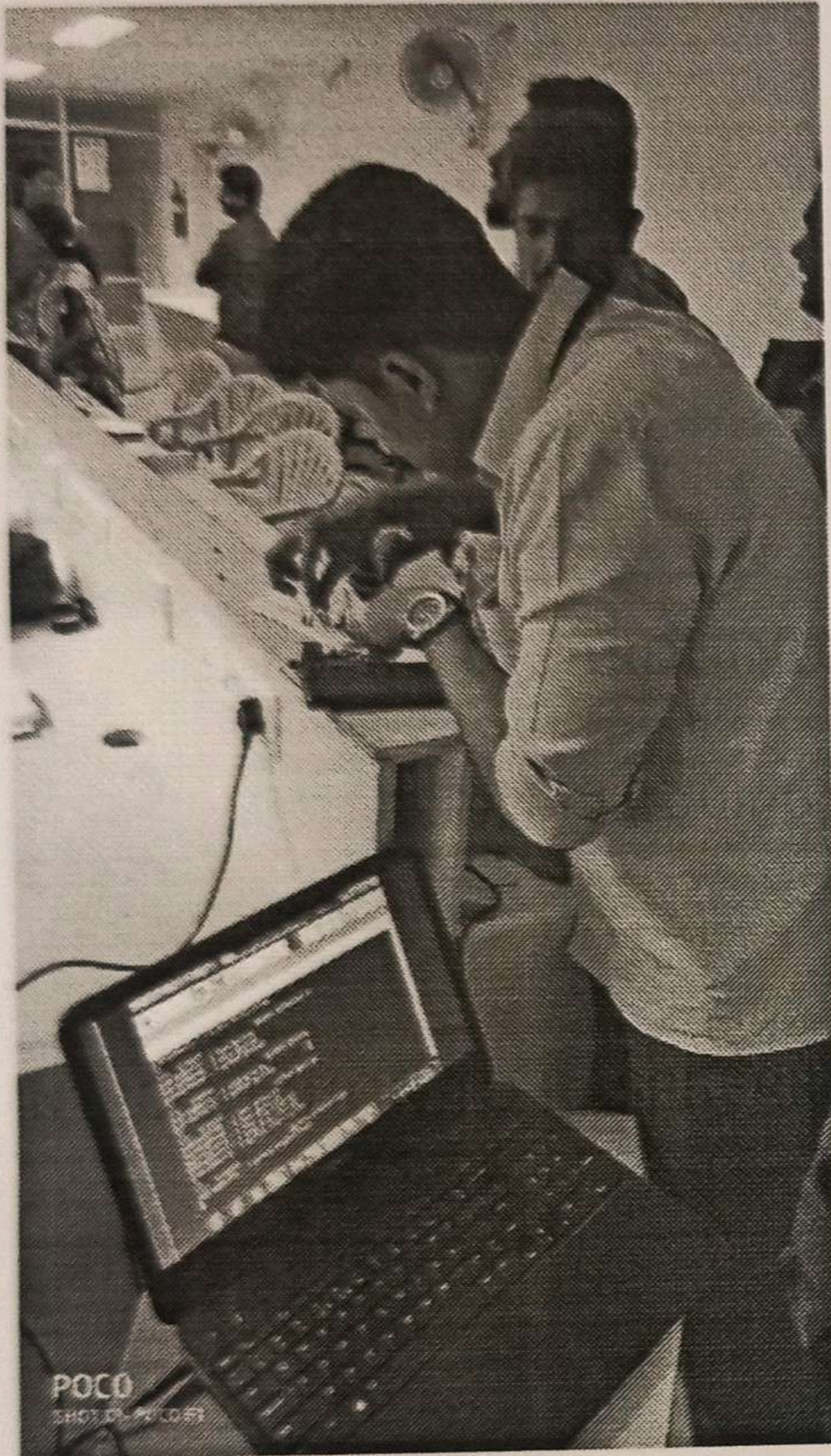
Sensors - Operation And Programming , basic working principle of sensors was presented by **LEO ALDRINRAJ S/ FINAL YEAR, EEE**

AFTER NOON SESSION

PROGRAMMING ON ARDUINO

Basic programming on arduino tutorials were given by **MUTHUKARUPPAN N/ FINAL YEAR, EEE**

INTRODUCTION TO RASPBERRY PI

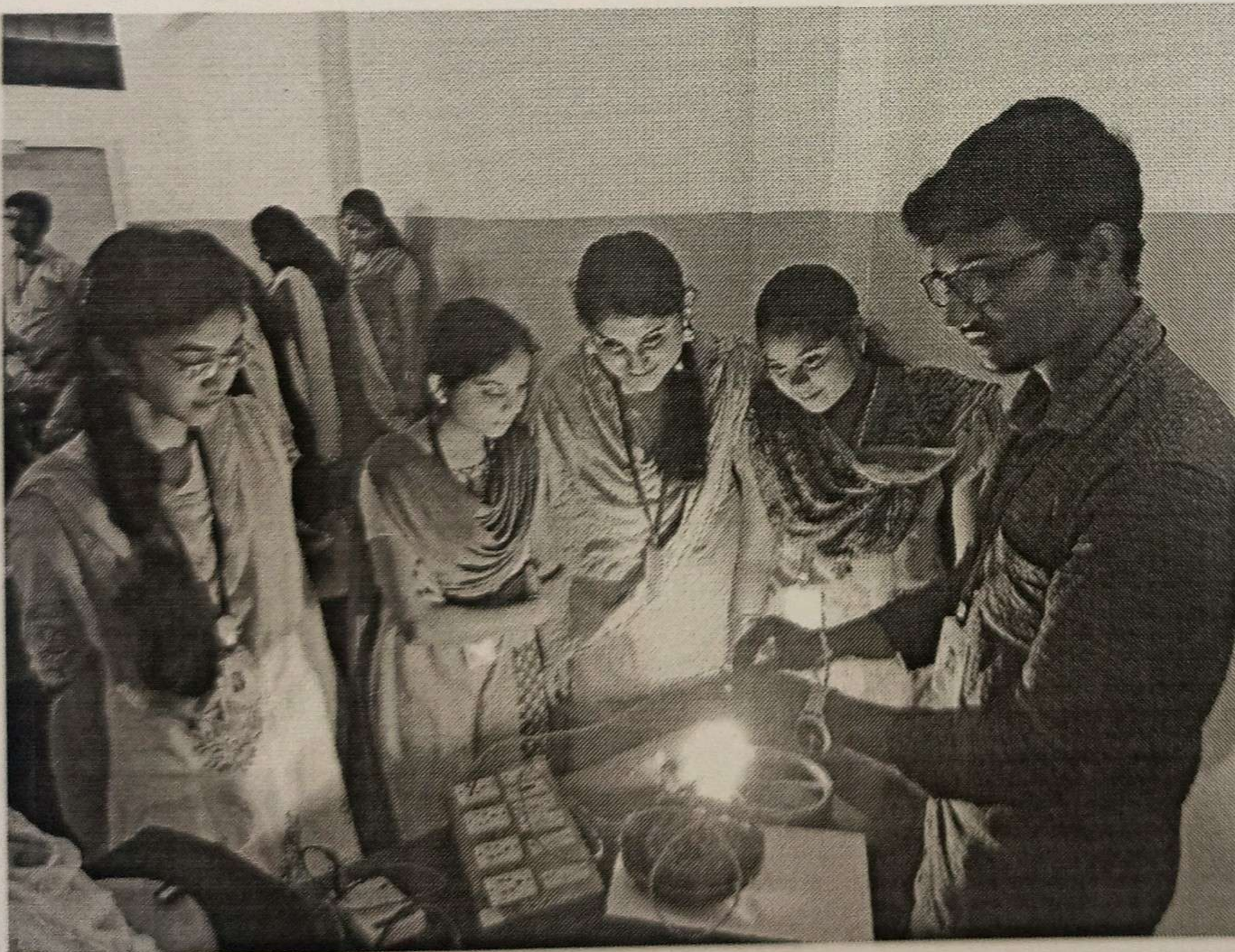


Introduction of raspberry pi and its basic programming was presented by **ASWANTH B/ FINAL YEAR, EEE**

