

MESSAGE FROM THE HOD'S DESK

Hearty welcome and best wishes to all the individuals who receive this newsletter. It gives me great pleasure to present the first issue of "SPARKZ" for the academic year 2019-2020. I cheer the students to work hard and put in their best efforts towards their technical endeavors so that it may yield prolific results. I would like to thank all my colleagues for their diligent efforts to help the department progress at a very steady rate of knots. We as a team strive hard to take the department to the height of success, glory and to achieve our vision.

THE EDITORIAL TEAM**CHIEF EDITOR:****Dr.E.KALIAPPAN,****PROFESSOR & HOD/EEE****EDITOR:****Ms.B.PONKARTHIKA,****ASSISTANT PROFESSOR/EEE****EDITORIAL MEMBERS:****KOUSHIKA PREETHI A- III A****INDUJA U-III A****S.S.SIVANEE-III B****SAI MALAVIKA
VENKATESH-III B****G.GUNASEKARAN - III A****S.MALINI PREETHI- II A****EVANSEA TRACY-II A****SRIKUMARESH-II B****YASHWANTH KUMAR -III B****R.SRI RAJA SUMAN - II B**COURSES OFFERED:

- BE- ELECTRICAL & ELECTRONICS ENGINEERING
- ME- EMBEDDED SYSTEM TECHNOLOGIES
- PH.D/M.S(RESEARCH)

**The Department is
Accredited by NBA**

VISION OF THE DEPARTMENT

To produce graduates with foundation in Electrical and Electronics Engineering who can cater to the dynamic needs of the industry and to provide a diverse and stimulating environment for quality research.

MISSION OF THE DEPARTMENT

- M1.** To align the teaching learning process and to provide basic foundation for the students to adapt to the changing industrial needs
- M2.** To enrich with the latest developments through seminars, guest lectures, workshop and paper presentations
- M3.** To awake young minds to acquire knowledge continuously and learn to apply it
- M4.** To attain multidisciplinary problem solving skills, social awareness and confidence required to excel in their chosen field
- M5.** To develop professional competency and technical expertise individually and through team effort thereby exhibit leadership in industry
- M6.** To create research oriented mindset and focus in fulfilling growing demands of society through mentoring and motivation

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

1. Graduates will have fundamental and broad knowledge in Electrical Sciences relating to industrial applications and research to design, analyze and synthesize information from various sources and think differently to provide solutions to their discipline
2. Graduates will become entrepreneurs, employees of reputed organizations, pursue higher studies and research for developing advanced skills in Electrical and Electronics Engineering
3. Graduates will exhibit technical and intellectual competency and will be amenable for life-long learning
4. Graduates will demonstrate technical knowledge and ethical values for professional development to meet the societal needs
5. Graduates will be able to work in multi-disciplinary environment by providing solutions to real time problems.

ACTIVITIES CONDUCTED BY DEPARTMENT

Society of Electrical & Electronics Engineers:

The department of Electrical and Electronics Engineering Organized a National level Technical Symposium “SPANGLES’2020” on 06.01.2020. The honorable chief guest of the day, Mr.G.Francis Arulnandam, Assistant General Manager, Petrofac Engineering Services India Private Limited, inaugurated the symposium. The Chief guest released the souvenir and it was received by other dignitaries on the dias. Students from 20 different colleges from all over the state participated in various technical and non technical events conducted. Symposium witnessed over 200 enthusiastic participation of who showcased their talents and abilities.



Anna University Sponsored FDP:

The department of Electrical and Electronics Engineering conducted a Six days Anna University Sponsored FDTP on “IC8451-Control Systems” was inaugurated by Dr.P.Lakshmi, Professor, EEE College of Engineering Guindy,Anna University Chennai on 02/12/2019.



Outreach Programme:

The department of Electrical and Electronics Engineering has conducted an awareness camp on Energy saving and Green Energy technology at the Jaigopal Garodia Hr.Sec School, Nanganallur, on 05.12.19. About 100 students at Plus one and Plus Two level attended the programme.



The department of Electrical and Electronics Engineering has conducted an awareness camp on Energy saving and E-mobility at the Narayana Junior college, Poonamali, on 06.12.19.

