



NEWSLETTER

Electrowaves - 29

Technical Magazine *April - June 2021*

Department of
**Electrical and Electronics
Engineering**

Editorial Message

The Department of Electrical and Electronics has recorded consistent improvement in its academic, research and placement performance. Department offers a range of innovatively designed programs whose curricula are constantly updated to meet the changing requirements of the industry and also meet the needs of major stakeholders.

When publishing these newsletter's only thing we had in mind was that the Newsletter should reflect the outlook of the department in all aspects. Hereby, we the editors take the responsibility of ensuring the continuity of the issues in the years to come with improvements and richness every time. We are pretty sure that you will get lot of useful information reading it. However, our work does not end here. We consider that our endeavors will be successful only when, after reading these articles you get motivated to contribute more such articles in future issues.

"The world is yours, Aspire big"

Dr. K MALARVIZHI
Head of the Department

Vision

To be a Centre of Excellence in Globalizing Education and Research in the field of Electrical and Electronics Engineering.

Mission

The mission of the department is to

- Empower the students with state-of-art knowledge to excel as eminent electrical engineers with multi-disciplinary skills.
- Emphasize social values and leadership qualities to meet the industrial needs, societal problems and global challenges.
- Enable the technocrats to accomplish impactful research and innovations.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

Our graduates will be able to

- Pursue a diverse range of careers in engineering, consultancy, and entrepreneurship.
- Contribute to continuous professional development through higher studies and life-long learning.
- Demonstrate their technical proficiency with ethical values and social responsibility.
- Innovate and provide solutions for ever-changing global environments with familiarity in computational platforms in electrical engineering.

Programme Outcomes (POs)

- **ENGINEERING KNOWLEDGE**

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

- **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

Programme Outcomes (POs)

- **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.

- **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.

- **MODERN TOOL USAGE**

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

- **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

Programme Outcomes (POs)

- **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.

- **ETHICS**

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

- **INDIVIDUAL AND TEAM WORK**

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

- **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.

- **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.

- **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)

Apply the knowledge acquired in Electrical and Electronics Engineering to technological advancements.

Identify suitable solutions for design and control of electrical and electronic systems

Faculty Research

S. No	Name of the Faculty	Name of the Dept	Designation	No. of Citations	h-Index
1	Dr.K.Malarvizhi	EEE	Professor	35	3
2	Dr. P.Thirumoorthi	EEE	Professor	55	4
3	Dr.K.Paramasivam	EEE	Professor	56	5
4	Dr. K. Premalatha	EEE	Asso. Prof.	5	2
5	Dr. V. Kandasamy	EEE	Asso. Prof	7	2
6	Dr.C.Udhayashankar	EEE	Asso. Prof.	12	2
7	Dr. R. Kavitha	EEE	Asso. Prof.	20	3
8	Dr. M. Mohanraj	EEE	Asso.Prof	4	1
9	Dr. B. Karunamoorthy	EEE	Asso. Prof.	4	1
10	Dr. M. Nirmala	EEE	Asst. Prof. III	4	1
11	Dr. N. Prakash	EEE	Asst. Prof.III	Nil	Nil
12	Mr.N.Vinoth Kumar	EEE	Asst. Prof III	48	3
13	Mrs. T. Shanthi	EEE	Asst. Prof.(SRG)	18	2
14	Mr. J. Ram Prabu	EEE	Asst. Prof.II	Nil	Nil
15	Mr. S. Kaliappan	EEE	Asst. Prof.II	5	1
16	Mr. R. Suresh Kumar	EEE	Asst. Prof.II	5	1
17	Mrs. R. S. Sandhya Devi	EEE	Asst. Prof.II	10	1
18	Mrs. P. Maithili	EEE	Asst. Prof. I	4	1
19	Mrs.G.Anushree	EEE	Asst. Prof. I	Nil	Nil
20	Mrs.D.Sharmitha	EEE	Asst. Prof. I	10	2
21	Mr.V R.Balaji	EEE	Asst. Prof. I	Nil	Nil
22	Mr T.Viswanathan	EEE	Asst. Prof. I	10	1
23	Mr.N.Mohana Sundaram	EEE	Asst. Prof. I	5	1
24	Mr T.Dineshkumar	EEE	Asst. Prof. I	2	1
25	Mr.M.Mathan Kumar	EEE	Asst. Prof. I	44	5
26	Mr.S.Arun Kumar	EEE	Asst. Prof. I	2	1
27	Mr.C.Sasi Kumar	EEE	Asst. Prof. I	1	1
28	Mr.S.Surya Prakash	EEE	Asst. Prof. I	1	1

