



# EASWARI ENGINEERING COLLEGE (AUTONOMOUS INSTITUTION) DEPARTMENT OF EEE (NBA Accredited)

## SPARKZ '21

DECEMBER | 2021

Vol No : 02



DEPARTMENT OF  
ELECTRICAL & ELECTRONICS  
ENGINEERING

### 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 fourth issue of "SPARKZ" for the academic year 2021-22. 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:

VENKATESH H EEE-III-B  
HARISH V EEE-III-A

#### CO-ORDINATORS:

MALINI PREETHI.S EEE-IV-A  
EVANSEA TRACY.T EEE-IV-A  
SRIKUMARESH. B EEE-IV-B  
SRI RAJA SUMAN.R EEE-IV-B

#### COURSES OFFERED:

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

#### For More Updates:

[https://linktr.ee/eee\\_srmeaswari](https://linktr.ee/eee_srmeaswari)



### VISION OF THE DEPARTMENT

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

### MISSION OF THE DEPARTMENT

- M1.** To align the teaching-learning process and to provide a 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 the industry
- M6.** To create a research-oriented mindset and focus on fulfilling the 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 competence 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 a multi-disciplinary environment by providing solutions to real-time problems.

# ACTIVITIES CONDUCTED BY THE DEPARTMENT



“2nd International e-conference on challenges and opportunities in renewable energy, smart systems and e-mobility” (**ICCORSE-2021**) was conducted on 07.10.2021 & 08.10.2021. The session was handled by, Dr. J. Daniel Chellappa Eminent Nuclear Scientist, Chennai. Dr. GwanggilJeon Professor, Department of Embedded Systems Engineering Incheon, Dr. S. Seetharamu Former Director CPRI & Mr.Sivam Former Senior Scientist, DRDO.



Webinar was conducted on "Job Market Post COVID-19 and Placement Preparedness" on 18.09.21, between 10.30 am-11.30 am. The session was handled by Ms.Monishaa Sridharan, EEE Alumni 2012-2016 batch, Product Marketing Specialist, Zoho Corporation, Chennai



Webinar was conducted on "Space vector modulation for Three phase Inverters" on 24.09.21, between 1.30 pm - 02.30 pm. The session was handled by Dr. S. Ganesh Kumar, Assistant Professor, Department of Electrical & Electronics Engineering, College of Engineering Guindy, Anna University, Chennai



Webinar was conducted “Impact Lecture session-Transform Yourself into a Successful Entrepreneur & Role of IPR in Innovation & Entrepreneurship” on 24.09.21, between 10.30 am-11.30 am. The session was handled by Mr.T .Vigneshwaran, Founder and CEO, Nandha Infotech, Coimbatore and Speaker Mr.A.K.Balaji, R.K.Dewan & Co, Chennai

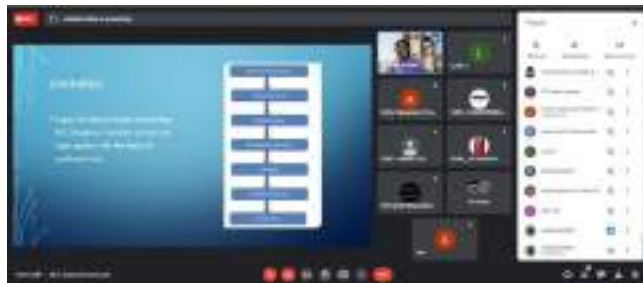


Webinar was conducted on “ Machine Learning applied to Electrical Machines” on 18.09.21, between 10.30 am-11.30 am. The session was handled by Mr.R.Kedarnath, Manager, Cognizant Technology Solutions, Chennai.

Institute of Electrical and Electronics Engineers STB61311-IEEE Student Branch Easwari Engineering College inaugural Function was conducted on 12.10.2021 (Tuesday) 3:00 pm. The session was handled by Dr. N. Kumarappan Chairman, IEEE Madras Section, Chennai.



Webinar was conducted on "Digital Logic Circuits and Linear Integrated Circuits on the topic IC Design: Architecture to Tapeout" on 23.10.21, between 10.30AM-11.30AM. The session was handled by Ms.Vaishali Sridhar, CPU Implementation Engineer, Apple, USA.



Webinar was conducted on "Flyback Converter" on 15.11.21, between 10.30AM-11.30AM. The session was handled by Mrs. Merlin N J, Ph D. Scholar (Prime Minister's Research Fellows), National Institute of Technology, Tiruchirappalli.