FACULTY ACHIEVEMENTS & ACTIVITIES

Journal Publications:

S.No.	Paper
1.	J.Gowrishankar,D.FathemaFarzana,E.Kaliappan,G.V.Chidambarathanu,K.Puspakarthisk “Modeling of PV array for DC -DC Flyback converter with Asymmetrical output voltage ” International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2249-8958, Volume-8 Issue-6S3, September 2019.
2.	E. Kaliappan, B. Ponkarthika, J. Gowrishankar, G. Vignesh, V. Vijeesh,” Wireless Monitoring of Industrial Drives Using Internet of Things Technology (IOT)”, International Journal of Engineering and Advanced Technology (IJEAT),ISSN: 2249 – 8958, Volume-8, Issue-6S3, September 2019.
3.	B. Ponkarthika, E. Kaliappan, V. Vijeesh, G Vignesh, “Design of Hand Movement based Smart Automation System”, International Journal of Engineering and Advanced Technology (IJEAT)ISSN: 2249 – 8958, Volume-8, Issue-6S3, September 2019.
4.	V. Vijeesh, E. Kaliappan, B. Ponkarthika, G.Vignesh, “Design of Wearable shoe for blind using LIFI Technology”, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8, Issue-6S3, September 2019.
5.	K.V.Thilagar, K. Mala, D.Chandrakala, S.Vijayakumar “Power imbalance control in PV Power plants using delta connected cascaded MLI” Test Engineering and management , ISSN 0193-4120 December 2019.
6.	D.Fathema Farzana, G.V.Chidambarathanu, J. Gowrishankar, “Alleviating congestion by load curtailment using PSO” Test Engineering and management ,ISSN 0193-4120,Volume 82, january 2020.
7.	D.Chandrakala, K.V.Thilagar, S.Vijayakumar, K. Mala “Integrating the solar and wind Energy system using solid state transformer, ISSN 0193-4120, January 2020.
8.	K. Mala, K.V.Thilagar,D.Chandrakala, S.Vijayakumar, U. Om Ezhilan, “Affordable Diagnostic Infused Thermal Incubator” Test Engineering and management , ISSN 0193-4120, Page No. 4685 – 4691, January 2020.
9.	S.Vijayakumar, K.V.Thilagar, D.Chandrakala, K. Mala “Real Time Tracking of Fire Fighters Using IOT Enabled Wireless Sensor Networks” Test Engineering and management , ISSN 0193-4120, volume 82, January 2020.
10.	G.V.Chidambarathanu, D. Fathema Farzana, J. Gowrishankar, Srinivasan ”Accidents preventing smart Helmet Using EEG Sensor”,Test Engineering and management ,ISSN 0193-4120 january 2020.
11.	J Lydia ,”Seamless Communication Models for Enhanced Performance in Tunnel Based High Speed Trains” Lecture Notes on Data Engineering and Communications Technologies,Volume-35,pp.1580-1591,Springer,Cham, 2019/11/07.
12.	J.Lydia ,”Energy Efficient Distributed Unequal Clustering Algorithm with Relay Node Selection for Underwater Wireless Sensor Networks”, Lecture Notes on Data Engineering and Communications Technologies,Volume-35,pp.1521 -1536, , Springer, Cham, 2019/11/07.

FDP attended:

S.No.	Date	Name of the seminar/workshop	Name of the faculty
1	July- Oct 2019	FDTP on Microelectronics: Devices to Circuits	Mrs.D. Chandrakala
2	July- Oct 2019	FDTP on Power System Analysis	Dr.D.Fathema Farzana
3	July- Sep 2019	FDTP on Introduction to smart grid	Dr.K.Mala
4	July- Sep 2019	FDTP on Biomaterials for bone tissue engineering applications	Dr.R.Karpagam
5	July- Sep 2019	FDTP on Fundamentals of Electric Drives	Mrs.K.Shanthi Mrs.N.Priya

Pongal Celebration:



STUDENT ACHIEVEMENTS

NPTEL Online Course Completed Sudents:

Sl.No.	Name of the Student	Name of the Course
1.	Sreeram M	Power System Analysis
2.	Sivanesan A R	Power System Analysis
3.	Akila R B	Software Testing
4.	Chandru M	Introduction to Internet of Things
5.	Malini Preetha S	Introduction to Internet of Things
6.	Darshini S	Biomedical Nano technology



Shivani.A of iii yr b sec has attended a one day workshop in Delhi on 4th of January 2020 conducted by 'VAHANI'. It is a non-profit organization that provides scholarship for undergraduate courses for the most eligible students of the country.

Other achievements:



Praveen kumar and his team won First prize in the Rangoli competition on 13.01.2020.

Sibi Gowtham.K of IV Year got selected to carry out his final year project in ISRO.



EEE Students team presented their project ideas on the Child rescue from bore well on 21/11/19



S.S.Sivaneer, Tejasri, Sai Malavika team won Second Prize in the Project competition and awarded with cash prize of Rs. 25,000/-



Madhevan and Adithya Venkatesh of EEE department has got 5th Rank out of 138 teams As per score @ TN Police Hackathon on 23/11/19.