DAY 2

FORE NOON SESSION

REPAIR AND MAINTENANCE OF HOME APPLIANCES



Repair and maintenance of home appliances (fan, mixer and tube light) presented by
SARAVANAN R, BARATH R & RAGUL R / FINAL YEAR, EEE

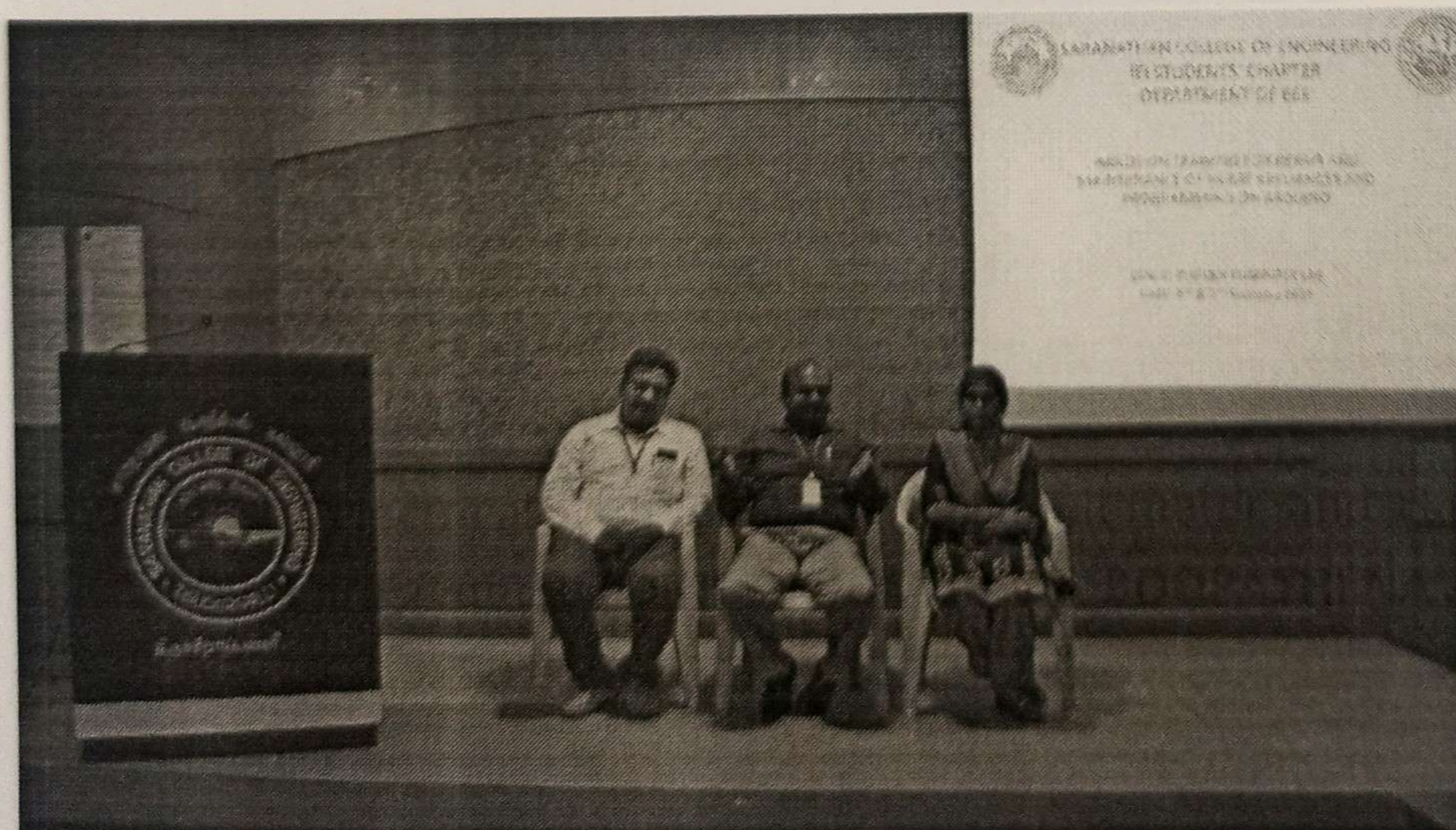
AFTER NOON SESSION

DEBUGGING OF ELECTRONIC COMPONENTS USING MULTIMETER AND CLAMP



Debugging of electrical components using multimeter and clamp meter and basic electrical concepts was presented by **DINESH KUMAR V & BOOPATHI NAVANEETHAN S/ FINAL YEAR, EEE**

