

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



NEWSLETTER



ELECTROBLITZ

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September 2022

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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.V.S.Chandrika	Associate Professor
5.	Dr.P.Pandiyan	Associate Professor
6.	Dr.A.Karthick	Associate Professor
7.	Mr.S.Vivekanandan	Assistant Professor (Sl.G)
8.	Mr.G.Saravanan	Assistant Professor (Sl.G)
9.	Dr.R.Sampathkumar	Assistant Professor (Sl.G)
10.	Dr.C.Pazhanimuthu	Assistant Professor (Sl.G)
11.	Dr.D.Sathish Kumar	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.	Dr.A.Rakesh Kumar	Assistant Professor (Sr.G)
17.	Dr.N.Prakash	Assistant Professor (Sr.G)
18.	Dr.Rangu Seshu Kumar	Assistant Professor (Sr.G)

19.	Ms.B.Lalitha	Assistant Professor (Sr.G)
20.	Ms.R.Revathi	Assistant Professor (Sr.G)
21.	Mr.A.Mohamed Ibrahim	Assistant Professor (Sr.G)
22.	Mr.P.Ravikumar	Assistant Professor (Sr.G)
23.	Mr.V.Kamalkumar	Assistant Professor (Sr.G)
24.	Mr.C.J.Vignesh	Assistant Professor (Sr.G)
25.	Mr.C.Dinesh	Assistant Professor (Sr.G)
26.	Mr.K.Balamurugan	Assistant Professor
27.	Mr.M.Mohana Sundaram	Assistant Professor
28.	Mr.G.Xavier Richards	Assistant Professor

SUPPORTING STAFF

S.NO	NAME OF THE STAFF	DESIGNATION
1.	Mr.M.Vinoth Kumar	Technical Officer
2.	Mr.R.Vinoth Kumar	Technical Officer
3.	Mr.C.Gobalakrishnan	Lab Technician
4.	Mr.M.Muthukumar	Lab Instructor
5.	Mr.M.Karuppusamy	Lab Technician
6.	Ms.R.Suvalakshmi	Lab Technician
7.	Ms.P.Parameshwari	Office Assistant

ASSOCIATION ACTIVITIES

Great Guide Fest – Teachers Day Celebration

The Department of Electrical and Electronics Engineering organized Great Guide Fest (Teachers' Day Event) on 05/09/2022. Mr. Vikas / III EEE welcomed the gathering with a hearty welcome speech. Dr. V. Kumar Chinnaiyan, Head of the department delivered the presidential address. The association secretary said the teachers' Day wishes to all the teachers. The students wrote the essay about the teacher and orated. Cultural activities were conducted followed by the essay oral presentation. The guests on the dais distributed the prize to the winners of all event. The function was concluded with vote of thanks which was delivered by Ms. R. Ms. Nagapadmawathi / II EEE.



Workshop on Advanced Henna Design

The department of EEE organized a workshop in the title of “Advanced Henna Designing” on 10/09/2022. A heart-warming welcome was delivered by Ms.E.Radhika, IV-EEE and Dr.V.S.Chandrika, AsP /EEE addressed the gathering and shared the importance of Mehndi designing in Indian festivities. Ms.G.Vinothini, Youngest Mehndi Artist has been invited as a resource person, delivered the importance and various design of Mendhi. She has shared his personal experience about the various Mehndi design and gave a practical design exposure to the participants. The session was an eye opening for all the participants. Ms.H.P.Chitrika, II-EEE, delivered the vote of thanks.

