

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# NEWSLETTER





VOLUME 6, ISSUE 4 September 2020

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## **VISION AND MISSION OF THE DEPARTMENT**

#### Vision:

To be the **centre of higher learning** in the field of Electrical and Electronics Engineering by educating the students to meet the **global challenges** with **professional ethics and social consciousness**.

#### Mission:

- Providing technical, intellectual and ethical environment to the students through knowledge centric education and research.
- Collaborating with industries in the vicinity, nationally and internationally for exposure and **innovation**.
- Enabling the students to serve the society through prolific ideas.

#### Programme Educational Objectives (PEOs)

The Graduates of Electrical and Electronics Engineering will

- **PEO1** Possess an adequate knowledge to meet the needs of the stakeholders and excel in their chosen profession with good communication and managerial skills.
- **PEO2** Adapt to emerging technologies and practice their profession confirming to ethical and human values.
- **PEO3** Continuously improve the habit of self-study through professional development activities.

#### Programme Outcomes (POs)

Graduates of Electrical and Electronics Engineering will be able to:

- **PO1 Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2 Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3 Design/development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

- **PO4 Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5 Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6 The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7 Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9 Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11 Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12 Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

#### Programme Specific Outcomes (PSOs)

Graduates of Electrical and Electronics Engineering will able to:

- **PSO1** Develop skills to the expectations of the dynamic industrial practices in Electrical Engineering and allied areas.
- **PSO2** Analyze, design and integrate various renewable energy sources to meet the energy demand.

# FACULTY DETAILS

S.NO	NAME OF THE FACULTY	DESIGNATION
1.	Dr.V.Kumar Chinnaiyan	Professor & Head
2.	Dr.J.Karpagam	Professor
3.	Dr.K.Mohanasundaram	Professor
4.	Dr.R .Uthirasamy	Associate Professor
5.	Dr.V.S.Chandrika	Associate Professor
6.	Dr.P.Pandiyan	Associate Professor
7.	Mr.S.Vivekanandan	Assistant Professor (Sl.G)
8.	Mr.G.Sarvanan	Assistant Professor (Sl.G)
9.	Dr.A.Karthick	Assistant Professor (Sl.G)
10.	Mr.R.Sampath Kumar	Assistant Professor (Sl.G)
11.	Mr.A.Gowri Shankar	Assistant Professor (Sr.G)
12.	Mr.D.Sathish Kumar	Assistant Professor (Sr.G)
13.	Ms.B.Lalitha	Assistant Professor (Sr.G)
14.	Ms.V.J .Vijayalakshmi	Assistant Professor (Sr.G)
15.	Ms.R .Revathi	Assistant Professor (Sr.G)
16.	Mr.A.Mohamed Ibrahim	Assistant Professor (Sr.G)
17.	Mr.P.Ravikumar	Assistant Professor (Sr.G)
18.	Dr.C.Pazhanimuthu	Assistant Professor (Sr.G)

19.	Dr.S.Ravindran	Assistant Professor (Sr.G)
20.	Mr.V.Kamal Kumar	Assistant Professor
21.	Mr.K.Balamurugan	Assistant Professor
22.	Mr.C.J.Vignesh	Assistant Professor
23.	Ms.S.Divya	Assistant Professor
24.	Ms.P.Praveena	Assistant Professor
25.	Dr.I.Baranilingesan	Assistant Professor
26.	Mr.C.Dinesh	Assistant Professor
27.	Mr.M.Mohanasundaram	Assistant Professor

#### SUPPORTING STAFF

S.NO	NAME OF THE STAFF	DESIGNATION
1.	Mr.M.Vinothkumar	Lab Technician
2.	Mr.C.Gopalakrishnan	Lab Technician
3.	Mr.R.Vinothkumar	Lab Technician
4.	Mr.K.S.M.Manoj Kumar	Lab Technician
5.	Mr.C.Karuppusamy	Lab Technician
6.	Mr.A.Nandhakumar	Office Assistant

#### **ASSOCIATION ACTIVITIES**

#### Webinar on Advance Research Areas on Electrical Machine

The department of Electrical and Electronics Engineering organized a webinar on "Advance Research Areas on Electrical Machine" on 04.09.2020. A heart-warming welcome remark was delivered by Dr.V. Kumar Chinnaiyan, Professor & Head, Department of EEE. Er.Victor Mukherjee, Senior R&D Engineer, ABB Oy (Finland) presented the following deliberations.