PROJECT DAY EXPO

EEE Students Displayed Projects:



DC fast Charging using Pulsating current



IOT based smart Alcoholic detector



IOT based Smart Farming Technology



Wireless Mobile Charger using Solar Helmet

School Students Visited the Projects:



IIT Vana Vani School, Adayar



Jawahar Higher Secondary School, Ashok Nagar



Little Oxford Matriculation Higher Secondary School, T.Nagar

PLACEMENT RECORD

Placement Summary as on 21/01/20:

S.No	Name of the Company	No of students placed
1	ACCENTURE	20
2	BOSCH	2
3	BYJUS	2
4	CSS CORPARTION	1
5.	ECON SYSTEMS	1
6.	EMBERUR SYSTEMS	1
7.	ETHNUS	1
8.	FULL CREATIVE	1
9.	HCL TSS	2
10.	HEXAWARE TECHNOLOGIES	4
11.	IBM	1
12.	INFOSYS	1
13.	L&T INFOTECH	2
14.	MPHASIS	2
15.	SUTHERLAND GLOBAL SERVICES	11
16.	TATA ELXSI	1
17.	TCS NINJA	12
18.	WHIRLDATA SCIENCE	1
19.	WIPRO	1
20.	ZOHO CORPORATION	2
Total No of Students Placed		69*

UG Students:

S.No	Name of the students	Name of the company
1.	BARATH SRINIVAS B	ACCENTURE
2.	DINAKARAN A	ACCENTURE
3.	EUNICE A	ACCENTURE
4.	GANAPATHI S	ACCENTURE
5.	GOWTHAM E	ACCENTURE
6.	KOUSALYA M	ACCENTURE
7.	MANIBHARATHI R	ACCENTURE
8.	MUTHU MEERA S	ACCENTURE
9.	NANDHINI G	ACCENTURE
10.	NISHANTH R	ACCENTURE
11.	PAVITHRA R K	ACCENTURE
12.	RINI JOHN	ACCENTURE
13.	RITHU PRIYANGA M	ACCENTURE
14.	SATHIYENDRAN M	ACCENTURE
15.	SHANMUGA PRIYA V	ACCENTURE

S.No	Name of the Company	No of students placed
16.	SHRUTHI T	ACCENTURE
17.	SUBHASHINI S	ACCENTURE
18.	SUSHMITA M S	ACCENTURE
19.	SWETHA LAKSHMI A B	ACCENTURE
20.	TINO ISAAC I	ACCENTURE
21.	ANAND VIGNESH R	BYJUS
22.	ARVIND VISHWANATH S	BYJUS
23.	Vaishnavi	CSS CORPARTION
24.	ADHITHIYA VENKATESH K	ECON SYSTEMS
25.	MADHEVAN P R	EMBEDUR SYSTEMS
26.	VENKATESH R	ETHNUS
27.	NIVEDHITHA M	FULL CREATIVE
28.	HAMSA PRIYA S	HCL TSS
29.	VAISHNAVI S	HCL TSS
30.	APARNA R	HEXAWARE TECHNOLOGIES
31.	RAMAKRISHNAN G	HEXAWARE TECHNOLOGIES
32.	SUKUMARAN M	HEXAWARE TECHNOLOGIES
33.	MONISH V	HEXAWARE TECHNOLOGIES
34.	SWATIKA R	IBM
35.	KAVIN R M	INFOSYS
36.	SUDARSHAN M	L&T INFOTECH
37.	THANIGAIVELAN R	L&T INFOTECH
38.	AKSHAYA S B	MPHASIS
39.	GOVARTHANAN M	MPHASIS
40.	MADHUVANTHI	SUTHERLAND GLOBAL SERVICES
41.	DEEPAK VENKATESH	SUTHERLAND GLOBAL SERVICES
42.	MOHAN. M	SUTHERLAND GLOBAL SERVICES
43.	ROSHAN	SUTHERLAND GLOBAL SERVICES
44.	BALAJI N	SUTHERLAND GLOBAL SERVICES
45.	GOWTHAM R	SUTHERLAND GLOBAL SERVICES
46.	ISVARIYA G	SUTHERLAND GLOBAL SERVICES

PLACEMENT RECORD

S.No	Name of the students	Name of the company
47.	KAVIN R M	SUTHERLAND GLOBAL SERVICES
48.	KISHORE KUMAR R	SUTHERLAND GLOBAL SERVICES
49.	MONISH V	SUTHERLAND GLOBAL SERVICES
50.	VIJAYAVIGNESH A	SUTHERLAND GLOBAL SERVICES
51.	ANIRUDH S	TATA ELXSI
52.	ASWATH RAM A S	TCS NINJA
53.	EUNICE A	TCS NINJA
54.	MOHAMED SAFAAITH HUSSAIN A	TCS NINJA
55.	PAVITHRA R K	TCS NINJA
56.	PRASHANTH M	TCS NINJA
57.	RINI JOHN	TCS NINJA
58.	SATHIYENDRAN M	TCS NINJA
59.	SEETHARAMAN J R	TCS NINJA