Department of Electrical and Electronics Engineering

Organizes a
Professional Mehndi Workshop on
Advanced Henna Designing

RESOURCE PERSON



Ms.G.Vinothini, B.E.
Youngest Mehndi Artist
International Book of Records
Rashtriya Nirman Ratna Award
Bright Artist Award by Parliament, UK
All India Women Achievers Award

 **10.09.2022**
02.00 - 04.00 PM

 **Thanam Hall**

Registration: Registration Fee: ₹ 200/-
(Mehndi cone materials will be provided)



Coordinators
Ms.E.Radhika, IV-EEE
6383170355
Ms.H.P.Chitrika, II-EEE
9442444406

Certificate will be provided to all participants

SUSTAINABLE DEVELOPMENT GOALS



 **kpriet.ac.in**
/KPRIETonline



Uthupalayam, Tamil Nadu, India
34GV+G8V, Uthupalayam, Tamil Nadu 641048, India
Lat 11.076419°
Long 77.143332°
10/09/22 02:34 PM

Fluid Hackathon

The EKKI-KPRIET International Water Technology Centre (EIWTC), KPR Institute of Engineering and Technology, Coimbatore organized the “Fluid Hackathon” event in association with department of Electrical and Electronics Engineering on 23/09/2022 open to students. The poster is circulated to various departments. Fluid Hackathon organized with five problem statement.

- Performance and comparison of rewinded motor for industrial applications
- AI based irrigation system – farmers’ boon
- AI based water management system
- App based remote motor control and monitoring system
- Modeling of Avinashi – Athikadavu scheme

Mr.C.J.Vignesh Assistant Professor (Sr.G), Department of EEE, KPR Institute of Engineering and Technology welcomed the gathering and the Head of the Department, Dr. V. Kumar Chinnaiyan, Department of EEE, KPR Institute of Engineering and Technology, felicitated the function, Nearly 44 students from various institutions participated in the Hackathon Event. The organizer of the program Prof. C.J. Vignesh, Assistant Professor(Sr.G), Prof. B.Lalitha, Assistant Professor (Sr.G) and Dr.S.Ravindran, Assistant Professor(Sr.G), Department of Electrical & Electronics Engineering made all the necessary arrangements for the smooth conduct of the program. The program was concluded with the feedback session and certificate distribution to the participants. Dr.S.Ravindran delivered the vote of thanks.





KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")



The EKKI - KPRIET International Water Technology Centre

Proudly Organizes Fluid Hackathon

Problem Statement:

- Performance comparison of rewinded motor for industrial applications
- AI based irrigation system - farmers' boon
- AI based water management system
- App-based remote motor control and monitoring system
- Modeling of Avinashi - Athikadavu Scheme

Rules:

- Full-fledged continuous 7 hour hackathon
- The working model needs to be developed only at time of the event
- Necessary components and materials for model development shall be brought by the team

Maximum members per team is 4
All participating teams get the certificate and winning teams will get exciting prizes

Registration Fee: Rs 500/- (Including Refreshments and Lunch)

Registration Link
<https://forms.gle/GUWGbQ3cAwpZ5qaq6>





EKKI - KPRIET
International Water Technology Centre

23 03.09.2022
9.00 AM to 4.00 PM

Organizer
Prof. C.J. Vignesh, AP (Sr.G)/EEE
Prof. B. Lalitha, AP (Sr.G)/EEE
Dr. S. Ravindran, AP (SI.G)/EEE

Scan to Register





Alumni Series II

The Department of EEE organized an Alumni Series II on 24/09/2022. A heart-warming welcome was delivered by Dr.D.Sathishkumar, AP (Sl.G) / EEE, Chief Guest was introduced by Ms. Chithrika (Office Bearer) and Er. Pragathe Murugan addressed the gathering and gave glimpse about Demystifying Potential Career Challenges and Opportunities. She was enthusiastically shared his experience and discussed about the why do we need a career, interview process, working culture of corporate. She explained about choices of job like information technology, core industry, freelancing and entrepreneurship. Prof. B.Lalitha, AP (Sr.G) / EEE delivered the vote of thanks.



The poster features the KPR Institute of Engineering and Technology logo at the top left, with the motto 'Learn Beyond' and the address 'Avinashi Road, Arasur, Coimbatore.' To the right are logos for the Department of EEE, KPRIET, and the Office of Alumni Relations. A central banner reads 'Alumni Series-II' and 'Demystifying Potential Career Challenges and Opportunities'. Below this is a portrait of Er. Pragathe Murugan, an alumna from the 2019 batch, who is an independent UI/UX designer and proprietor of Indeed Nature Enterprises. The poster also lists coordinators Prof. B. Lalitha and Dr. D. Sathish Kumar, the date 24.09.2022, and the time 03:00 - 04:00 PM. A Google Meet link is provided: meet.google.com/rgn-kwyk-mzk. At the bottom, there are logos for Sustainable Development Goals, a 'Great Place To Work' certification, and social media links for Facebook, Instagram, Twitter, YouTube, and Google+.