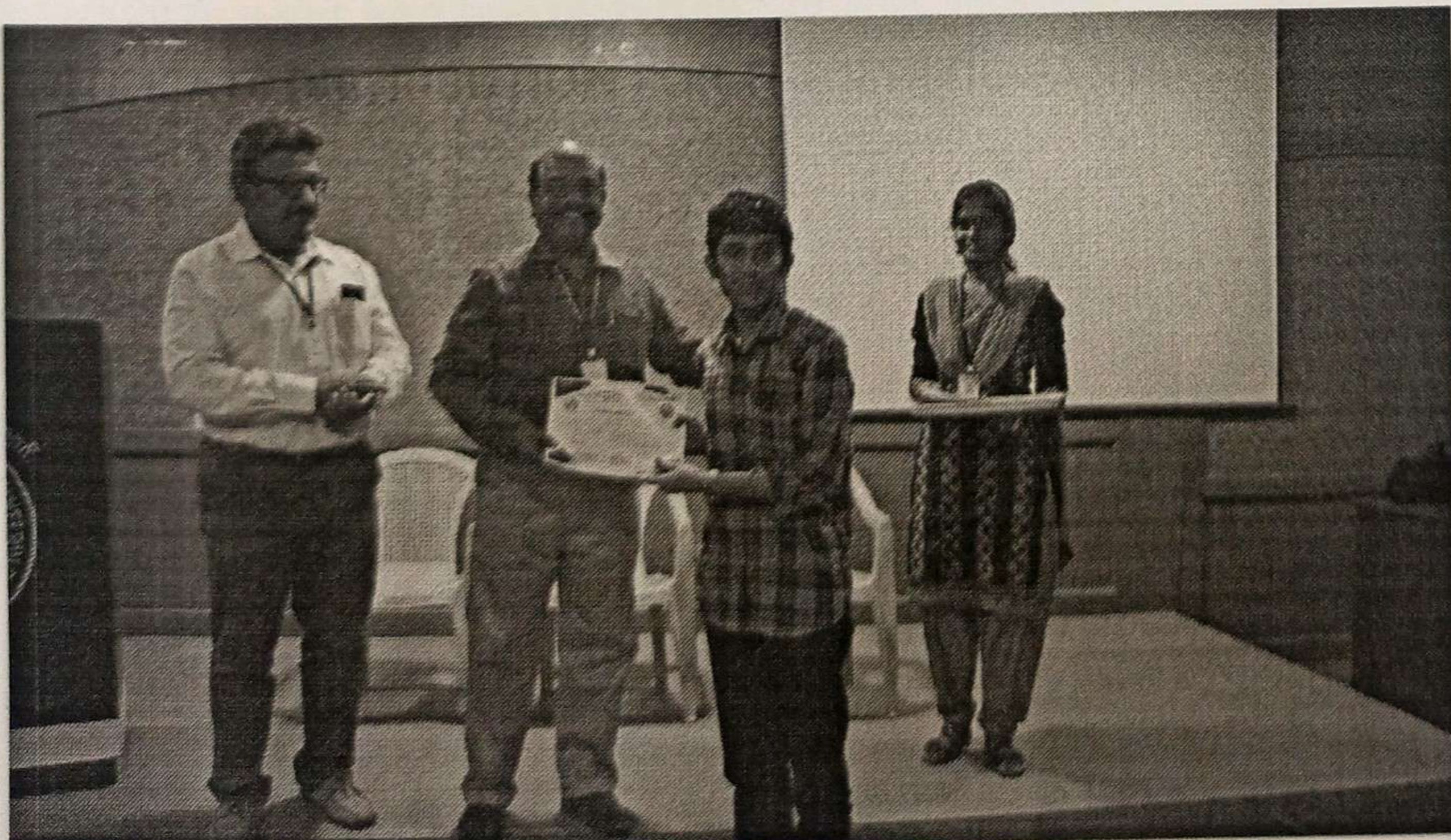
VALEDICTORY FUNCTION





Valedictory function was conducted at the end of the session on 05.02.2019 and the participants and the trainers were motivated with certificates and mementos.

CERTIFICATE DISTRIBUTION FOR THE PARTICIPANTS



Participants were presented with participation certificates as a token of appreciation.

Hands on training for repair and maintenance of home appliances and programming on Arduino on 4th and 5th February 2019



Saranathan College of Engineering
Department of EEE

**List of Students attended one day hands on training for Repair and Maintenance
for Home appliance and programming on Arduino**

S.No	Batchno	Reg No	Student Name
1	193001	813816105001	AADIMAATHAVAN. K
2	193002	813816105002	ABHIRAMI.V
3	193003	813816105003	AJAY. L
4	193004	813816105004	ANANTH. T
5	193005	813816105005	ANITHA. J
6	193006	813816105006	ANTONY ROZARIO GNANARAJ. B
7	193008	813816105008	ARAVINDH. V
8	193009	813816105009	ARULRAJA. K
9	193010	813816105010	ATCHAYA. S
10	193011	813816105011	BALAJI. N
11	193012	813816105012	BECCA. R
12	193013	813816105013	BHUVANESWARI. S
13	193014	813816105014	BOOMA. G
14	193015	813816105015	CHANDRAMOHAN. P
15	193016	813816105016	DEVADHARSHINI. G
16	193017	813816105017	DEVI SRI. J
17	193018	813816105018	DHANRAJ. B
18	193019	813816105019	DHARSHINI. R
19	193020	813816105020	DHURGA DEVI. A
20	193021	813816105021	DILIP. R
21	193022	813816105022	DINESH KUMAR. R
22	193023	813816105023	ESWAR. M
23	193024	813816105024	GANESAN. S
24	193025	813816105025	GANESHKUMAR. V.
25	193026	813816105026	GOKUL NATH. A.J
26	193027	813816105027	GOWTHAM. K
27	193028	813816105028	GUHAN. R
28	193029	813816105029	GURUPRASAD. S.K
29	193032	813816105030	HARIHARAN. K
30	193030	813816105031	HARI HARAN. S
31	193031	813816105032	HARI PRIYA. B
32	193033	813816105033	HARSHINI. P
33	193034	813816105034	HEMADHARSHINI. G.V
34	193035	813816105035	INDHU. R
35	193036	813816105036	IRSHATH ALI. K
36	193037	813816105037	JOICY. J
37	193039	813816105039	KARTHICK. S
38	193040	813816105040	KARTHIKEYAN. N
39	193041	813816105041	KEERTHANA. D
40	193042	813816105042	KEERTHANA. M
41	193043	813816105043	KEERTHI MALINI. S
42	193044	813816105044	KISHORE KUMAR. U
43	193045	813816105045	KOWSALYA. S
44	193046	813816105046	KUMARAN. R
45	193047	813816105047	LAKSHMI. SK

*List of students
attended one day hands
on training
S. Veer
4/02/19*

apb

HOD / EEE

Saranathan College of Engineering
Department of EEE

**List of Students attended one day hands on training for Repair and Maintenance
for Home appliance and programming on Arduino**

S.No	Batchno	Reg No	Student Name
46	193048	813816105048	MADHUMITA. S
47	193049	813816105049	MADHURANTHAGI. T
48	193051	813816105051	MANIKANDAN. D
49	193052	813816105052	MANISH .A.E
50	193053	813816105053	MEENATCHI. V
51	193054	813816105054	MEGADHARSHINI. S
52	193055	813816105055	MOHAMED FAIZAL. T
53	193056	813816105056	MOHAMED NASRULLAH. N
54	193057	813816105057	MOHAMED SUHAIL. A
55	193058	813816105058	MOHAMED AMEENULLAH. H
56	193059	813816105059	MONIKA. M
57	193060	813816105060	NANDHINI. T
58	193061	813816105061	NARMATHA DEVI. K
59	193062	813816105062	NETHRA. M
60	193063	813816105063	NIDHISH. T
61	193064	813816105064	NIRUBHANJALI. R.V
62	193065	813816105065	PARTHASARATHY. A
63	193066	813816105066	PRABHAKARAN. S
64	193067	813816105067	PRADEEP. A
65	193068	813816105068	PRADEEP. P
66	193069	813816105069	PRADEEPA. L
67	193070	813816105070	PRAGATHEESWARI. G
68	193071	813816105071	PRASANTH. M
69	193072	813816105072	PRECILLA POORANI. X
70	193074	813816105073	PRIYADHARSHANI. P
71	193075	813816105074	RAGUL. C.R
72	193076	813816105075	RAJENDRA PRASATH. P
73	193077	813816105076	RAMAPRABA. G
74	193079	813816105077	RISHIKESH KUMAR. R
75	193080	813816105078	ROHIT MALLYA
76	193081	813816105079	SACHIN. S
77	193083	813816105080	SANTHOSH. R
78	193082	813816105081	SANTHOSH KUMAR. K
79	193084	813816105082	SARANYA. G
80	193085	813816105083	SATHYA UMA
81	193086	813816105084	SELVASHANTHINI. S
82	193087	813816105085	SHABASH KHAN. H
83	193088	813816105086	SHAHANAZMARIYAM. M
84	193089	813816105087	SHARVIN. J
85	193090	813816105088	SHREE HAARRINI. S
86	193091	813816105089	SHYAM ANTONI. S
87	193092	813816105090	SIDDHARTHAN. M.A
88	193093	813816105091	SIDHARTH PRASAD
89	193094	813816105092	SIVAPRIYA. S
90	193095	813816105093	SOPHIYA JOSEPHINE. A