S.No	Name of the students	Name of the company
60.	SUSHMITA M S	TCS NINJA
61.	SWETHA VILASHINI B	TCS NINJA
62.	VARUN SEKAR V G	TCS NINJA
63.	HARINI.B.R	TCS NINJA
64.	HEMANTH KUMAR M	WHIRLDATA SCIENCE
65.	NIVEDHITHA M	WIPRO
66.	BENEDICT ELIGIUS J	ZOHO CORPORATION
67.	THABASSUM ASHIFFA I	ZOHO CORPORATION

PG Students

S.No	Name of the students	Name of the company
1	V R HEMASRI RAMYA	ROBERT BOSCH
2	SUDHARNA VINAYAGAM	ROBERT BOSCH

Congratulations to all the placed students.

CLUB ACTIVITIES

Green Energy Club:



On 21/1/2020 , Design of fast charger for Electric Vehicle working was explained and demonstrated by Mohammed Kaif of II EEE B. It is used for developing renewable energy related products.

Electronics Hobby Club:



A Project display event was conducted on 25/1/2020 by the students of electronic hobby club. Four batches from EEE dept evinced interest and displayed their project to the club members. This created an interest among student members of the club to involve themselves in few electronic hobby projects

CLUBS & ACTIVITIES

FOSS Club:

Event : Free & Open Source Software Day'2020
Date : 23/01/2020



FOSS club has conducted the Free and open source software day'20. Around 20 Free and open source softwares used Electrical industry were explored to the students participants and club members. Certificates were presented at the end of the program

Energy Club:

ENERGY CLUB
PRESENTS
SUSTAINABLE SANTA

"It's not how much we give but how much love we put into giving"

✓ "Join us to put smile on many faces by donating any old books clothes, stationary, indoor games this Christmas"

DATE: 19/12/19- 23/12/19 Contact-Shalini-8072219486

Boxes are available at ground floors of Electronics block-1, mechanical block, civil block



INVENTIONS IN THE FIELD OF ELECTRICAL AND ELECTRONICS:

Thor ET-One

Tesla is not the only one in the market creating electric semi-trucks. The startup Thor's latest invention centers around a sleek and power electric semi-truck.

With the ability to carry **36,000 kilos** up to **300 miles**, the Thor ET-One is sure to shake up the semi-truck industry while creating a greener planet. The truck looks like Optimus Prime's cooler cousin



Solar Charged Jacket

If you are a night runner, then this one's for you. Created by U.K.-based sports-gear startup, Vollebak, the Solar Charged Jacket phosphorescent membrane absorbs light during the day and releases its "kryptonite green energy" for those who need to be safe after dark.



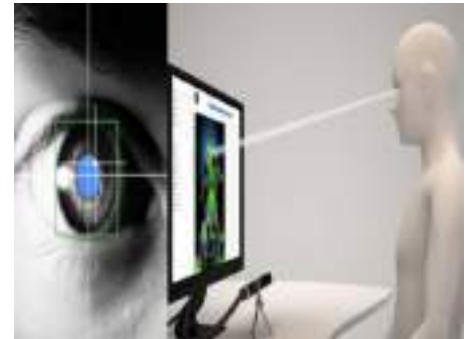
Zipline

The California-based startup Zipline intends to use drones to save lives. The company uses its drones in remote areas across the world to deliver vital supplies and even the delivery of blood. Their latest drone invention can carry up to almost 2 kilograms at 128 kmph for up to 160 kilometers round trip.



Eye Tracking Technology

As many consumers develop an adversarial relationship to conventional digital advertising, eye tracking becomes more essential not only to deliver commercial messages, but to better understand what information is of greatest interest. As it has matured, eye tracking technology has grown into an important frontier in accessibility for the disabled, allowing technology access through eye movement. Sensitive electronic sensors are the basis of virtually all eye tracking.



Eargo



The United States based company, Eargo is here to add a little disruption to the hearing aid market. With 48 million Americans suffering from hearing loss, the team hopes that their easy to use comfortable product will give these people (those with mild and moderate hearing loss) the ability to hear again.

LynQ



Getting separated from friends or a family member at an event or festival can be annoying. LynQ helps you find your friends and family when you get separated from the group. Unlike smartphones, compass-like devices do not need any wifi to stay connected. It is a great tool for family vacations

GALLERY

ART:



JAI SHREE S- III A



ASWATH RAM A.S- IV A



SHYAMSUNDAR A- III B



KOUSHIK KUMAR.K.H- II A