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC 'A')
Avinashi Road, Arasur, Coimbatore.

Department of EEE
KPRIET
Office of Alumni Relations

Alumni Series-II
Demystifying Potential Career Challenges and Opportunities

Er. Pragathe Murugan
Alumna - 2019 Batch
Independent UI/UX Designer
Proprietor, Indeed Nature Enterprises

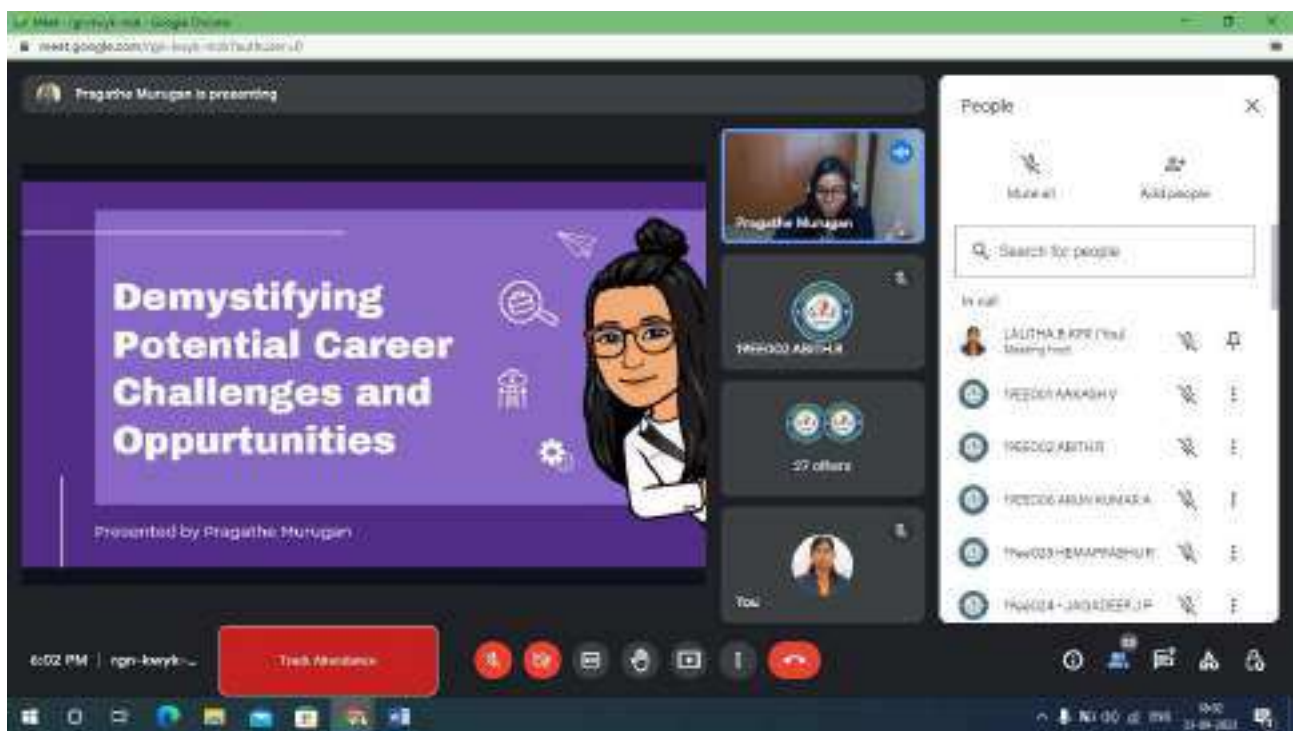
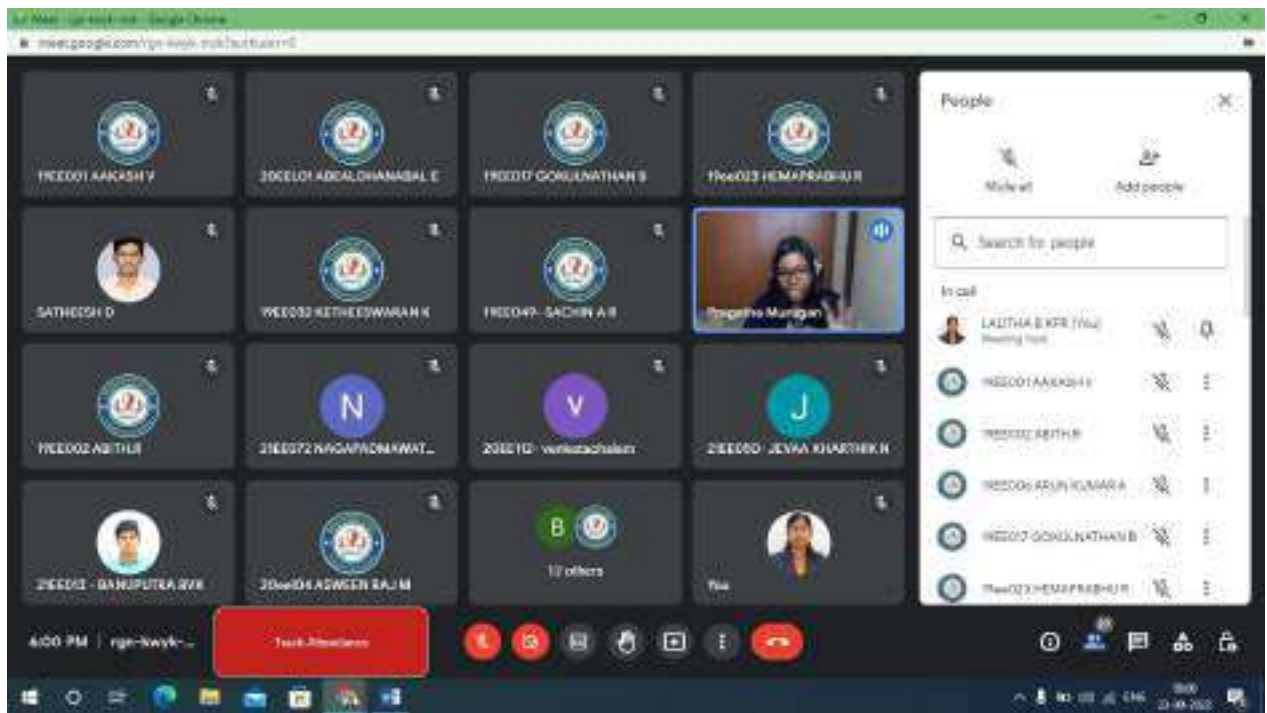
Coordinators
Prof. B. Lalitha, AP (Sr.G)/EEE
Dr. D. Sathish Kumar, AP (Sl.G)/EEE