HOD EEE

Saranathan College of Engineering

Department of EEE

List of Students attended one day hands on training for Repair and Maintenance for Home appliance and programming on Arduino

S.No	Batchno	Reg No	Student Name
91	193096	813816105094	SOUNDHARYA. S
92	193097	813816105095	SRINATH. G
93	193098	813816105096	SRIRAM. G
94	193099	813816105097	SUBASHREE. B
95	193100	813816105098	SUBHIKSHA. K
96	193101	813816105099	SUBRAMANIAN. D
97	193102	813816105100	SUDHARSON. N.A
98	193103	813816105101	SUGANYA. N
99	193104	813816105102	SUNDHARA LAKSHMI. R
100	193105	813816105103	SURUTHI. J S
101	193106	813816105104	SURUTHI. S
102	193108	813816105106	SWARNASRI. M
103	193109	813816105107	SWETHA. R
104	193110	813816105108	TAMIZHAZHAGAN. A
105	193111	813816105109	THERASA METTILDA. S
106	193112	813816105110	VALLIAMMAI. S
107	193113	813816105111	VASANTH. M
108	193116	813816105112	VIGNESH. S
109	193114	813816105113	VIGNESH. S
110	193115	813816105114	VIGNESH. S
111	193117	813816105115	VIJAYALAKSHMI. S
112	193118	813816105116	VIJAYARAGAVAN. K
113	193119	813816105117	VISHNU CHANDER. R
114	193120	813816105118	VISWANATHAN. M
115	193121	813816105119	VISWANATHAN. M
116	193123	813816105121	YUVASRI. M
117	193133	813816105301	CHANDRA SEKAR P
118	193124	813816105302	KALAIYARASAN R
119	193131	813816105303	KANIMOZHI SA
120	193126	813816105306	PERUMAL RAJA S
121	193125	813816105310	SHANMUGARAJESHWARAN M



HOD / EEE

**Saranathan College of Engineering
Institute of Engineers (India) - Students' Chapter
Department of EEE**

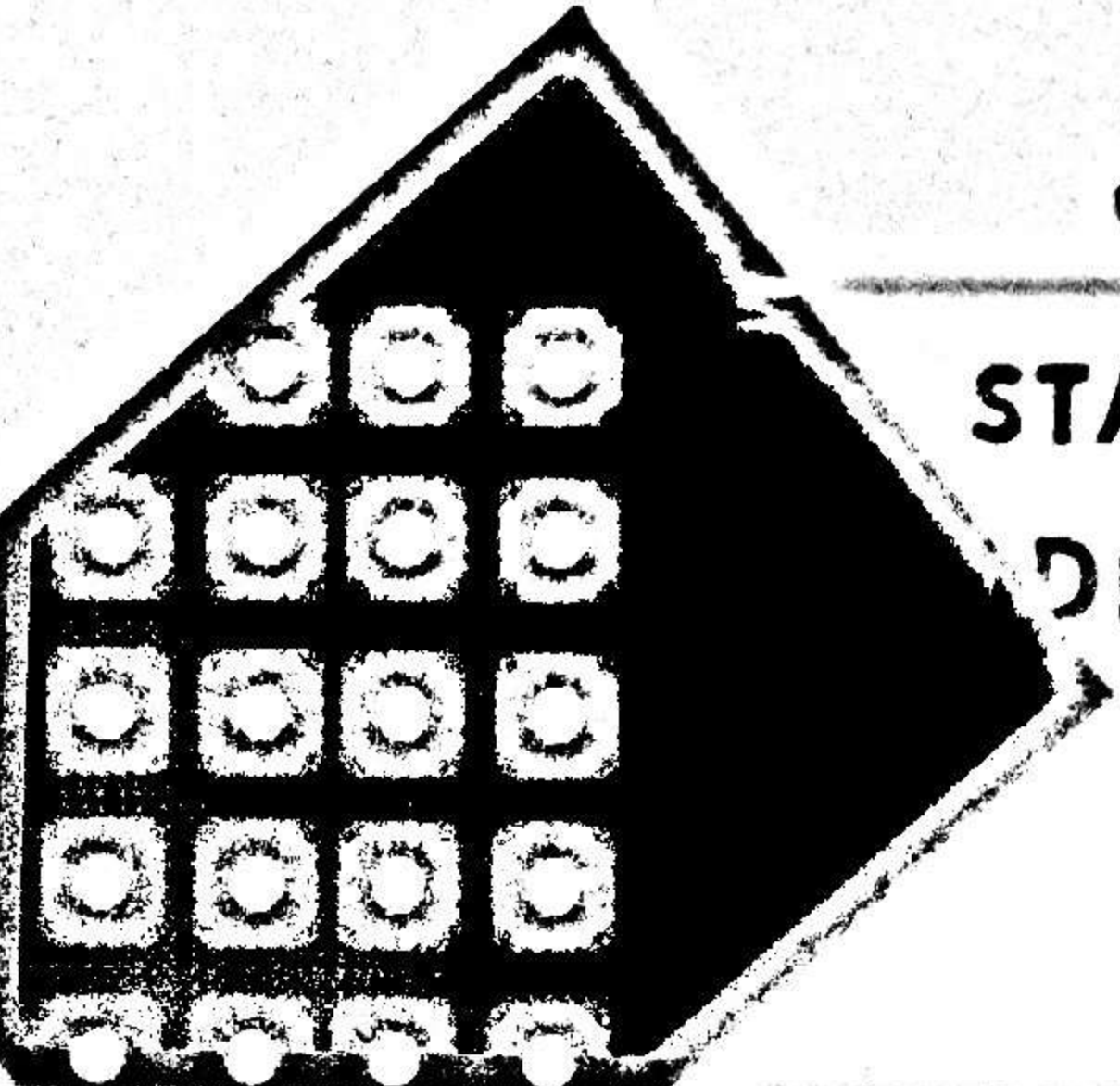


Certificate of participation

This is awarded to

KEERTHI MALINI .R

for his/her participation and excellent performance in the
'HANDS ON TRAINING ON REPAIR AND MAINTENANCE OF HOME
APPLIANCES AND PROGRAMMING ON ARDUINO' conducted by
Saranathan College of Engineering on 04.02.2019 & 05.02.2019



Sueg
4/2/19

**STAFF CO-ORDINATOR
Dr.S.Vijayalakshmi**

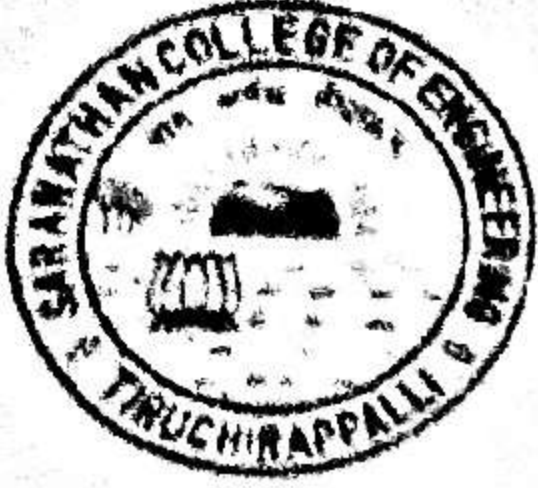
cfk

**HEAD - EEE
Dr.C.Krishna Kumar**

Dv

**PRINCIPAL
Dr.D.Valavan**





SARANATHAN COLLEGE OF ENGINEERING,
TIRUCHIRAPALLI-620 012



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

14th Dec 2018

Submitted to : The Principal
Submitted by : S.Sivakumar, AP/EEE
Submitted through : Dr.C.Krishnakumar, HoD/EEE

Respected Sir/Madam,

Subject: Permission to conduct Training sessions for Third and Final year students – regarding


In view of placements and internships for students' community, EEE department is conducting Autodesk Revit for MEP Engineering for final year students and planned to conduct NI LabVIEW training program for third year students during the dates mentioned below. In this regard, one of the training days falls on 18th Dec, 2018 which would be local holiday due to Vaikunda Ekadasi. I request you to kindly permit to continue to conduct training on that day. The details of training are listed below.