Lecture Delivered

Mr. M Mathankumar, Assistant Professor delivered a lecture on "IoT Use Cases in Agriculture" in AICTE Sponsored Six Days Short Term Training Program on "Smart Sustainable Farming (SSF) Based on IoT Perspective" at Sethu Institute of Technology on 10th May 2021.

Dr. S.Kaliappan, Assistant Professor delivered a lecture on "Application of IoT" at Sri Ranganathar Institute of Polytechnic College, Coimbatore on 11th May 2021.

Paper published

Dr.K.Premalatha, Associate Professor published paper title on "Modelling and Analysis of Positive Output LUO Converter in Voltage Control Mode" at International Journal Electrica 2021, Vol. no 21, Issue 2, Pg. No. 259-271.

Book Chapter Publication

Dr.B.Karunamoorthy, Associate Professor authored the book chapter titled " ZSI Based Motor Drive System" book title "Emerging Trends in Engineering and Technology " at Integrated Publications New Delhi, ISBN - 978-93-90471-48-5.

Faculty Participation

S.No	Name of the Faculty	Event Type	Level of the Event	Title of the Event	No. of Days Program Attended
1	Mr.M. Mathankumar	FDP	National	Internet of Things	5
2	Mr.N. Mohana Sundaram	STTP	National	Modern Power System Optimization Techniques, Tools, and Applications	5
3	Mr.S.Suryaprakash	Workshop	National	Incorporating Universal Human Values (UHV) in Education by AICTE	5
4	Mr.S.Suryaprakash	Workshop	National	ATAL FDP on Sensorless IOT at IIIT, Kottayam	5

5	Dr.B.Karunamoorthy	Seminar	National	Trends in E-VECHILE	1
6	Dr.S.kaliappan	Webinar	International	Protection and control of transformer and associated panels	1
7	Dr.M.mohanraj	Workshop	National	AICTE-Student Learning Assessment Project	5

Student Internships

S.No	Batch	Roll number	Name of the student	Name and address of the industry
1	2017 - 2021	17BEE010	R K R KARTHIK BALAJI	Zoho Corporation, Chennai.
2	2018-2022	18BEE105	S. Gunasekaran	Volvo Eicher commercial vehicles Indore
3	2017-2021	17BEE017	A Snehaa	Robert Bosch, Coimbatore
4	2017 - 2021	17BEE030	G Nishanth	Tata Consultancy Services
5	2017 - 2021	17BEE056	A. Sandeep	Aximsoft, Coimbatore
6	2017 - 2021	17BEE224	B.Kaviyarasi B	Robert Bosch, Coimbatore
7	2017 - 2021	17BEE047	U.Pravin	CTS, Coimbatore
8	2017 - 2021	17BEE014	V. Miralini V	Energixx LLC Bangalore.

Student Publication

Preethi, I., Suryaprakash, S., & Mathankumar, M, presented paper Title “A State-of-Art Approach on Fault Detection in Three Phase Induction Motor using AI Techniques”, 2021 5th International Conference on Computing Methodologies and Communication (ICCMC), pg. 567-573.

Dhiksha Mohan, Vignesh R, Sabarish, published paper Title “Wearable device for air quality monitoring with disease prediction system”, at International Journal of Creative Research Thoughts (IJCRT), Vol. no 9, Issue 5, Pg.No - 3734-3742.