24.09.2022
03:00 - 04:00 PM

meet.google.com/rgn-kwyk-mzk

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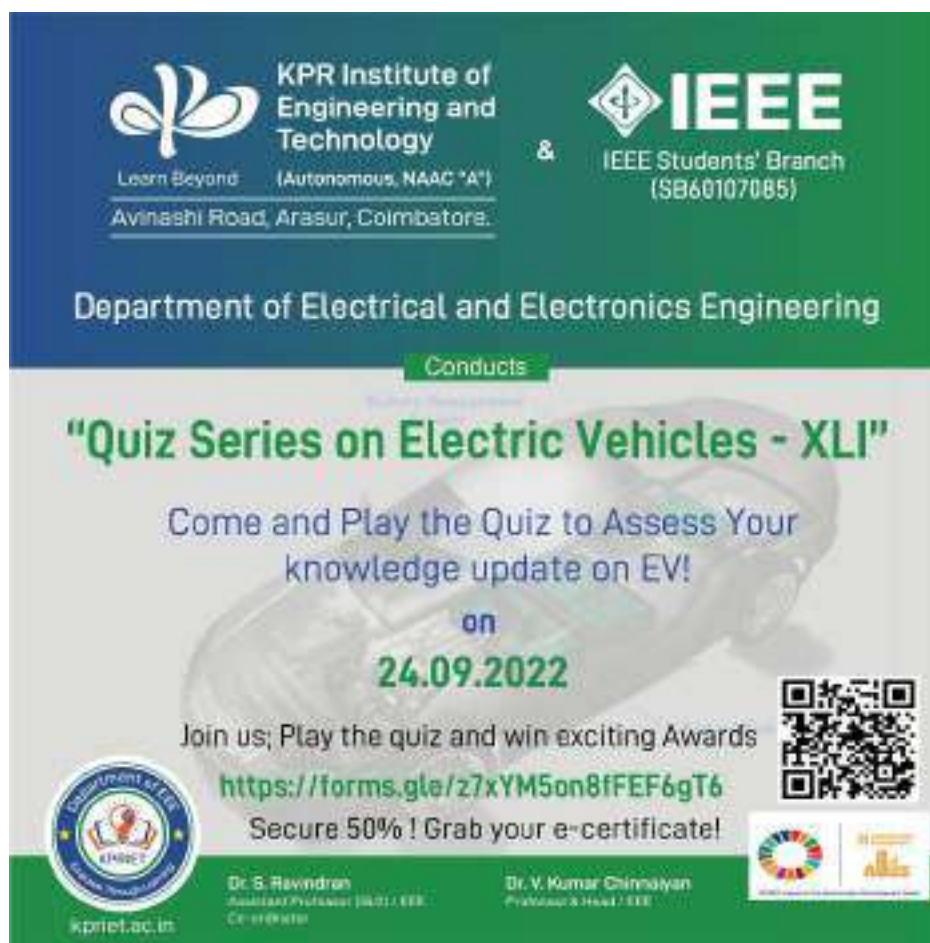
Quiz Series on Electric Vehicles

The department of Electrical and Electronics Engineering organized a “Quiz Series on Electric Vehicles – XLI” on 24.09.2022 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 have participated in this quiz.

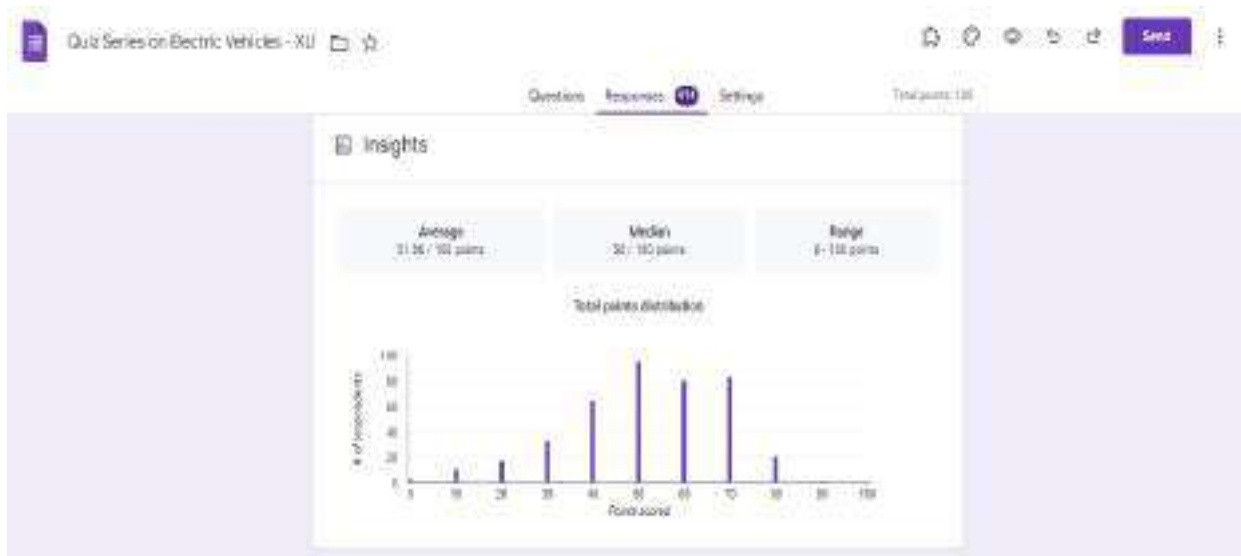
- This Quiz had 10 questions covering Electric Vehicle Technologies
- Each question carries 10 marks.
- The participants who scored 50% and above were issued with Certificate of Appreciation.

