Department of Electrical and Electronics EngineeringKPR Institute of Engineering and Technology



NEWSLETTER





ELECTROBLITZ

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





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.M.Soundharrajan	Lab Technician
6.	Mr.A.Nandhakumar	Office Assistant



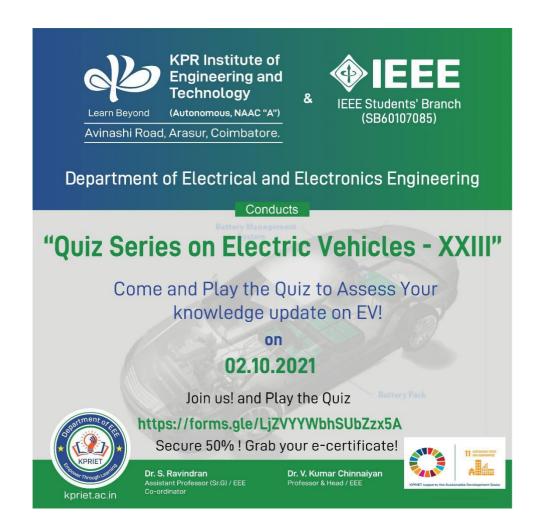
ASSOCIATION ACTIVITIES

Quiz Series on Electric vehicles-XXIII

The department of Electrical and Electronics Engineering organized a "Quiz Series on Electric Vehicles – XXIII" on 02/10/2021 open to all, who are keen on emerging EV technologies. The poster is circulated to various Institutions and in social media digitally. 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 : 653
Participants cleared the quiz and received Certificate : 609
Participants from other Nations, Institutions and Universities : 599
Participants from KPRIET : 54





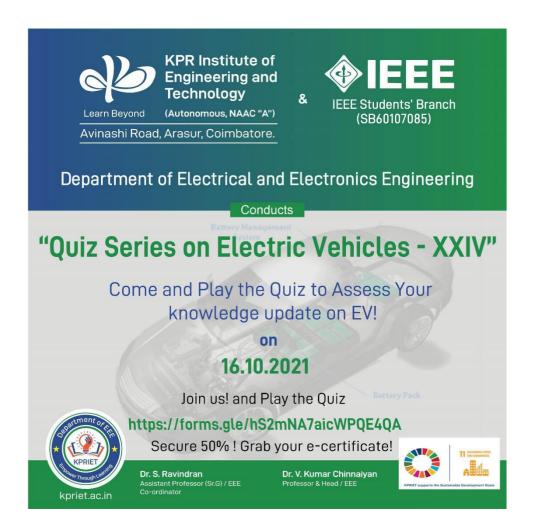


Quiz Series on Electric vehicles-XXIV

The department of Electrical and Electronics Engineering organized a "Quiz Series on Electric Vehicles – XXIV" on 16/10/2021 open to all, who are keen on emerging EV technologies. The poster is circulated to various Institutions and in social media digitally. 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 : 370
Participants cleared the quiz and received Certificate : 310
Participants from other Nations, Institutions and Universities : 351
Participants from KPRIET : 19





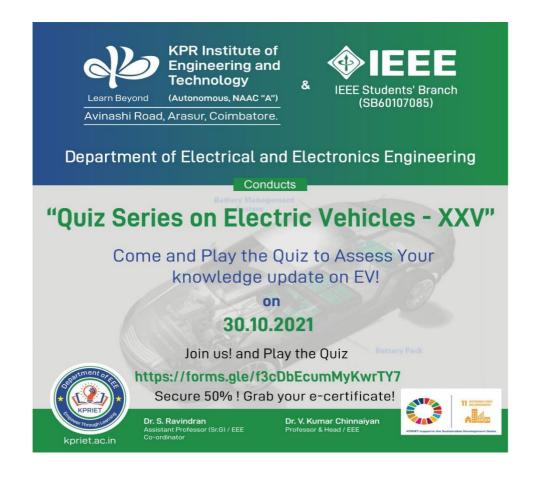
Quiz Series on Electric vehicles-XXV

The department of Electrical and Electronics Engineering organized a "Quiz Series on Electric Vehicles – XXV" on 30/10/2021 open to all, who are keen on emerging EV technologies. The poster is circulated to various Institutions and in social media digitally. Participants from various Institutions, Universities and Industries across India and foreign nations have participated in this quiz.