S.No.	Description	Dates	No. of students
1	Autodesk REVIT for MEP Training IV year	3, 6, 7, 11, 17 & 18 th Dec 2018	23 B - 9 G - 14
2	NI LabVIEW training III year	18 th to 22 nd Dec, 2018	30 B- 18 G - 12

Thanking you

Yours faithfully,


14/12/18
(S.SIVAKUMAR/AP/EEE)


14/12/18
(Dr.C.Krishnakumar/HoD/EEE)



NI LabVIEW Core 2 crash course
Schedule

18.12.2018 : Using Variables and communicating data between parallel running loops

- Communicating between parallel loops
- Using local and global variables
- Writing to controls and reading from indicators
- Understanding and avoiding race conditions
- Using queues to pass buffered data between loops
- Using notifiers to broadcast data to multiple loops

19.12.2018: Implementing design patterns

- Using single loop design patterns– Including the state machine design patterns and functional global variables
- Using multiple loop design patterns–Including producer/consumer design patterns
- Handling errors
- Generating error codes and messages
- Timing a design pattern

20.12.2018: File I/O techniques


- Comparing file formats
- Creating file and folder paths
- Writing and reading binary files
- Working with multichannel text files with headers

21.12.2018: Improving an existing VI

- Refactoring inherited code
- Typical issues when refactoring code

22.12.2018: controlling the user interface

- Using property nodes
- Using invoke nodes
- Creating and using control references


H.O.D. (ECE)
Sarmathan College of Engg.,
Thalassery - 689 012.



A Brief report on NI LabVIEW Training


In view of placement and internship for students' community, Department of Electrical and Electronics Engineering conducted a 5 day NI LabVIEW training program titled "NI LabVIEW Core 2 crash course" for the third year students from 18.12.2018 to 22.12.2018 by NI Service partner – OPTI Thought, Chennai to bridge the gap between the Academic curriculum and Industrial practice. Totally 30 students registered and attended this hands-on training.

The Resource person, Mr.G.V.Mahesh engaged the hands-on session at Electrical Simulation Laboratory, Dept. of EEE. The objective of this hands-on training is to get advanced experience in handling and developing LabVIEW based applications to solve core engineering problems.

Dept. of EEE conducted a 5 day NI LabVIEW training program titled NI LabVIEW Core 2 crash course from 18.12.2018 to 22.12.2018 by NI Service partner OPTI Thought, Chennai




H.O.D. (EEE)
Saranathan College of Engg.,
Trichirapalli - 620 012.


PRINCIPAL
Saranathan College of Engineering
TRICHY - 12,



SARANATHAN COLLEGE OF ENGINEERING, TIRUCHIRAPALLI-620 012



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

7 December 2018

To bridge the gap between the Academic curriculum and Industrial practice, the **Department of Electrical and Electronics Engineering** is conducting 40hrs training program titled “**Autodesk REVIT for MEP Engineering**” for final year students during 03.12.2018 to 12.12.2018. Totally 23 students registered and attending this hands-on training.

The Resource person Mr.Murugesan, Authorized MEP Trainer engaged the hands-on session at Mechanical CAD Laboratory. The objective of this hands-on training is to design decision-making, accurate documentation, performance and cost-estimation, construction planning, managing and operating the resulting facility for building design and constructions.

Few photo clicks at Training...




H.O.D. (EEE)
Saranathan College of Engg.,
Trichirapalli - 620 012.


PRINCIPAL
Saranathan College of Engineering
TRICHY - 12,

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING
(accredited by NBA)
TIRUCHIRAPALLI



Submitted to: The Principal

Submitted through: The Head of the Department/EEE

Submitted by: Mr.B.Paranthagan Associate professor/EEE and Mr.S.Ram Prasath AP/EEE

Subject: Requisition for financial sanction for the two day workshop on "Embedded applications using Arduino" - reg

Respected sir,

Towards conducting of two day workshop on "Embedded applications using Arduino" for 108 students of second year EEE – A & B, an amount of Rs.30,000/- was paid in the office. Permission may be given to do the payment for PANTECH ProEd, Chennai through online (either RTGS or NEFT) on 13-08-2018 for the account given below.

S.Avudaiyappan

A/C No. 601301506112

Bank: ICICI

Branch: Subramaniapuram, Madurai

IFSC: ICIC0006013

Thanking You

[Handwritten signature]

Date :10-08-2018

[Handwritten signature]

Yours Sincerely

[Handwritten signature]

B.Paranthagan

S.Ramprasath



**SARANATHAN COLLEGE OF
ENGINEERING**
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING
(Accredited by NBA)
TIRUCHIRAPALLI



Cash payment Voucher

Payee Name: Avudaiyappan.S
Pantech ProEd Pvt Ltd
Email Id: Avudaiyappan.s@pantechmail.com
Phone no: 9940658158

Voucher No: 1

Date: 21-07-18

S.No	Description	Bill Reference	Amount in Rs
1	Hardware Kit (Development board ,Connecting wires and LEDs)	No : 3102	20,000/-
Total			20,000/-

Payment received:

Mr.S.Nambirajan,
Marketing in – Charge,
Pantech ProEd Pvt Ltd.

Course Coordinators

1. Mr.B.Paranthagan, Assos professor/EEE /SCE

2. Mr.S.Ramprasath, AP/EEE/SCE

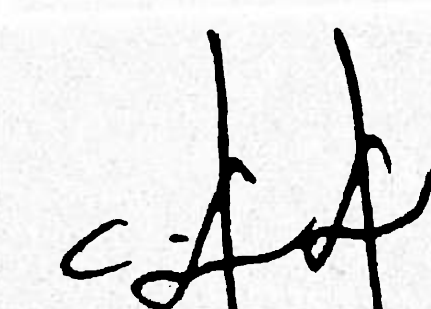
HOD EEE

TECH PRAYOG - WORKSHOP ON ARDUINO

DAYS		
Session	Time	Class Topics
I	10.00-11.00	Arduino Introduction
	11.00-11.15	Break
II	11.15-12.45	Interfacing LED & Relay
	01.00-02.00	Lunch Break
III	02.00-03.30	Interfacing Keypad, LCD
	03.30-03.45	Break
IV	03.45-04.45	LAB SESSIONS
	04.45 -05.00	Day-1 Summary Question & Answer Sessions


TECH PRAYOG - WORKSHOP ON ARDUINO

DAY 2		
Session	Time	Class Topics
I	10.00- 10.30	Timers, UART
	10.30-11.00	Counters ,Operating Modes
	11.00-11.15	Break
II	11.15-12.00	Interfacing With DC Motor, MEMS
	12.00-12.45	Interfacing With GSM, GPS, RFID
	01.00-02.00	Lunch Break
III	02.00-03.30	Hardware Session of UART, Timer, Counter, GSM, GPS, RFID
IV		
VI	03.30 -03.45	Day-2 Summary Question & Answer Sessions
	03.45-04.15	Exit Test for Workshop Participants
	04.15-04.45	Project Areas in Embedded domain in general and with Arduino in practical
	04.45-05.00	Valedictory Function & Prize Distribution


H.O.D. (ECE)
 Saranathan College of Engg.,
 Thakkurpatti - 600 012.