Student Participation

S.No.	Roll number	Name of the student	Program Type	Name of Event	Organizing Agency / Institute Name	Level of Event	No. of Days
1	19BEE095	Souhbarnika V	Online training/ Webinar	IEEE Xplore: Search Strategies to Optimize Your Research	Kumaraguru College of Technology, Coimbatore	National	1
2	17BEE014	Miralini V	Online	VLSI training	Tessolve	State	10
3	19BEE095	Souhbarnika V	Hackathon	Glossas 2021	Bannari Amman Institute of Technology (BIT), Sathyamangalam	State	11

Guest Lecture on "Overview of Switchgear"

23-06-2021

The gathering consist of of faculty members and undergraduate students of Electrical and Electronics Engineering programme was welcomed by Dr. M..Mohanraj Associate Professor/ EEE. The chief guest of the day Mr. V. V.Subramaniam, Manager, L&T Switchgear Training centre was introduced by Mr. R. Suresh Kumar, AP / EEE. The chief guest had vast experience in Switchgear production, Training, and distribution. The highlights of the his lecture includes the following:

- Should study the business potential of the selected area through work or field experience.
- Should have convincing statements related to the product of interest.
- Should acquire strong knowledge and skill in the selected domain of interest while study.

Program Organized

Anna University Sponsored FDTP on Power Electronics

Department of EEE Organized Anna University Sponsored FDTP on Power Electronics with 60 Participants from 21-06-2021 to 26-06-2021. Organized by Dr. K Premalatha, Associate Professor, Dr R Kavitha, Associate Professor and Ms G Anushree, Assistant Professor. Guest Speakers are listed below:

1. Dr.G. Saravanallango, Associate Professor, EEE Department, National Institute of Technology, Trichy.
2. Dr. Kumar Chinnaiyan V, Professor, Electrical and Electronics Engineering, KPR Institute of Engineering and Technology, Coimbatore.
3. Dr. P. Maruthupandi, Assistant Professor, Electrical and Electronics Engineering, GCT, Coimbatore.
4. Dr.B.Venkatesaperumal, Associate Professor, Electrical and Electronics Engineering, NIT Surathkkal.
5. Dr.S. Albert Alexander, Associate Professor, Electrical and Electronics Engineering, Kongu Engineering College, Perundurai.
6. Dr.E.Chandrasekar, Professor, Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore.
7. Dr.M.Sundaram, Associate Professor, Electrical and Electronics Engineering, PSG College of Technology, Coimbatore.
8. Dr.N.Rajasekar, Professor, School of Electrical Sciences, VIT, Vellore.
9. Dr. K.Ranjithkumar, Professor, Electrical and Electronics Engineering, Government College of Technology, Coimbatore.
10. Dr K Palanisamy, Associate Professor, VIT, Vellore.

DAB MEETING

Department of EEE Organized DAB meeting to enhance the department in various ways on 09-06-2021. Anna University Nominee, Subject Experts, Industry Experts, Students, Parents, Faculty Members, Alumni are involved and suggested for improvements.

1. Mr.D.Mahesh kumar, GM & Production Electrical systems and Equipment, L&T, Coimbatore.
2. Mr.J.Senthil Prakash, Managing Director, Techno Pac Automation Control, Coimbatore
3. Mr. M. Dinesh Kumar, Senior Software Engineer, Robert Bosch Engineering and Business Solution, Coimbatore
4. Mr.V.Ramakrishnan, Electrical Inspector, Coimbatore North.
5. Dr. K.Baskaran, Professor & Head /EEE, Alagappa Chettiar Government College of Engineering and Technology, Karaikudi
6. Dr.J.Kanakaraj, Professor & Head/ EEE, PSG College of Technology, Coimbatore.



BOS meeting

To upgrade the syllabus and enrich the subject department of EEE Organized BoS Meeting on 12-6-2021. Anna University Nominee, Subject Experts, Industry Experts, Students, Parents, Faculty Members, Alumni are involved and suggested for improvements.

1. Dr K.Ranjith Kumar, Associate Professor, Department of EEE, Government College of Technology, Coimbatore.
2. Dr.S.Moorthi, Associate Professor, Dept of EEE, National Institute of Technology, Tiruchirappalli
3. Dr R.Muthiah, Associate Dean, School of Computing, SASTRA University, Thanjavur.
4. Prof.Shriram Vasudevan, Technical Manager – Learning and Development / Amrita University.
5. Mr.K.Gangadharan, Senior software Architect, Robert Bosch, Coimbatore.