- This Quiz had 10 questions covering Electric Vehicle Technologies
- Each question carries 10 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 : 105
Participants cleared the quiz and received Certificate : 97
Participants from other Nations, Institutions and Universities : 81
Participants from KPRIET : 16







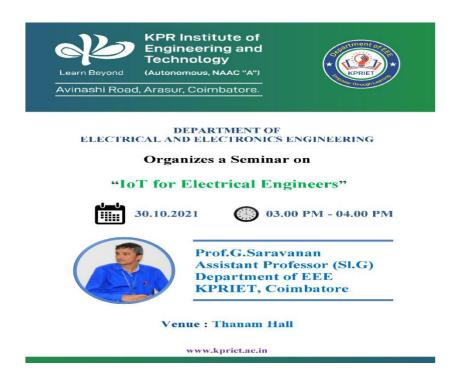
Seminar on IoT for Electrical Engineers

The Department of Electrical and Electronics Engineering organized a seminar on "IoT for Electrical Engineers" on 30/10/2021 for student's community. A heart-warming welcome was delivered by Ms. S.Harshini of II EEE 'A'. Prof. G. Saravanan, Assistant Professor (SL.G.), Department of Electrical and Electronics Engineering, KPR Institute of Engineering and Technology has delivered valuable presentation on IoT.

He had provided the deliberations on,

- IoT Growth rate
- Future of IoT
- IoT Components
- IoT Data Generation

Students expressed their gratitude towards the resource person for knowledge which he shared. The seminar provided some of the interesting facts in IoT and its applications to the students and faculty members. 110 participants have attended the seminar and ignited themselves.



Faculty Member Publication

Dr. Karthick A, "Finite Element Analysis of Temperature Distribution and Stress Behavior of Squeeze Pressure Composites", Advances in Materials Science and Engineering, Hindawi, October 2021.



Faculty Participation in FDP/Seminar/Workshop/Orientation Program

S.No	Faculty Name	Type of the	Event Name	Venue	Duration of
		Event			the Event
1	Dr.V.Kumar Chinnaiyan	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
2	Dr.J.Karpagam	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
3	Dr.R.Uthirasamy	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
4	Dr.V.S.Chandrika	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
5	Dr.P.Pandiyan	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
6	Dr.A.Karthick	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
7	Mr.S.Vivekanandan	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
8	Mr.G.Saravanan	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
9	Mr.R.Sampathkumar	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
10	Dr.C.Pazhanimuthu	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
11	Dr.I.Baranilingesan	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
12	Dr.S.Ravindran	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
13	Dr.A.Matheswaran	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
14	Dr.V.Parimala	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021





15	Mr.D.Sathish Kumar	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
16	Ms.B.Lalitha	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
17	Ms.R.Revathi	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
18	Mr.A.Mohamed Ibrahim	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
19	Mr.P.Ravikumar	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
20	Mr.V.Kamalkumar	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
21	Mr.C.J.Vignesh	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
22	Mr.K.Balamurugan	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
23	Ms.P.Praveena	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
24	Mr.C.Dinesh	Innovative Product Development	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
25	Mr.D.Sathish Kumar	FDP	Application of Data Science & AI	Bahra University, Punjab	11/10/2021- 16/10/2021
26	Mr.C.J.Vignesh	Webinar	Internet of Things Master Class	Pantech E-Learning	19/09/2021- 20/10/2021
27	Dr.C.Pazhanimuthu	Webinar	An Introduction to Mathematical Modeling using Octave Programming	CMR Institute of Technology, Bangalore	21/10/2021
28	Mr.S.Vivekanandan	Webinar	An Introduction to Mathematical Modeling using Octave Programming	CMR Institute of Technology, Bangalore	21/10/2021
29	Mr.K.Balamurugan	Webinar	An Introduction to Mathematical Modeling using Octave Programming	CMR Institute of Technology, Bangalore	21/10/2021





Students Participation in Hands on Session/ Workshop/Seminar/Quiz/Paper Presentation