- Role of Physics in Machine Design
- Electromagnetic modeling of Induction Machine
- How to design Induction machine by thermal imaging
- How to improve the efficiency of various motors

Students expressed their gratitude towards the resource person for knowledge which he shared. This webinar is interesting for the students. 100 Participants from various institutions have attended the webinar. Mr.C.Dinesh, Assistant Professor, Department of EEE proposed the vote of thanks.



#### **Quiz Series on Driver Assistant Systems in Electric Vehicles**

The department of Electrical and Electronics Engineering organized a Quiz program titled **"Driver Assistant Systems in Electric Vehicles"** on 04.09.2020 open to all, who are keen on emerging EV technologies. The poster is circulated to various Institutions and in social media digitally. The quiz started by 12.00 pm and closed at 08.00 pm. Participants from various colleges, Universities and Industries across India and foreign nations have participated in this quiz.

- This Quiz had 20 questions covering Electric Vehicles available with various companies and countries.
- Each question carries 5 marks.
- The participants who scored 50% and above were issued with Certificate of Appreciation.

The details of the Program Participants are given below:

Total Participants : 217 Participants cleared the quiz and received Certificate : 195 Participants from other Nations, Institutions and Universities : 193 Participants from KPRIET : 24



# Webinar on BLDC Motor and its Applications in Industries and Future Technologies

The department of Electrical and Electronics Engineering organized a webinar on "**BLDC Motor and its Applications in Industries and Future Technologies**" on 18.09.2020 for student's community. A heart-warming welcome remark was delivered by Prof.T.Jagadesh, Assistant Professor, Department of EEE. Er.Sai Ram Surya Chand Dangeti, Electrical Machine Design Engineer, KONE Elevators Private Limited, Chodavaram, presented the following deliberations

- BLDC motor usage in industries
- Loading condition for electrical and mechanical systems
- Design strategies in BLDC motor
- How to improve the efficiency of BLDC motors

Students expressed their gratitude towards the resource person for knowledge which he shared. This webinar is interesting for the students. 74 Participants from various institutions have attended the webinar. Mr.C.Dinesh, Assistant Professor, Department of EEE proposed the vote of thanks.



#### Webinar on National Education Policy 2020 – Higher Education

The department of Electrical and Electronics Engineering organized a webinar on "National Education Policy 2020 – Higher Education" on 25.09.2020 for students community. A heart-warming welcome remark was delivered by Dr.V. Kumar Chinnaiyan, Professor & Head, Department of EEE. Dr. R.L. Josephine, Assistant Professor/EEE, NIT, Trichy presented the following deliberations

- For Schools from 10+2 to 5+3+3+4
- Flexible to choose subjects across streams
- Diluted board, bag less days and multilingual
- No affiliation, Fee cap and Going Glocal

Students expressed their gratitude towards the resource person for knowledge which he shared. This webinar is interesting for the students. 112 Participants from various institutions have attended the webinar. Prof.P.Ravi Kumar, Assistant Professor (Sr.G), Department of EEE proposed the vote of thanks.



**Faculty Members Journal Publications** 

**Lalitha B**, Lakshmi K, Ramya G, **Sampath Kumar R**, Gulam Mohammed Moinuddeen T, "Harmonic Analysis of Reduced Device Count Multilevel Converter", Advances in Mathematics: Scientific Journal, Vol. 9 (10), September 2020.

#### **Students Journal Publications**

- Abarna M, Lourde Teresha A, Devisri R, Maithreyini M, "Helping Hand for Unsighted People - Acousticsight", International Journal of Recent Technology and Engineering, Vol. 9 (3), September, 2020.
- Bavithra P, Infranta Merlin I, Kousalya J, "IoT based Smart Farming", International Journal of Recent Technology and Engineering, Vol. 9 (3), September, 2020.