The details of the Program Participants are given below:

Total Participants	:	414
Participants cleared the quiz and received Certificate	:	349



The poster is a green and white graphic. At the top left is the KPR Institute of Engineering and Technology logo with the tagline 'Learn Beyond' and 'Autonomous, NAAC 'A'' and the address 'Avinashi Road, Arasur, Coimbatore.'. To the right is the IEEE logo and 'IEEE Students' Branch (SB60107085)'. Below this is the text 'Department of Electrical and Electronics Engineering' and 'Conducts'. The main title is '"Quiz Series on Electric Vehicles - XLI"'. Below the title is the text 'Come and Play the Quiz to Assess Your knowledge update on EV!' and 'on 24.09.2022'. Further down is 'Join us; Play the quiz and win exciting Awards' and the URL 'https://forms.gle/z7xYM5on8fFEF6gT6'. Below the URL is 'Secure 50% ! Grab your e-certificate!'. At the bottom left is the KPR Institute logo and 'kpriet.ac.in'. At the bottom right are the names and titles of Dr. S. Ravindran (Assistant Professor | B.E. | IEEE) and Dr. V. Kumar Chinnaiyan (Professor & Head | IEEE). There is also a QR code and a small graphic of a car.



Field Visit

The department of Electrical and Electronics Engineering organized a field trip for II EEE students on 28/09/2022. The 108 students along with four faculty members were visited the 110kV/33kV/11kV substation, Somanur to explore the distribution network of electrical power supply, function of substation components (Power transformers, circuit breakers, feeders, earthing and insulators).





Publication by the Faculty Members

1. Mr.S.Vivekanandhan, "Smart Energy Efficient Home Automation Using Telegram", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, September 2022.
2. Mr.G.Saravanan, "Unmanned Solar Powered Paint Bot", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, September 2022.
3. Dr.R.Sampathkumar, "Detection of Energy Theft and Fault in Transmission Lines", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, September 2022.
4. Dr.C.Pazhanimuthu, "Pole Line Fault Detection System", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, September 2022.
5. Dr.D.Sathishkumar, "IoT Based Three Phase Power Monitoring and Failure Using SMS Alerts", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, September 2022.

6. Ms.B.Lalitha, "Water Level Monitoring and Control System Using IoT", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, September 2022.
7. Mr.A.Mohamed Ibrahim, "Performance Assessment of Self Charging E-Cycle", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, September 2022.
8. Mr.V.Kamalkumar, "IoT Based Health Monitoring System", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, August 2022.
9. Mr.C.J.Vignesh, "Environment Monitoring in Factories Using IoT for Employee Safety", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, August 2022.
10. Mr.C.Dinesh, "Gesture Controlled Mechanism of Robot Using Ardiuno", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, August 2022.

Patent and Book Chapter Publication by the Faculty Members

1. Dr.P.Pandiyan, filed the patent of “Primitive Women Safety CCTV Surveillance Automation and Intelligent Mobile Application by Vigilant Monitoring of Frames” in September 2022.
2. Dr.P.Pandiyan, published the book chapter in the title of “Impact of artificial intelligent techniques in distributed smart grid monitoring system” in Smart Energy and Electric Power Systems, September 2022.

Students Project

1. Mr.S.Nidhin, Mr.S.Raguram, Mr.R.Sanjay, II EEE – Team Wiremasters was selected among top 50 teams in the Samsung Solve for Tomorrow Event 2022. The boot camp and final pitching event to be take place at IIT Delhi campus from 15/09/2022 - 17/09/2022.
2. Mr.S.S.Harish, Mr.E.V.S.Abhisek, Mr.S.Anandha Kumar, Mr.S.Deepan Kumar, Mr.P.Dhanaraj, II EEE won the second place for the contest of All-Terrain Vehicle (ATV) and drag race in the International level technical festival “Technovit 2022” conducted by VIT Chennai on 20/09/2022.
3. Mr.Sukant, II EEE won the second place for the drone race contest in the International level technical festival “Technovit 2022”conducted by VIT Chennai on 25/09/2022.