Embedded Applications on Arduino




HoD / EEE
H.O.D. (EEE)
Saranathan College of Engg.,
Trichrapalli - 620 012.

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF EEE
Embedded Applications using ARDUINO
Attendance Sheet
LIST OF PARTICIPANTS - II EEE - B

S.NO	BATCH NO	REGISTRATION NUMBER	NAME OF THE STUDENT	11.08-18	12.08-18
				Signature	Signature
1	203063	813817105063	PAVITHRA. K	K. Pavithra	K. Pavithra
	203076	813817105076	REVATHI. V	Revathi	Revathi
	203082	813817105082	SANKARI. S	S. Sankari	S. Sankari
	203117	813817105117	YAMUNA. S		
2	203124	813817105124	KEERTHIGA. P	P. Keerthiga	P. Keerthiga
	203070	813817105070	PREETHI. V		
	203071	813817105071	PRIYADHARSHINI. Y		
	203097	813817105097	SRIJAH. R		
3	203064	813817105064	POORANI. J	J. Poorani	J. Poorani
	203088	813817105088	SHAMNI. J	J. Shamni	J. Shamni
	203104	813817105104	SUDHILAYA. M	M. Sudhila	M. Sudhila
	203107	813817105106	SWEATHA SRI. R	R. Sweetha Sri	R. Sweetha Sri
4	203065	813817105065	PRAHATHISH. B	B. Prahathish	B. Prahathish
	203073	813817105073	RAGHAVENDRAN. S	S. Raghavendran	S. Raghavendran
	203103	813817105103	SUDHAKAR. H M	H. M. Sudhakar	H. M. Sudhakar
	203121	813817105112	VAIKUNTH. B		
5	203062	813817105062	PASHITH. H	H. Pashith	H. Pashith
	203095	813817105095	SIVARAMAKRISHNAN. T	T. Sivaramakrishnan	T. Sivaramakrishnan
	203112	813817105111	UDHAYAKUMAR. S	S. Udhayakumar	S. Udhayakumar
	203122		MITHUNESH. B.K	B.K. Mithunesh	B.K. Mithunesh
6	203067	813817105067	PRAVEENKUMAR. K	K. Praveenkumar	K. Praveenkumar
	203068	813817105068	PRAVIN KUMAR. N	N. Pravin Kumar	N. Pravin Kumar
	203074	813817105074	RAKESH. K K	K.K. Rakesh	K.K. Rakesh
	203078	813817105078	SABARISH. B	B. Sabarish	B. Sabarish
7	203079	813817105079	Sakthi Raja. V	V. Sakthi Raja	V. Sakthi Raja
	203064	813817105064	POORANI. J		
	203088	813817105088	SHAMNI. J		
	203104	813817105104	SUDHILAYA. M		
	203107	813817105106	SWEATHA SRI. R		

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF EEE
Embedded Applications using ARDUINO
Attendance Sheet
LIST OF PARTICIPANTS - II EEE - B

S.NO	BATCH NO	REGISTRATION NUMBER	NAME OF THE STUDENT	11.08-18	12.08-18
				Signature	Signature
	203070	813817105070	PREETHI. V	V. Preethi	V. Preethi
8	203071	813817105071	PRIYADHARSHINI. Y	Y. Priyadharsini	Y. Priyadharsini
	203097	813817105097	SRIJAH. R		
	203101	813817105101	SUBALAKSHMI. G	G. Suba	G. Suba
	203083	813817105083	SANTHIYA. C	C. Santhiya	C. Santhiya
9	203084	813817105084	SANTHOSH KANNA. N	N. Santhosh	N. Santhosh
	203087	813817105087	SHALINI. S	S. Shalini	S. Shalini
	203102	813817105102	SUBIKSHA. P	P. Subiksha	P. Subiksha
	203118	813817105118	YASHWANDHNI. K	K. Yashwanth	K. Yashwanth
	203072	813817105072	PRIYANKA. E	E. Priyanka	E. Priyanka
10	203077	813817105077	ROSHINI. R	R. Roshini	R. Roshini
	203093	813817105093	SINDHUJA. M	M. Sindhuja	M. Sindhuja
	203094	813817105094	SIRISHA. S	S. Sirisha	S. Sirisha
	203100	813817105100	STEFFY JONES. A	A. Steffy Jones	A. Steffy Jones

11. 203098 813817105098 S. Srinivasan S. Srinivasan S. Srinivasan
203099 813817105099 R. S. Srinivasan R. S. Srinivasan R. S. Srinivasan
203086 813817105086 A. Sentil Kumar A. Sentil Kumar A. Sentil Kumar
203126 L E. V. Karikalavan V. Karikalavan V. Karikalavan

12.) 203109 813817105108 TS. Thamil Vanna TS. Thamil Vanna TS. Thamil Vanna
203111 813817105110 R. UDAYA SIMHA R. Udaya Simha R. Udaya Simha
203116 813817105116 V. VIJAY V. Vijay V. Vijay
203114 813817105114 S. Venkatesh S. Venkatesh S. Venkatesh
203066 813817105066 R. PRAVEEN R. Praveen R. Praveen

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF EEE
Embedded Applications using ARDUINO
Attendance Sheet
LIST OF PARTICIPANTS - II EEE - A