- Nithika P, Sujitha R, Vannatharini P, "Design and Implementation of Smart GIL System", International Journal of Future Generation Communication and Networking, Vol. 13 (4), September 2020.
- Kamaludeen J, Sriram T, Saravanakumar V, Shabareeshan M, "Crash Detection and Rescue System for Vehicles", International Journal of Future Generation Communication and Networking, Vol. 13 (4), September 2020.
- Chaarumathi P, Divya S R, Divyajothi R, Mehereethaa K V, "Voice Controlled Fire Fighting Robot", International Journal of Recent Technology and Engineering, Vol. 9 (3), September, 2020.
- Chandhini G, Chitra B, Kiruthikadevi P, Bhagya Sasi, "IoT based Underground Drainage Monitoring System", International Journal of Recent Technology and Engineering, Vol. 9 (3), September, 2020.
- Murali Ram S, Prakash S K, Ragghav S, Rahul S, "A Novel Method to Generate Maximum Power Using Maximum Power Point Tracker in Solar PV Systems", International Journal of Future Generation Communication and Networking, Vol. 13 (4), September 2020.
- Subashree P, Nethra M, Rajashree V, Vanmathy P, "Design and Implementation of Smart Medicine Box", International Journal of Future Generation Communication and Networking, Vol. 13 (4), September 2020.
- Samyuktha R, Srinithi G S, Renugasri G, Sumithra S, "Design of Autonomous E -Rationing System", International Journal of Future Generation Communication and Networking, Vol. 13 (4), September 2020.
- Muthunivedha R, Pragadhe S, Susma S, Tharunika S, "Design of Smart Power System", International Journal of Future Generation Communication and Networking, Vol. 13 (4), September 2020.
- Praveen R, Neu Pramod M, Sridhar S R, "Autonomous Indoor Mapping Using Rasphberry Pi", International Journal of Future Generation Communication and Networking, Vol. 13 (4), September 2020.
- Nidyadarsanaa S, Pavithra N, Shalini K, Shanmathi V S, "An Efficient MPPT Controller for Variable Frequency Drives in Water Pumping System", International Journal of Future Generation Communication and Networking, Vol. 13 (4), September 2020.
- Jerine Victor R, Sri Gowtham Priyan U S, Nithin M, Vijay E, "Cost Effective Pyrheliometer for Solar Radiation Measurement", International Journal of Future Generation Communication and Networking, Vol. 13 (4), September 2020.

### List of Eminent Academicians/Scientists Visited

S.No.	Name and Designation	Organization
1	Er. Victor Mukherjee Senior R&D Engineer	ABB Oy, Finland
2	Er. Sai Ram Surya Chand Dangeti Electrical Machine Design Engineer	KONE Elevators Private Limited, Chodavaram
3	Dr. R.L. Josephine Assistant Professor/EEE	National Institute of Technology, Trichy

### **Faculty Internship Details**

S.No.	Name of the Faculty	Name of the Company	Date of the Internship
1	Dr.J.Karpagam	Textro Electronics, Coimbatore	21/09/2020 - 26/09/2020
2	Dr.R.Uthirasamy	Audi, Coimbatore	15/09/2020 - 22/09/2020
3	Dr.V.S.Chandrika	Miracle CNC Application, Hosur	21/09/2020 - 26/09/2020
4	Mr.S.Vivekanandan	Sai Incubation Centre, Coimbatore	23/09/2020 - 30/09/2020
5	Mr.G.Saravanan	Audi, Coimbatore	15/09/2020 - 22/09/2020
6	Mr.R.Sampathkumar	Padmavahini Transformers, Coimbatore	15/09/2020 - 30/09/2020
7	Mr.D.Sathish Kumar	EKKI Pumps, Coimbatore	24/09/2020 - 30/09/2020
8	Ms.B.Lalitha	EKKI Pumps, Coimbatore	24/09/2020 - 30/09/2020
9	Ms.V.J.Vijayalakshmi	Textro Electronics, Coimbatore	21/09/2020 - 26/09/2020
10	Ms.R.Revathi	Padmavahini Transformers, Coimbatore	15/09/2020 - 30/09/2020
11	Mr.A.Mohamed Ibrahim	Magnetic and Controls, Coimbatore	17/09/2020 - 30/09/2020
12	Mr.C.Pazhanimuthu	Padmavahini Transformers, Coimbatore	18/09/2020 - 30/09/2020
13	Dr.S.Ravindran	KPR Sugar Mills, Bijapur	12/09/2020 - 30/10/2020
14	Mr.K.Balamurugan	KPR Dyeing Unit, SIPCOT, Perundurai	07/09/2020 - 12/09/2020
15	Mr.V.Kamalkumar	Sai Incubation Centre, Coimbatore	23/09/2020 - 30/09/2020