Webinar on "Cyber security in Automotive" on 25.11.2021 between 11.15 am to 12.30 pm. The session was handled by Mr.Venkatachalam Varatharaj, Technical Lead Robert Bosch Engineering and Business Solution, Coimbatore.



## FACULTY ACHIEVEMENTS

S.No	Name of faculty	Topic	Published Month
1	Dr.P.Marish Kumar	"Artificial neural network-based output power prediction of grid-connected semi-transparent photovoltaic system", Environmental Science and Pollution Research, <a href="https://doi.org/10.1007/s11356-021-16398-6">https://doi.org/10.1007/s11356-021-16398-6</a> ,13	September 2021
2	Dr.R.Karpagam	"Effects of strontium-containing fluorophosphates glasses for enhancing bioactivity and enamel remineralisation" 111496.	September 2021

3	Mrs.J.Lydia	“Improvement of Multipath Channel Performance for Optical MIMO-OFDM in LED Modulation with Fully Generalized Spatial-Frequency”, Smart Intelligent Computing and Communication Technology, IOS Press.	November 2021
4	Dr.R.Karpagam	“Design And Simulation Of High Gain Microstrip Patch Antenna Using Fabricated Perovskite Manganite Added Polymer Nanocomposite For Multiple Input And Multiple Output System”, ISBN 9780367554385, <a href="https://doi.org/10.1201/9781003093558">https://doi.org/10.1201/9781003093558</a> , CRC press, Taylor and Francis group Forthcoming by	November 2021
5	Mr.T Kesavan, Dr.E.Kaliappan, Ms.B.Ponkarthika Dr.D.Fathema Farzana	Patent Published- “Implementation Of Smart Monitoring System For Leakage Current And Excess Power Harvesting System For Industrial Application”	November 2021

## ONLINE COURSE-COURSERA

Sl.No	Name of The Faculty	Designation	Name of the Course
1.	Dr. E. Kaliappan	Professor & Head	Renewable Energy and Green Building Entrepreneurship
2.	Ms. B. Ponkarthika	Assistant Professor	Renewable Energy and Green Building Entrepreneurship
3.	Dr. E. Kaliappan	Professor & Head	Renewable Power and Electricity Systems
4.	Dr. D. Fathema Farzana	Assistant Professor	Renewable Power and Electricity Systems
5.	Ms. B. Ponkarthika	Assistant Professor	Renewable Power and Electricity Systems
6.	Dr. D. Fathema Farzana	Assistant Professor	Renewable Energy and Green Building Entrepreneurship
7.	Mrs.D.Chandrakala	Assistant Professor	Renewable Energy and Green Building Entrepreneurship
8.	Mrs.D.Chandrakala	Assistant Professor	Renewable Power and Electricity Systems
9.	Mrs.D.Chandrakala	Assistant Professor	Introduction to Semiconductor Devices I

**Mrs.J.Lydia** has received the certificate of recognition from The Academic Council of Ulektz as one of the Top 20 Expert Faculties in the field of Electrical, Electronics, Civil, Mechanical & Aeronautical Engineering for the year 2020

## ONLINE COURSE-NPTEL

<u>Elite + Gold</u>		<u>Elite + Silver</u>
Electric Vehicles and Renewable Energy	Stress Management	Stress Management
		
Dr. K. Mala	Mrs. K. A. Indusailaja	Mrs. J. Lydia
Associate Professor	Assistant Professor	Assistant Professor

<u>Successfully completed</u>				
Stress Management	Fundamentals of Artificial Intelligence	Introduction to smart grid	Fundamentals of Artificial Intelligence	Introduction to smart grid
				
Dr. P. Marish Kumar	Dr. P. Marish Kumar	Mrs. N. Priya	Mrs. K. A. Indusailaja	Mr. T. Kesavan
Assistant Professor	Assistant Professor	Assistant Professor (Sl. Grade)	Assistant Professor	Assistant Professor

## STUDENT ACHIEVEMENTS

### Internship Details - Sep to Nov 2021

Sl.No	Batch	Name of the student	Name of the Industry / Organization
1	2020-2024	Vikas V	Verzeo(IOT)
2	2019-2023	Ajay.G	Jindal southwest
3	2019-2023	Kathir Selvan G	SRM Technologies, KTR
4	2019-2023	Logeshwaran M	NSIC,Chennai & SRM Technologies, KTR