S.NO	BATCH NO	REGISTRATION NUMBER	NAME OF THE STUDENT	Signature	
				6/9/2018	8/9/2018
1	203012	813817105012	CHANDRA KISHORE. M	<i>Chandra Kishore</i>	<i>Chandra Kishore</i>
	203018	813817105018	DHARUN. M	<i>D. Dharon</i>	<i>D. Dharon</i>
	203025	813817105025	GOKUL. E	<i>E. Gokul</i>	<i>E. Gokul</i>
	203037	813817105037	JOSE MERRIL. S	<i>S. Jose Merrill</i>	<i>S. Jose Merrill</i>
2	203033	813817105033	JACOB SELWYN. D	<i>Jacob Selwyn</i>	<i>Jacob Selwyn</i>
	203035	813817105035	JAYA CHANDRAN. S	<i>Jaya Chandran</i>	<i>Jaya Chandran</i>
	203038	813817105038	KALAIARASAN. G	<i>Kalai Arasan</i>	<i>Kalai Arasan</i>
	203039	813817105039	KARUNAKARAN. G	<i>Karunakaran</i>	<i>Karunakaran</i>
3	203009	813817105009	ASWIN KUMAR. A	<i>A. Aswin Kumar</i>	<i>A. Aswin Kumar</i>
	203050	813817105050	MANOJKUMAR. P	<i>P. Manoj Kumar</i>	<i>P. Manoj Kumar</i>
	203054	813817105054	MOHAMED RAFI. M	<i>M. Mohamed Rafi</i>	<i>M. Mohamed Rafi</i>
	203057	813817105057	MURUGAN. E	<i>E. Murugan</i>	<i>E. Murugan</i>
4	203005	813817105005	ABINESH. R	<i>R. Abinesh</i>	<i>R. Abinesh</i>
	203008	813817105008	ARUL. S	<i>S. Arul</i>	<i>S. Arul</i>
	203026	813817105026	HARIHARAN. V	<i>V. Hariharan</i>	<i>V. Hariharan</i>
	203058	813817105058	NAVEEN KUMAR. S	<i>S. Naveen Kumar</i>	<i>S. Naveen Kumar</i>
5	203017	813817105017	DHARNEESH . K	<i>K. Dharnesh</i>	<i>K. Dharnesh</i>
	203015	813817105015	DEEPAK KUMAR. A**	<i>A. Deepak Kumar</i>	<i>A. Deepak Kumar</i>
	203028	813817105028	HARIPRASATH. S**	<i>S. Hariprasath</i>	<i>S. Hariprasath</i>
	203014	813817105014	DEENAA ROHIT. A	<i>A. Deena Rohit</i>	<i>A. Deena Rohit</i>
6	203024	813817105024	GOGUL. M	<i>M. Gogul</i>	<i>M. Gogul</i>
	203027	813817105027	HARIHARAN. V	<i>V. Hariharan</i>	<i>V. Hariharan</i>
	203043	813817105043	KRISHNA BADRINATH	<i>Badrinath</i>	<i>Badrinath</i>
	203051	813817105051	MOHAMED AASHIQUE. K. S	<i>S. Mohamed Aashique</i>	<i>S. Mohamed Aashique</i>
7			N.Viswas	<i>N. Viswas</i>	<i>N. Viswas</i>
	203031	813817105031	IMRAN. S	<i>S. Imran</i>	<i>S. Imran</i>
	203052	813817105052	MOHAMED IRFAN. N	<i>N. Mohamed Irfan</i>	<i>N. Mohamed Irfan</i>
	203056	813817105056	MOHAMMED RIFAT. Z	<i>Z. Mohammed Rifat</i>	<i>Z. Mohammed Rifat</i>
8	203059	813817105059	NIRESH SHANKAR. P	<i>P. Nireesh Shankar</i>	<i>P. Nireesh Shankar</i>
	203002	813817105002	ABDUL JABBAR. M	<i>M. Abdul Jabbar</i>	<i>M. Abdul Jabbar</i>
	203003	813817105003	ABINASHKUMAR. V	<i>V. Abinash Kumar</i>	<i>V. Abinash Kumar</i>
	203042	813817105042	KESAVA RAJ. M	<i>M. Kesava Raj</i>	<i>M. Kesava Raj</i>
9	203053	813817105053	MOHAMED JAVED. A	<i>A. Mohamed Javed</i>	<i>A. Mohamed Javed</i>
	203011	813817105011	BHARATHI FREETHA. K	<i>K. Bharathi Freetha</i>	<i>K. Bharathi Freetha</i>
	203019	813817105019	DHIVYA BHARATHI. U	<i>U. Dhivya Bharathi</i>	<i>U. Dhivya Bharathi</i>
	203020	813817105020	DIVYA PRABHA. T	<i>T. Divya Prabha</i>	<i>T. Divya Prabha</i>
	203045	813817105046	MADHU SHREE. S	<i>S. Madhu Shree</i>	<i>S. Madhu Shree</i>

SARANATHAN COLLEGE OF ENGINEERING
DEPARTMENT OF EEE
Embedded Applications using ARDUINO
Attendance Sheet
LIST OF PARTICIPANTS - II EEE - A

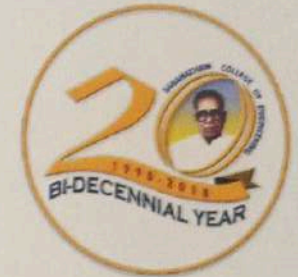
S.NO	BATCH NO	REGISTRATION NUMBER	NAME OF THE STUDENT	Signature	
				6/8/2018	8/9/2018
10	203001	813817105001	ABARNA. R	R. Abarna	R. Abarna
	203007	813817105007	ANJUKA. G	Anjuka G	Anjuka G
	203016	813817105016	DEVA PRIYA. K	Devapriya K	Devapriya K
	203032	813817105032	ISHWARYA. S	S. Ishwarya	S. Ishwarya
11	203021	813817105021	EPSHIBA BEAULA. S	S. Epshiba Beaula	S. Epshiba Beaula
	203022	813817105022	GNANA KIRUBA. A	A. Gnana Kiruba	A. Gnana Kiruba
	203030	813817105029	HARITHA. G	Haritha	Haritha
	203044	813817105044	LOGHAASHRI. T	T. Loghaashri	T. Loghaashri
12	203029	813817105030	HARITHA PRIYA. K	K. Haritha Priya	K. Haritha Priya
	203046	813817105045	MADHUMITHA. T	T. Madhumitha	T. Madhumitha
	203049	813817105049	MALINI. M	M. Malini	M. Malini
	203060	813817105060	NITHIYA. N	Nithiya	Nithiya
13	203006	813817105006	AKSHAYA. A	A. Akshaya	A. Akshaya
	203023	813817105023	GNANA PRABHA. K	K. Gnana Prabha	K. Gnana Prabha
	203036	813817105036	JAYSREE. S	S. Jaysree	S. Jaysree
	203040	813817105040	KASTURI. K	Kasturi. K	Kasturi. K
14	203004	813817105004	ABINAYA. L	L. Abinaya	L. Abinaya
	203041	813817105041	KAVUMKAL AKSA NISSI.	Aksa Nissi	Aksa Nissi
	203010	813817105010	ATCHAYA. B**	B. Atchaya	B. Atchaya
	203034	813817105034	JANANI. M**	Janani	Janani
15	203013	813817105013	CHANDRU. N	N. Chandru	N. Chandru
	203055	813817105055	MOHAMED THALIB. I	I. Mohamed Thalib	I. Mohamed Thalib
	203123		SURENDRAN. R	R. Surendran	R. Surendran
	203131		Adalkalaraj	A. Adalkalaraj	A. Adalkalaraj
16	203048	813817105048	MAKESHWARAN. B	B. Makeshwaran	B. Makeshwaran
	203047	813817105047	MAHESWARAN. R	R. Maheswaran	R. Maheswaran
			B.SENTHIL KUMAR	B. Senthil Kumar	B. Senthil Kumar
			RAJESH	Rajesh	Rajesh

SARANATHAN COLLEGE OF ENGINEERING, TIRUCHIRAPPALLI-620012.

(Affiliated to Anna University, Chennai)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

(Accredited by NBA)



CERTIFICATE

This is to certify that Mr./ Ms _____ **J.POORANI** _____

has successfully completed the two day course on "Embedded Applications Using ARDUINO" organized by the Department of Electrical and Electronics Engineering in association with Pantech ProEd at "Saranathan College of Engineering", Trichy from 11/08/2018 to 12/08/2018.