Faculty Participation in FDP/Seminar/Workshop/Orientation Program

S. No	Faculty Name	Type of the Event	Event Name	Venue	Duration of the Event
1	Dr.J.Karpagam	FDP	Professional Development Programme on Implementation of NEP - 2020 for University and College Teachers	Indira Gandhi National Open University, New Delhi	09/09/2022 - 17/09/2022
2	Dr.A.Karthick	Webinar	Intel Webinar on AI in Agriculture	INTEL	10/09/2022
3	Dr.V.Parimala	Workshop	Wireless Charging of EVs	IEEE -PDH	28/09/2022
4	Dr.V.Parimala	FDP	Trends & Challenges in the Development of Electric & Hybrid Electric Vehicles (Series 1)	Lendi Institute of Engineering & Technology, Andhra Pradesh	26/09/2022 - 30/09/2022
5	Dr.I.Baranilingesan	FDP	Recent Tools & Technologies for Data Science and Artificial Intelligence	Madanapalle Institute of Technology & Science, Andhra Pradesh	19/09/2022 - 26/09/2022

Students Participation in FDP/Seminar/Workshop/Orientation Program

S.No	Faculty Name	Class / Section	Event Name	Venue	Duration of the Event
1	Aravindh K.	IV	Quiz Series on Physics	KPR Institute of Engineering and Technology	07/09/2022
2	Aravind V.	IV	Bootcamp	VIT, Chennai	07/09/2022
3	Aravind V.	IV	Intel Webinar on AI in Agriculture	INTEL	10/09/2022
4	Dharinish Raja K.	III	Technical Level Technical Symposium GRID 2022	KSR College of Engineering, Tiruchengode	30/09/2022



5	Mugilan M.	III	Technical Level Technical Symposium GRID 2022	KSR College of Engineering, Tiruchengode	30/09/2022
6	Murugan P.	III	Technical Level Technical Symposium GRID 2022	KSR College of Engineering, Tiruchengode	30/09/2022
7	Venkatachalam R.	III	Technical Level Technical Symposium GRID 2022	KSR College of Engineering, Tiruchengode	30/09/2022

Student Placement Details

S.No.	Student Name	Organization
1	GOKULAKANNAN M.	SANMINA – SCI TECHNOLOGY
2	RANJITH SHANKAR M.	CODEYOUNG



KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC 'A')
 Avinashi Road, Arasur, Coimbatore



AICTE-CII
 Best Industry-Linkage Award - 2020



Congratulations!

For Winning Award in Technical Fest



Mr. S. Harish



Mr. E. V. S. Abhisek



Mr. A. Anandha Kumar



Mr. S. Deepan Kumar



Mr. P. Dhanaraj

Second Year - EEE

Won Second Place for the Contest of All-Terrain Vehicle (ATV) and Drag Race in the International-level Technical Festival "Technovit 2022" Conducted at VIT, Chennai on 20.09.2022

SUSTAINABLE DEVELOPMENT GOALS

KPRIET supports the Sustainable Development Goals



Great Place To Work Certified

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Centre for Excellence



Industry Institute Interaction



Top Recruiters



and many more...



R & D

h index	95+	i10	110+	Publications	410+
Patents	22+	Conferences	120+	Copyrights	1
NPTEL	250+	Awards	18+	Citations	5450+

Funds Received



Internships

Students	Faculty
300+ 2018-19	25+ 2018-19
350+ 2019-20	50+ 2019-20
380+ 2020-21	56+ 2020-21
310+ 2020-21 * Dec 2021	25+ 2020-21 * Dec 2021

CONTACT

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 Ph: 0422 2635600, Email: hod_eee@kpriet.ac.in



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