5	2019-2023	Logaprasad T	NSIC,Chennai & SRM Technologies, KTR
6	2019-2023	Manikandan G.	NSIC,Chennai & SRM Technologies, KTR
7	2019-2023	Navin Mouli V	NSIC,Chennai & SRM Technologies, KTR
8	2019-2023	Pranava Kumar J	NSIC,Chennai & SRM Technologies, KTR
9	2019-2023	Selva Muthu Kumaran S	NSIC,Chennai & SRM Technologies, KTR
10	2019-2023	Sudipth Ajitesh S	NSIC,Chennai & SRM Technologies, KTR
11	2019-2023	Thamizh Thendral	NSIC,Chennai & SRM Technologies, KTR
12	2019-2023	Venkatesh H	NSIC,Chennai & SRM Technologies, KTR
13	2019-2023	Vishali R	NSIC,Chennai & L&T Chennai
14	2019-2023	Kowsalya G	NSIC,Chennai & L&T Chennai
15	2019-2023	Ramya V	NSIC,Chennai & L&T Chennai
16	2019-2023	X.Thanyaa	NSIC,Chennai & L&T Chennai
17	2019-2023	Naveen G	Airports Authority of india(AAI)
18	2019-2023	Sasindhan D	Airports Authority of india(AAI)
19	2019-2023	Solomon raja R	Airports Authority of india(AAI)
20	2019-2023	N.Deepakraj	NSIC,Chennai
21	2019-2023	Aishwarya.R	NSIC,Chennai
22	2019-2023	Narendran R	NSIC,Chennai
23	2019-2023	Divyadharshini V	NSIC,Chennai
24	2019-2023	Dwaraka. V. R	NSIC,Chennai
25	2019-2023	Gunashree M N	NSIC,Chennai
26	2019-2023	Ramakrishnan S	NSIC,Chennai
27	2019-2023	M. Nithya Sree	NSIC,Chennai
28	2019-2023	A.M Sahana	NSIC,Chennai
29	2019-2023	T.K Sathya Madhesh	NSIC,Chennai
30	2019-2023	M. Venkatesh	NSIC,Chennai
31	2019-2023	S. Ibrahim Muadh	NSIC,Chennai
32	2019-2023	B.A. Lalith Kumar	NSIC,Chennai
33	2019-2023	Adheswaran M	NSIC,Chennai
34	2019-2023	Bharath kumar M	NSIC,Chennai
35	2019-2023	Bharathraj N	NSIC,Chennai
36	2019-2023	Denilson S	NSIC,Chennai
37	2019-2023	Dilli Kumaran M	NSIC,Chennai
38	2019-2023	Hariharan M.N	NSIC,Chennai
39	2019-2023	Ibrahim Muadh S	NSIC,Chennai
40	2019-2023	Jagadeeswaran M	NSIC,Chennai
41	2019-2023	Jeevasekaran S	NSIC,Chennai
42	2019-2023	Jeyanthi Yegammai.S	NSIC,Chennai
43	2019-2023	V.Varrshini	NSIC,Chennai
44	2018-2022	Amudha M	Emertxe Information Technologies
45	2018-2022	Ponraj Krishna.J	Larsen and Toubro

**Urjanet Solutions Pvt Ltd: Stipend: Rs.20,000 / Month**



Ranjani S- IV B






Jaissri S-IV A








Harini B-IV A

**Introduction to Industry 4.0 and Industrial Internet of Things**






<b><u>Elite + Silver</u></b>		
		
Deepakraj. N	Rajaachudhan. S. V	Selvaganesh. R
III/ V/ A	III/ V/ B	III/ V/ B

**Elite**

				
Divyadharshini V	Aishwarya V	Dwaraka. V. R	Gunashree. M.	Ajmal Rifayudeen. M
III/ V/ A	III/ V/ A	III/ V/ A	III/ V/ A	III/ V/ A

**Elite**

**Successfully completed**

Introduction to industry 4.0 and Industrial Internet of Things		Introduction to industry 4.0 and Industrial Internet of Things		Computer Vision
				
R Aakash. R	Visvaraj. S	Harish. V	Varrshini. V	Arjun. S
III/ V/ A	III/ V/ B	III/ V/ A	III/ V/ A	III/ V/ A





K.Christober of II year EEE won the State level Powerlifting bench press championship with a bronze medal-2021.

