Department of Electrical and Electronics Engineering KPR Institute of Engineering and Technology



NEWSLETTER





ELECTROBLITZ

VOLUME 7, ISSUE 6 June 2021

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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.Mohana Sundaram	Professor
4.	Dr.R.Uthirasamy	Professor
5.	Dr.R.Kiruba Shankar	Professor
6.	Dr.V.S.Chandrika	Associate Professor
7.	Dr.P.Pandiyan	Associate Professor
8.	Dr.A.Karthick	Associate Professor
9.	Mr.S.Vivekanandan	Assistant Professor (Sl.G)
10.	Mr.G.Saravanan	Assistant Professor (Sl.G)
11.	Mr.R.Sampathkumar	Assistant Professor (Sl.G)
12.	Dr.C.Pazhanimuthu	Assistant Professor (Sl.G)
13.	Dr.I.Baranilingesan	Assistant Professor (Sl.G)
14.	Dr.S.Ravindran	Assistant Professor (Sl.G)
15.	Dr.A.Matheswaran	Assistant Professor (Sl.G)
16.	Mr.D.Sathish Kumar	Assistant Professor (Sr.G)
17.	Ms.B.Lalitha	Assistant Professor (Sr.G)



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18.	Ms.R.Revathi	Assistant Professor (Sr.G)
19.	Mr.A.Mohamed Ibrahim	Assistant Professor (Sr.G)
20.	Mr.P.Ravikumar	Assistant Professor (Sr.G)
21.	Mr.V.Kamalkumar	Assistant Professor(Sr.G)
22.	Mr.C.J.Vignesh	Assistant Professor(Sr.G)
23.	Mr.K.Balamurugan	Assistant Professor
24.	Ms.P.Praveena	Assistant Professor
25.	Mr.C.Dinesh	Assistant Professor
26.	Mr.M.Mohana Sundaram	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 Role of Big Data and IoT in Power Systems and Power Electronic Systems

The department of Electrical and Electronics Engineering organized a webinar on "Role of Big Data and IoT in Power Systems and Power Electronic Systems" on 01/06/2021 for students and faculty community. A heart-warming welcome was delivered by Dr. V.S.Chandrika, AsP. Er. D.Vijayan, M.E., Director, Breadth-First Technologies, Chennai, has delivered valuable presentation on role and importance of IoT in Power Systems and Power Electronic Systems. He had presented the discussions on

- Need of IoT in PS & PES
- Smart Grid Scenario and Challenges related to Power Systems
- Structure and Potential of IoT
- IoT in Different Power System Components
- Criticisms and Controversies of IoT

The webinar provided some of the interesting facts in IoT and big data role in power system design to students and faculty members. 100 participants including external participants have attended the webinar and ignited themselves. The vote of thanks was delivered by Dr. C.Pazhanimuthu, AP (Sl.G.). The department of EEE thanks to the management for providing this opportunity to conduct the webinar successfully.







Webinar on myths to know about core job interview

The department of Electrical and Electronics Engineering organized a webinar on "7 myths to know about core job interview" on 05/06/2021 for students' community. A heart-warming welcome remark was delivered Mr. Ranjith Shankar, III EEE B. Er. E. Mohan Kumar, Alumnus class of 2020 presented the following deliberations

- Core company environment
- Safety measures
- How to interact with HR
- What are the questions may expect?

Students expressed their gratitude towards the resource person for knowledge which he shared. This webinar is interesting for the students. Ms. Sakthi sree, III EEE B proposed the vote of thanks.

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Webinar on Analog Integrated Circuits and its Applications

The department of Electrical and Electronics Engineering organized a webinar on "Analog Integrated Circuits and its Applications" on 08/06/2021 for students and faculty community. A heart-warming welcome was delivered by Prof. C.Dinesh, AP.