16	Mr.C.J.Vignesh	Sai Incubation Centre, Coimbatore	23/09/2020 - 30/09/2020
17	Dr.I.Barani Lingesan	Magnetic and Controls, Coimbatore	17/09/2020 - 30/09/2020
18	Mr.T.Jagadesh	Sai Incubation Centre, Coimbatore	23/09/2020 - 30/09/2020
19	Mr.C.Dinesh	ARK tech Automation Solutions, Coimbatore	16/09/2020 - 30/09/2020

### Faculty Participation in FDP/Seminar/Workshop/Orientation Program

S.No	Faculty Name	Type of the Event	Event Name	Venue	Duration of the Event
1	Mr.A.Mohamed	ATAL	Electric Vehicles	Gyan Ganga Institute of Technology and	01/09/2020
	Iorainni	ГDР		Pradesh	05/09/2020
2			Internet of things for	Dr.Mahalingam College of	07/09/2020
2	Dr.1.Baranilingesan	STIP	Healthcare	Engineering and Technology, Pollachi	12/09/2020
2	Mr. V. Kamallunman	ATAL	Internet of Things (IoT)	Dr.Mahalingam College of	14/09/2020
3	Mr.V.Kamalkumar	FDP	Internet of Things (101)	Engineering and Technology, Pollachi	18/09/2020
		ATAL		Dr.Mahalingam College of	14/09/2020
4	Mr.K.Balamurugan	FDP	Internet of Things	Engineering and Technology, Pollachi	- 18/09/2020
5	Mr.G.Saravanan	FDP	Artificial Intelligence	Oriental College of Technology, Madhya	14/09/2020
			using Python	Pradesh	19/09/2020
6	Dr.V.Kumar	ATAL	Energy Engineering	K.L.N. College of	21/09/2020
Ū	Chinnaiyan	FDP	Linergy Engineering	Madurai	25/09/2020
7	Dr.J.Karpagam	ATAL	Energy Engineering	K.L.N. College of Engineering.	21/09/2020
	2 m m p 48 m	FDP		Madurai	25/09/2020
8	Dr.R.Uthirasamy	ATAL	Energy Engineering	K.L.N. College of	21/09/2020
		FDP		Engineering, Madurai	25/09/2020
9	Mr.G.Saravanan	ATAL	Internet of Things	Anna University,	21/09/2020
		FDP		Chennai	25/09/2020
10	Ms V I Vijavalakshmi	ATAL	Energy Engineering	K.L.N. College of Engineering	21/09/2020
10	1115. 1 .5. 1 ijuyuluK5iiiiii	FDP	Energy Engineering	Madurai	25/09/2020

11	Mr.P.Ravikumar	ATAL FDP	Energy Engineering	K.L.N. College of Engineering, Madurai	21/09/2020 - 25/09/2020
12	Ms.P.Praveena	ATAL FDP	Robotics	PSG College of Technology, Coimbatore	21/09/2020 - 25/09/2020
13	Dr.P.Pandiyan	ATAL FDP	Energy Engineering	National Institute of Technology, Silchar	26/09/2020 - 30/09/2020

### **Students Participation in Online Courses/ Workshop/Seminar/Quiz/Paper Presentation**

S.No	Student Name	Year	Event Name	Venue/Conducted by	Duration of the Event
1	Karthikeyan C.	III	Seminar	IGEN	03/09/2020
2	Nandhini S.	III	Seminar	IGEN	03/09/2020
3	Navaneethan N.	III	Seminar	IGEN	03/09/2020
4	Emily Aangel D.	III	Webinar	IGEN	05/09/2020
5	Balaji P.A.	III	Coding Challenge	Shah and Anchor Kutchhi Engineering College, Mumbai	10/09/2020
6	Bhavana S.	IV	Webinar	AMRITA University, Coimbatore	17/09/2020
7	Balaji S.	IV	Webinar	AMRITA University, Coimbatore	17/09/2020
8	Deepak A.K.	IV	Webinar	AMRITA University, Coimbatore	17/09/2020
9	Brindha P.	IV	Webinar	AMRITA University, Coimbatore	17/09/2020
10	Boobalan P.	III	Coding Challenge	Shah and Anchor Kutchhi Engineering College, Mumbai	25/09/2020
11	Karthikeyan C.	III	Coding Challenge	Shah and Anchor Kutchhi Engineering College, Mumbai	25/09/2020
12	Kiruthic P.	III	Coding Challenge	Shah and Anchor Kutchhi Engineering College, Mumbai	25/09/2020
13	Bharathwaj N.	III	Quiz	Un academy	25/09/2020