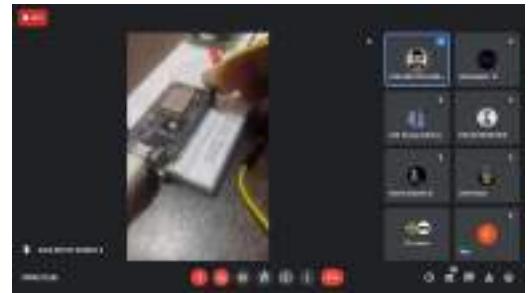
## CLUB ACTIVITIES

### ENERGY CLUB

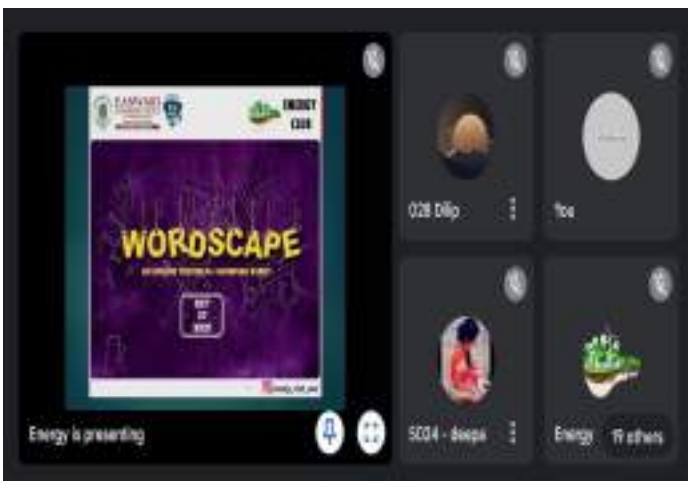


The Pictionary event was conducted on 27.09.2021 through Google meet.

### FOSS CLUB



Virtual training session was conducted on "Blynk IoT Platform" by R.Muthukumar, III EEE B on 11.09.2021 between 10.30 am and 11.30 am.



An online technical hangman event was conducted on 27.10.2021.



Investiture Ceremony of office bearers for the academic year 2021-22 followed by a lecture on Electrical Simulation Software Guest Speaker Mr.A.Aravind Raj, R&D Engineer, Technology & Solutions Development, FACTS, Hitachi Energy, Chennai on 27.11.2021 between 10.30 am to 11.30 am.

## JOURNAL CLUB



## CENTRE FOR EXCELLENCE IN RENEWABLE ENERGY RESEARCH



Presentation on “Spider Robot” by R.Muthukumar III B on 04-09-2021 between 11-11.30 AM.



Skill development training program on “Design, Installation & Operation of Smart Grid Connected Photovoltaic Power systems” to the Second year students on 09/10/2021 .The session was handled by Mr.G.Vignesh, Assistant Professor, Department of EEE.

## PLACEMENT DETAILS

We congratulate the following students who have been selected by various companies.

S.No	Name of the Company	No of offers
1.	ACCENTURE	4
2.	ATOS GLOBAL	6
3.	CTS GENC ELEVATE	15
4.	CSS CORP	1
5.	DATA PATTERNS	3
6.	HEXAWARE TECHNOLOGIES	1
7.	KAAR TECHNOLOGIES	1
8.	LATENTVIEW	1
9.	MUSIGMA	1
10.	PRODAPT	9
11.	RAPTEE ENERGY PVT. LTD	1
12.	TATA ELXSI	1
13.	TCS NINJA	7
14.	URJANET SOLUTIONS PVT LTD	3
15.	WIPRO	10
16.	ZOHO CORPORATION	1
<b>Total no. of offers</b>		<b>65</b>
<b>Total No.of Students with dual offers</b>		<b>9</b>
<b>Total No.of Students with Triple offers</b>		<b>2</b>
<b>Total No.of Students Quadruple offers</b>		<b>1</b>

### **UG STUDENTS:**

S.No	Name of the students	Name of the company	S.No	Name of the students	Name of the company
1	SHREENITHI V	ACCENTURE	25	MOHAMED KAIF	PRODAPT
2	AMUDHA M	ATOS GLOBAL	26	PRIYADHARSHINI D	PRODAPT,WIPRO