Online Skill Based Training to Students

AICTE Free Online Certification Course on **Learn To Design Solar Home System**

IN THIS LOCKDOWN, LEARN TO DESIGN SOLAR SYSTEM IN EASY STEPS

Don't miss this opportunity and become a Certified Energy Literate for free in 2-easy steps.

Steps to
get Free
Certificate



Watch the
Course
Videos



Take the
Quiz

Instructions:

- ❖ This course is open for all college Students/Faculties.
- ❖ Any participant above the age of 14 years can take up this course.
- ❖ There are **15 videos** in the course. Students **need to watch each and every video** to successfully complete the course.
- ❖ Students must clear the quiz to get the certificate.

Covid'19 - KARE Social Impact

SUPPORT FARMERS !!

CALLING THE HELP OF **GATED COMMUNITIES** AND **BULK CONSUMERS OF VEGETABLES.**

KARE buys bulk produce from farmers and can distribute quantities of **100kg of assorted vegetables to your communities.** Charges are only procurement costs plus transport costs.

*Let's form a **chain of positive impact!***

Contact **97879 44794**

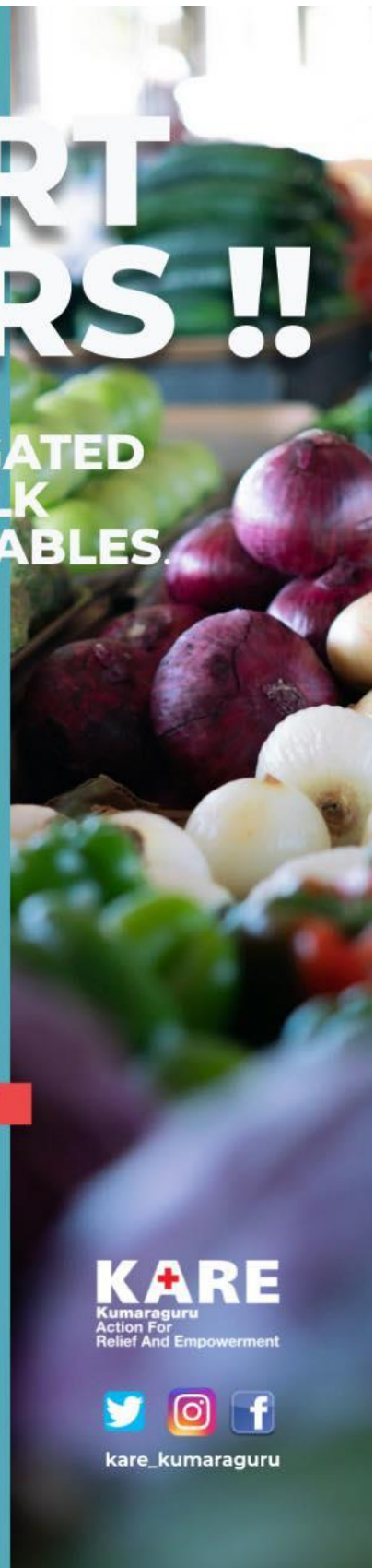
Kumaraguru Action for Relief and Empowerment (KARE), a volunteer movement supports people affected by natural disasters and other calamities, with its comprehensive relief and rehabilitation solutions.

#KARECOVID19ASSIST

KARE
Kumaraguru
Action For
Relief And Empowerment



kare_kumaraguru





DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING

PRESENTS

PROJECT LAB – HARDWARE FACILITIES & MENTORING FOR YOUR VALUABLE PROJECTS

The department of Electrical and Electronics Engineering provides hardware facilities for all kind of projects in the stream of EEE. The Students with project ideas in the stream of EEE can do their own projects using the hardware components available at project lab. They are also provided with guidance from leading Industrialist and alumni to clarify their projects doubts during development phase of his/her idea. This hardware lab can be used by UG & PG students to do their project which evokes their research skill in the field of EEE.

OBJECTIVE

To make the students to improve his/her project design and development skills for implementing their own ideas in real time.

PREREQUISITES

Basics of EEE, project idea with circuit diagram & knowledge of component specifications

ALL THE WORKING DAYS 4.30 PM TO 8 PM THROUGHOUT THE YEAR

FOR MORE DETAILS CONTACT

Mr. S.Surya Prakash 98940 65306

Mr.C.Sasikumar 97860 37980





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