14	Rubavasan N.	III	Quiz	My NEP	27/09/2020
15	Vinothini G.	III	Quiz	My NEP	27/09/2020
16	Sharanya K.K.	III	Quiz	My NEP	27/09/2020
17	Shapthika Edward	III	Quiz	My NEP	27/09/2020
18	Suvatha	III	Quiz	My NEP	27/09/2020
19	Vignesh K.	III	Quiz	My NEP	27/09/2020
20	Rahul Adarsh F.	III	Quiz	My NEP	27/09/2020
21	Venkatachalam K.	III	Quiz	My NEP	27/09/2020
22	Aravind B.	III	Quiz	My NEP	27/09/2020
23	Ashok S.	III	Quiz	My NEP	27/09/2020
24	Bala Surya T.	III	Quiz	My NEP	27/09/2020
25	Bhuvaneshwaran A.	III	Quiz	My NEP	27/09/2020
26	Boopathi G.	III	Quiz	My NEP	27/09/2020
27	Deepak B.	III	Quiz	My NEP	27/09/2020
28	Emily Aangel D.	III	Quiz	My NEP	27/09/2020
29	Hariharan U.	III	Quiz	My NEP	27/09/2020
30	Janani T.	III	Quiz	My NEP	27/09/2020
31	Kiruthic P.	III	Quiz	My NEP	27/09/2020
32	Mugilan S.	III	Quiz	My NEP	27/09/2020
33	Gnanadesikan S.	III	Quiz	My NEP	27/09/2020
34	Kavin Kumar A.	III	Quiz	My NEP	27/09/2020
35	Reshma S.J.	III	Quiz	My NEP	27/09/2020
36	Ketheeswaran K.	II	Quiz	My NEP	28/09/2020

37	Radhika E.	II	Quiz	My NEP	28/09/2020
38	Shanmugavel A.	II	Quiz	My NEP	28/09/2020
39	Suthamathi R.	II	Quiz	My NEP	28/09/2020
40	Karthikeyan C.	III	Quiz	Un acadamy	28/09/2020

# **Placement Details**

S.No.	Student Name	Organization
1	AMEER KHAN S.	TCS, CTS, Mirrar Technologies
2	BENY R.	VVDN Technologies
3	HARINI R.	VVDN Technologies
4	HARINI S.	VVDN Technologies
5	SASIDHARAN S.	VVDN Technologies



### **Product Development**

Product Title	MOBILE APP BASED STREET LIGHT CONTROLLER	
Name of the	Dr. R. Uthirasamy, Associate Professor/EEE	
Supervisor	Prof. G. Saravanan, Assistant Professor (Sl.G)/EEE	
Name of the	Ms. K.Darsini – III Year EEE-A	
Batch	Ms. D.Emily Aangel – III Year EEE-A	
Members	Ms. S.J. Reshma– III Year EEE-A	
	In the current scenario conservation and utilization of Electrical power is	
	more important than power generation and transmission. Hence, an automated	
	system is required for electrical appliances. Mobile phone is a revolutionary	
	invention of the century. It was primarily designed for making and receiving calls	
	and text messages, but it has become the whole world after the smart phone comes	
Product	into the picture. So it makes intelligent to control electrical appliances. In the	
Description	proposed project, an automated system is developed to control the street light using	
	Arduino controller through Bluetooth module. The motivation of the proposed	
	project is to develop a street light system using mobile phones to utilize and	
	conserve electrical power effectively. Arduino is an open source electronics	
	prototyping platform based on flexible, easy-to-use hardware and software. Arduino	
	Uno is based on ATmega328 microcontroller.	
Photograph of the Product		





# ART GALLERY



S.Gokul / III-EEE-A





# ART GALLERY



G.Vinothini / III-EEE-B