S. No	Student Name	Year	Event	Organizing Institute	Date
1	Dhivyaa Lakshmi S. M.	II-A	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
2	Jones Barnabas P.	II-A	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
3	Hari Hara Sudhan M.	II-A	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
4	Maha Vishnu G.	II-A	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
5	Arun S.	II-A	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
6	Dony Robin R.	II-A	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
7	Gowtham S.	II-A	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
8	Guna S.	II-A	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
9	Muthukumar K.	II-B	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
10	Praveena K.	II-B	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
11	Santhosh Raj J.	II-B	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
12	Suwetha S.	II-B	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
13	Sethumadhavan A.	II-B	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
14	Santhosh S.	II-B	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
15	Rajesh Kumar M.	II-B	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
16	Saran J.	II-B	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021
17	Pavithra K.S.	II-B	Innovsense 2021	KPR Institute of Engineering and Technology, Coimbatore	09/10/2021





18	Sethumadhavan A.	II-B	Quiz	KPR Institute of Engineering and Technology, Coimbatore	24/10/2021 - 30/10/2021
19	Swetha V.	II-B	Quiz	KPR Institute of Engineering and Technology, Coimbatore	24/10/2021 - 30/10/2021

Student Placement Details

S.No.	Student Name	Organization
1	VINAYAK R.	CSS Corp, Coimbatore
2	ARAVIND B.	Code Value, Chennai
3	SOWMIYA S.	Aastrin Aviation, Chennai
4	SUKEERTHAN M.	Aastrin Aviation, Chennai
5	RESHMA S.J.	Aastrin Aviation, Chennai
6	KEERTHANA R.	Aastrin Aviation, Chennai
7	PRAVEEN BALAJI G.	Aastrin Aviation, Chennai
8	MYVIZHI S.	EPAM Systems, Bangalore
9	RANJITH KUMAR S.	TATA Consultancy Services, Chennai
10	SHRI HARI A.	TATA Consultancy Services, Chennai
11	RESHMA S.J.	TATA Consultancy Services, Chennai
12	PRANAV K.P.	TATA Consultancy Services, Chennai
13	VINAYAK R.	TATA Consultancy Services, Chennai
14	SUSHMITHA S.P.	TATA Consultancy Services, Chennai
15	SAKTHI GANESH D.	TATA Consultancy Services, Chennai
16	PREETHI S.	TATA Consultancy Services, Chennai
17	PREETHI S.	Xebia IT Architects India Private Limited, Bangalore





Product Development

Product Title	Design and Development of Drone for Medical Missions					
	Dr. R. Uthirasamy/EEE					
Name of the	Dr.J.Karpagam/EEE					
Supervisor	Prof.P.Ravikumar/EEE					
	OBJECTIVES					
	To produce faster cheaper and more accurate drone which helps in					
	 minimization of human labor 					
	❖ To improvise and modernize the existing delivery system with more					
	 compactable supply chain 					
	 Ruling out the time wastage to deliver the equipment in critical times 					
	METHODOLOGY					
	 Transmitter section and Quad copter section are part of the operation 					
Product	 Transmitter section transmits 2.45 GHz frequency 					
D	Receiver in the Quad copter section receives and send to microcontroller					
Description	 Microcontroller is powered by li-po battery 					
	The output is exerted in the motor driver and motor					
	❖ To monitor the performance of the PV system, prototype model is developed.					
	The Arduino controller is used with several voltage and current sensor					
	The Wi-Fi module is used to import and export the data to the cloud.					
	RESULTS AND DISCUSSION					
	❖ The output of the process is tested and executed successfully					
	 More effective in the delivery system 					
	 Excess money wastage in the delivery chain is reduced 					





Photograph of the Product



Project Application

- Medical requirements (drugs on immediate usage, blood, etc) delivery can be done effectively and easily.
- Transportation of organ for organ transplantation can take a new route
- Delivery system at tier 3 cities(with bad connectivity through road and railways) can be made more effective



Student's Corner



ART GALLERY



N.Gokul Sri/ II EEE -A





Student's Corner



ART GALLERY



N.Gokul Sri/ II EEE -A







Funds Received ATAL AICTE ₹ 15.5 L ₹ 1.86 L AICTE - SPICES TNSCST ₹1L ₹80 k **NSTEDB** ₹ 1.3 L ₹60 k

Internships



Faculty Details



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