<b>3</b>	CELESTIN JACOB	ATOS GLOBAL	<b>27</b>	RAKSHANA V	<b>PRODAPT,HEXAWARE TECHNOLOGIES</b>
<b>4</b>	DHANASEKAR.J.N	ATOS GLOBAL	<b>28</b>	SADHANA.S	<b>PRODAPT,CTC GENC</b>
<b>5</b>	INDHUJA.K.S	ATOS GLOBAL	<b>29</b>	SIDDHARRTH K	<b>PRODAPT,WIPRO</b>
<b>6</b>	R SRI RAJA SUMAN	ATOS GLOBAL	<b>30</b>	SRIINDHUNESAN.M	<b>PRODAPT,CTC GENC,ACCENTURE</b>
<b>7</b>	SHALINI.B	ATOS GLOBAL	<b>31</b>	MOHMED YAKUB SIKANDER	RAPTEE ENERGY PVT. LTD
<b>8</b>	DIVYA.S	CTS GENC	<b>32</b>	SRINIVASA.N.R.	TCS NINJA
<b>9</b>	DUYAVAN.M	CTS GENC	<b>33</b>	SWETHA.R	TCS NINJA
<b>10</b>	JYOTHI PRAKASH	CTS GENC	<b>34</b>	KANDHAN.M	TCS NINJA
<b>11</b>	KAUSALYA.S	CTS GENC	<b>35</b>	PRASHANTH.B	<b>TCS NINJA,WIPRO,CTC GENC,ACCENTURE</b>
<b>12</b>	KAVITHA.R	CTS GENC	<b>36</b>	KEERTHIKA S	<b>PRODAPT</b>
<b>13</b>	MALINI PREETHA S	CTS GENC	<b>37</b>	PRAVEEN KUMAR A	TCS NINJA
<b>14</b>	SHREEJA.R	CTS GENC	<b>38</b>	HARI PRASATH.M	TCS NINJA
<b>15</b>	VISHALI.K.	CTS GENC	<b>39</b>	RANJANI.S	URJANET SOLUTIONS PVT LTD
<b>16</b>	CHANDRU.M	<b>CTS GENC , WIPRO</b>	<b>40</b>	HARINI.B	URJANET SOLUTIONS PVT LTD
<b>17</b>	EVANSEA TRACY T	CSS CORP	<b>41</b>	JAISSRI S	URJANET SOLUTIONS PVT LTD
<b>18</b>	THIRUMARAN K	DATA PATTERNS	<b>42</b>	KOWSICK.N	WIPRO
<b>19</b>	VINOD KUMAR. R	DATA PATTERNS	<b>43</b>	MUKESH KUMAR R	<b>WIPRO,CTC GENC</b>
<b>20</b>	YASHANIEE B V	KAAR TECHNOLOGY	<b>44</b>	NANDHINI.M	<b>WIPRO,CTS GENC</b>
<b>21</b>	KEERTHANA K	LATENTVIEW	<b>45</b>	NITHEESH.P	<b>WIPRO,DATA PATTERNS</b>
<b>22</b>	PRIYADHARSHINI R	<b>MU SIGMA,ACCENTURE</b>	<b>46</b>	SANJEEV KUMARR. R	WIPRO
<b>23</b>	MANIMARAN R	PRODAPT	<b>47</b>	HRITHIK RAJ.R	ZOHO CORPORATION
<b>24</b>	MOHAMMAD AZFAR.W	<b>PRODAPT,WIPRO,CTC GENC</b>	<b>Total Students Placed</b>		<b>47</b>

### **PG STUDENTS:**

<b>S.No</b>	<b>Name of the students</b>	<b>Name of the company</b>
<b>1</b>	RUBEENA BEULA C	TATA ELXSI
<b>2</b>	DHIVYA DHARSAHANA	TCS NINJA
<b>Total Students Placed</b>		<b>2</b>

# GALLERY

## ART WORK



**PRIYANKA S**  
20105031  
EEE - II year



**GAURANG ADHITH V S**  
EEE - I YEAR



**SANTHOSH KRISHNAN**  
EEE- I YEAR

## ARTICLE

DEAR DIARY

- G. ADHEEL AHAMMED  
1<sup>ST</sup> YEAR EEE

Today I am not here to complain  
Nor am I speaking in vain  
Resting the usual rant  
I'm grateful for every gain.

Today I'm not here to brood  
Nor am I here for a feud  
Am glad I'm living this day  
I'm grateful for this mood.

Today I am not here to cry  
Nor am I here to sigh  
I'm here for lifelong and I'm strong  
I am grateful and I move along.

ADHEEL AHAMMED G  
EEE I YEAR

## PHOTOGRAPHY



Dinesh H- EEE II year