S. Arundaj
Pantech-Technical Director

[Signature]
HoD/EEE
Dr.C.Krishnakumar

[Signature]
Principal
Dr.D.Valavan



SARANATHAN COLLEGE OF ENGINEERING
TIRUCHIRAPPALLI - 620012



PROCESSOR FOR BRAINY

POINTS TO REMEMBER FOR PARTICIPATION

- * Individual student participation.
- * Student can be from any year and from any branch (Except 1st Year Students).
- * Each participating student should submit a one page write-up to the Event Coordinators, on or before **January 10th, 2019**-one page write-up should be **IoT** based from any one of the following topics:

- ** Energy Management and Smart Grid
- ** Industry 4.0
- ** Smart City and its development
- ** E-Healthcare Services
- ** Agriculture and Farming
- ** Smart Devices and Personal Assistant

* Shortlisted students must present their topics in the mentioned date given by the organizing committee.

WIN
PRIZE WORTH
Rs.20,000

BEST 3 BRAINY RECEIVES A INTEL PROCESSOR
WORTH Rs.20,000/- EACH

COORDINATOR CONTACT DETAILS

1. Mr. R.VIJAY, ASSISTANT PROFESSOR

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG.

email - vijay-eeel@saranathan.ac.in

Mobile - 9791665688

2. Mr. S.RAMPRASATH, ASSISTANT PROFESSOR

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG.

email - rampprasath-eeel@saranathan.ac.in

Mobile - 9944092636



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Accredited by NBA



A Brief Report for the IoT Hackathon contest “Processor for Brainy” sponsored by INTEL® organized by Department of EEE

1. It was planned and proposed to conduct this **Intel Software, Bangalore** sponsored contest titled “**Processor for Brainy**” during Dec, 2018. For this contest **Dr.K.Shriram K Vasudevan** is the SPOC of Intel Software and he has given his consent for conducting the same at our college campus under the coordination of **Mr.R.Vijay / AP / EEE and Mr.S.Ramprasath / AP / EEE and Mr.S.Sivakumar / AP / EEE.**
2. The objective of the **IoT Hackathon contest** is to provide suitable platform for dynamic development of students, development of presentation skills, reading habits, research abilities, technical knowledge confidence, technical writing, technical skills, and self learning awareness among the students and make the students aware of current development in their field.
3. This contest was opened to 2nd, 3rd, and final year students of all departments and the same was informed to all through a poster displayed on all departments notice board.
4. Totally, 84 students showed their interest by submitting a single page write-up on 10.01.2019 for preliminary stage. 30 out of 84 were shortlisted for the second round for presentation on 30 & 31st Jan 2019.
5. Those 30 students presentation were evaluated under different factors.
6. 12 out of 30 students were selected for the 8hrs long final idea demonstration round to demonstrate the part of their idea on 23.02.2019 and the same was evaluated under different factors by experienced faculty members.
7. Winners from final round were announced on 2.3.2019 by **Dr.Shriram K Vasudevan, IoT Intel Innovator** in the presence of **Dr.C.Krishnakumar, HoD/ EEE** after addressing the students.
8. Prizes for the winners and appreciation certificate for the runners were distributed by **Dr.Shriram K Vasudevan**, in the presence of **Dr.D.Valavan, Principal, Dr.C.Krishnakumar, HoD/EEE and Heads of Various departments** at the Board Room.
9. Top 3 winners are, **B.IRFHANNA AMEER / IIIyr / ICE, N.VANDHANA / IIIyr / IT, and S.MADHU SHREE / IIyr / EEE** received an “**Intel based UP² Grove IoT Development Kit**” worth Rs.40,000/- each.





SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Greetings..! The following students from various branches are selected for the next round of "*Processor For Brainy*" Contest. Short listed students are instructed to present their selected topic on 30.01.2019 & 31.01.2019 at EEE Seminar Hall

*S.No 1 to 15 - should present their topic on 30.01.2019 from 09.45 A.M to 03.00 P.M

*S.No 16 to 30 - should present their topic on 31.01.2019 from 09.45 A.M to 03.00 P.M

S.NO	YEAR	DEPT	NAME	TITLE
1	III	CIVIL	V.SHRINIVASHINI	IOT based smart city and its development
2	III	ECE	M.CLAUDIUS GRACE	IOT (Agriculture and irrigation)
3	II	ECE	S.PADMA SHRUTHI	IOT based smart city
4	II	EEE	S.MADHU SHREE	IOT based smart agricultural monitoring system
5	III	EEE	K.GOWTHAM	A Novel contemporary approach for rural development to facilitate enhanced resource Management and yield - smart farmer
6	III	EEE	N.MOHAMED NASRULLAH	High ambient temperature control in poultry farming
7	III	EEE	G.V.HEMA DHARSHINI	E-Healthcare services
8	III	EEE	R.INDHU	Smart city and its development
9	III	EEE	A.E.MANISH	A novel approach to eradicate pre-existing detriments in public toilets to be incorporated with smart cities-intelligent toilets
10	II	EEE	V.SAKTHI RAJA	Innovation in agriculture
11	III	ICE	B.IRFHANNA AMEER	IOT based automatic irrigation system
12	III	ICE	R.S.SANCHHANI	IOT - smart devices and personal assistance
13	III	ICE	B.AKSHAYA	A multisensor intelligent device for real- time multiphase flow metering in oil fields
14	III	IT	KARTHIKA.V	Agriculture Monitoring System
15	III	IT	I.THUSNEEM FIRTHOSE	IOT Irrigation and monitoring system



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.NO	YEAR	DEPT	NAME	TITLE
16	III	IT	R.INDUMATHY	Sign language conversion using MLP
17	III	IT	G.VAISHNAVI	IOT based E-healthcare services
18	III	IT	V.SWETHA	E-Healthcare services
19	III	IT	M.LAKSHMI RATHNAA	E-Healthcare services
20	III	IT	T.B.SUSMITHA	Smart glove for American sign language communications
21	II	IT	C.RANJITHKUMAR	Automated maintenance
22	II	IT	R.MIRUNALINI	Agriculture and farming
23	III	IT	C.SUSHMITHA	Traffic avoidance using IOT
24	III	IT	M.PRIYADARSHINI	Underground pipeline surveillance
25	III	IT	SIVAGANESH	Smart building using IOT
26	III	IT	S.A.RAESA TANZILA	Smart city and its development
27	III	IT	N.VANTHANA	IOT based project on energy meter
28	III	IT	S.JENIFER INFANTA	Agriculture and farming
29	III	IT	N.ARUNA	Agriculture and farming
30	III	IT	T.INBA	Agriculture and farming

EVENT COORDINATOR

HoD/EEE

PRINCIPAL



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE & Affiliated to Anna University)

TRICHIRAPPALI 620012

Department of Electrical and Electronics Engineering

Certificate

This is to certify that Ms. S.MADHU SHREE of 2nd year EEE, Saranathan College of Engineering -Trichy, has participated and won 2nd Prize in the contest

“Processor For Brainy”-sponsored by INTEL Software Bangalore

Held on 23/02/2019

Dr. C.Krishnakumar
Head of the Department

Mr. R.VIJAY
Course Convenor

Dr. D. VALLAVAN
Principal