Er. Viswesh K R, Hardware Design Engineer, Qualcomm, Bangalore, has delivered valuable presentation on Analog IC design and CMOS radios. He had presented the discussions on



- Components used for analog IC design
- CMOS Radios
- CMOS Image sensor
- Simple RC circuit
- Switched RC circuit

The webinar provided some of the interesting information about the designing of analog IC design and simple RC design, Switched RC design to students and faculty members. 100 participants including external participants have attended the webinar and ignited themselves. The vote of thanks was delivered by Prof. G.Saravanan, AP (Sl.G.). The department of EEE thanks to the management for providing this opportunity to conduct the webinar successfully.



Webinar on Preparing for an Interview

The department of Electrical and Electronics Engineering organized a webinar on "Preparing for an Interview" on 12/06/2021 for students' community. A heart-warming welcome remark was delivered Mr. Varun, III EEE B. Er. S. Bharathi, Software Engineer, HCL Technologies presented the following deliberations,

- CV preparation
- Dress code
- How to interact with HR
- How to answer the questions





Students expressed their gratitude towards the resource person for knowledge which he shared. This webinar is interesting for the students. Ms.Radhika, III EEE B proposed the vote of thanks.

KPR Institute of Engineering and Technology Learn Beyond (Autonomous, NAAC "A")	
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	Interview
Er. S. Bharathi Software Engineer , HCL Technologies	12 June 2021
(Alumna Class of 2020)	Meet https://meet.google.com/ fzg-ajhh-mwu
Award - 2020	@ KPRIET 8015143858 9095062900

Faculty Development Program (FDP) on Cutting Edge Technologies in Energy Storage system for E- Mobility

The Department of Electrical and Electronics Engineering of KPR Institute of Engineering and Technology was organized an AICTE Training and Learning (ATAL) Academy Faculty Development Program (FDP) on the title "Cutting Edge Technologies in Energy Storage system for E- Mobility" from 14/06/2021 to 18/06/2021. Dr.V.Kumar Chinnaiyan, Professor and Head, Dept. of EEE and Dr.R.Uthirasamy, Professor disseminated about the session details and delivered a heart-warming welcome. The expert members from NITs and reputed institutions handled the session across the state. 14 resource persons handled the FDP sessions.







Faculty Development Training Program (FDTP) Six day FDTP on EE8391-Electromagnetic Theory

The Department of Electrical and Electronics Engineering of KPR Institute of Engineering and Technology was organized six day online FDTP on EE8391- Electromagnetic Theory, sponsored by centre for faculty development, Anna University, Chennai from 14/06/2021 to 19/06/2021. A heart-warming welcome remark was delivered by Dr.V.Kumar Chinnaiyan, Professor and Head, Dept. of EEE and Prof.G.Saravanan disseminated about the session details. FDTP covered the syllabus of EE8391-ElectromagneticTheory course (R2017-EEE-III Semester) and the session was handled by the expert members from NITs and reputed institutions across the state. 12 resource persons handled the FDTP sessions.







Quiz Series on Electric vehicles-XVII

The department of Electrical and Electronics Engineering organized a "Quiz Series on Electric Vehicles – XVII" on 19/06/2021 open to all, who are keen on emerging EV technologies. Participants from various Institutions, Universities and Industries across India and foreign nations have participated in this quiz.

The details of the Program Participants are given below:

Total Participants	:	191
Participants cleared the quiz and received Certificate	:	182
Participants from other Nations, Institutions and Universities	:	83
Participants from KPRIET	:	108







Webinar on APP Development for Beginners

The department of Electrical and Electronics Engineering organized a webinar on "APP Development for Beginners" on 20/06/2021 for students' community. A heart-warming welcome remark was delivered Mr.Rangaraji, III EEE B. Er. S. Malarvizhi, Digital Engineer, ZF wind power, Coimbatore presented the following deliberations

- App development platform
- Android usage
- Languages for app design
- Production skills
- Various tools for app development

Students expressed their gratitude towards the resource person for knowledge which he shared. This webinar is interesting for the students. Ms. Suvetha, III EEE B proposed the vote of thanks.







Faculty Members Designated as Resource Person

- Dr. V.Kumar Chinnaiyan, Professor and Head, Dept. of EEE, KPRIET acted as one of the resource persons for AICTE Training and Learning (ATAL) Academy Faculty Development Program (FDP) on the title "Cutting Edge Technologies in Energy Storage system for E- Mobility" handled a topic on "Mitigation of Power Quality Issues in Grid Connected EV systems" on 14/06/2021.
- Dr. R.Uthirasamy, Professor, Department of EEE, KPRIET acted as one of the resource persons for AICTE Training and Learning (ATAL) Academy Faculty Development Program (FDP) on the title "Cutting Edge Technologies in Energy Storage system for E- Mobility" handled a topic on "Research challenges and Opportunities in Power Converters for E Mobility" on 15/06/2021.





- Dr. J.Karpagam, Professor, Department of EEE, KPRIET acted as one of the resource persons for AICTE Training and Learning (ATAL) Academy Faculty Development Program (FDP) on the title "Cutting Edge Technologies in Energy Storage system for E- Mobility" handled a topic on "Battery Management System for EV" on 16/06/2021.
- Dr. J.Karpagam, Professor, Department of EEE, KPRIET acted as one of the resource persons for Centre for Faculty Development Anna University, Chennai sponsored Online Six Day FDTP on "EE8391-Electromagnetic Theory" on 18/06/2021.
- Prof. P.Ravikumar, Assistant Professor (Sr.G), Department of EEE, KPRIET acted as one of the resource persons for AICTE Training and Learning (ATAL) Academy Faculty Development Program (FDP) on the title "Cutting Edge Technologies in Energy Storage system for E-Mobility" handled a topic on "Installation of Charging Stations and Opportunities for New Entrepreneur" on 17/06/2021.
- Prof. G.Saravanan, Assistant Professor (Sl.G), Department of EEE, KPRIET acted as as one of the resource persons for Centre for Faculty Development Anna University, Chennai sponsored Online Six Day FDTP on "EE8391-Electromagnetic Theory" on 15/06/2021.

Patent Publications

- 1. Prof. A.Mohamed Ibrahim, AP (Sr.G) published a patent in the title of "Human Activity Recognition using Spiking Neural Network" on June 2021.
- 2. Dr. A.Matheswaran, AP (SI.G) published a patent in the title of "Specialized Stick for Security Guards" on June 2021.





List of Eminent Academicians/Scientists Visit

S.No.	Name and Designation	Organization
1	Er. D.Vijayan, M.E., Director	Breadth-First Technologies, Chennai
2	Er. Viswesh K R, Hardware Design Engineer	Qualcomm, Bangalore
3	Dr. Lalith Singh, Scientist	NPCIL,BARC Mumbai
4	Er. R.Raj Kumar, Senior Application Engineer	VI solutions, Bangalore
5	Mr. P.Ragupathy, Principal Scientist	CSIR-CECRI, Karaikudi
6	Dr. S.Kumaravel, Assistant Professor/EEE	National Institute of Technology, Calicut
7	Er. P.Prasanth Kumar Project Engineer	Haritha Techlogix, Bangalore
8	Er. S.Selvakumar, CEO	Power Projects, Chennai
9	Dr. J.Prasanth Ram, Research Assistant Professor	POSTECH, South Korea
10	Dr. K.Vijayakumar, Assistant Professor	IITDM, Kancheepuram
11	Dr. P.Elanchezhiyan, Senior Power Electronics System Engineer	Arka Energy India Pvt. Ltd, Bangalore
12	Dr. R.L.Josephine, Assistant Professor	NIT, Tiruchirappalli



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Faculty Achievement

- Dr. V. Kumar Chinnaiyan, Professor and Head, Department of EEE, KPRIET, evaluated the projects in Innovation through Design Thinking course offered by Taylor's University.
- Dr. R. Uthirasamy, Professor, Department of EEE, KPRIET, evaluated the projects in Innovation through Design Thinking course offered by Taylor's University.

Student Placement Details

S.No.	Student Name	Organization
1	GOKUL D.	BSH, Chennai
2	MURUGESWARI M.	BSH, Chennai
3	SINDHUJA V.	BSH, Chennai
4	SOWMIYA S.	BSH, Chennai











ART GALLERY



Ms.G.Vinothini / III-EEE-B









ART-GALLERY



Ms.R.Dhanusya / III-EEE-A









