

Department of Electrical and Electronics Engineering
KPR 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 be 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

Inauguration of EKKI-KPRIET International Water Technology Centre

KPR Institute of Engineering and Technology in association with EKKI Pumps, Coimbatore has established “EKKI-KPRIET International Water Technology Centre” at KPRIET Campus. The inauguration of the centre was held on 12/11/2021 in the presence of Dr. K. P. Ramasamy, Chairman, KPR Groups, Mr. P. Arumugam, Chief Executive, EKKI Pumps, Mr. A.Kanishka, Co-CEO, EKKI Pumps, Dr. A. M. Natarajan, Chief Executive and Dr. M. Akila, Principal, KPRIET. Ms. Karin Stoll, Consul General of Federal Republic of Germany, Chennai was the chief guest for the inauguration. Dr. M. Akila, Principal of KPRIET welcomed the gathering followed by felicitation address of Mr.P.Arumugam, CEO, EKKI Pumps. In his speech he highlighted the advantages of such Industry - Institute joint ventures that benefits the students in upskilling their practical knowledge, improving the self-confidence, scope for honing their skills and unique features in KPRIET.

Ms.Karin Stoll the chief guest address appreciated the best practices of KPRIET and felt delightful in joining hands with EKKI Pumps and bringing up the technocrats to the expectations of global job market. She elaborated that this venture would help the students to get good industrial exposure and placement in core MNCs. This EKKI-KPRIET International Water Technology Centre facilitates the students to serve as interns in the college premises rather than reaching out to the industry.



Quiz Series on Electric Vehicles - XXVI

The department of Electrical and Electronics Engineering organized a “Quiz Series on Electric Vehicles – XXVI” on 20/11/2021 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	:	495
Participants cleared the quiz and received Certificate	:	424
Participants from other Nations, Institutions and Universities	:	431
Participants from KPRIET	:	64

The poster features a green and blue color scheme. At the top left is the KPR Institute of Engineering and Technology logo with the tagline 'Learn Beyond' and '(Autonomous, NAAC "A")'. To its right is the IEEE logo and 'IEEE Students' Branch (SB60107085)'. Below these is the text 'Department of Electrical and Electronics Engineering' and 'Conducts'. The main title is 'Quiz Series on Electric Vehicles - XXVI' in large green font. Below it, the text reads 'Come and Play the Quiz to Assess Your knowledge update on EV!' followed by 'on 20.11.2021'. A call to action says 'Join us! and Play the Quiz' with a URL: <https://forms.gle/iLVxQnHLBgdvNtnt9>. It also says 'Secure 50% ! Grab your e-certificate!'. At the bottom, there are logos for the Department of EEE, KPRIET, and the 11th Sustainable Development Goals. Two coordinators are listed: Dr. S. Ravindran (Assistant Professor (Sr.G) / EEE, Co-ordinator) and Dr. V. Kumar Chinnaiyan (Professor & Head / EEE). The website kpriet.ac.in is also mentioned.

Faculty Orientation Program on Automation of Domestic Appliances

The department of Electrical and Electronics Engineering organized a faculty orientation program on “Automation of Domestic Appliances – An Overview” on 27/11/2021 for faculty community. A heart-warming welcome was delivered by Dr.V.Kumar Chinnaiyan, Professor and Head, Dept. of EEE. Dr.C.Pazhanimuthu, AP (Sl.G) has delivered valuable presentation on role, importance and recent technologies in automation of domestic appliances. He had presented the discussions on

- Need and importance of home automation
- Different technologies used in home automation
- Typical structure and potential of IoT implementation
- Implementation of home automation projects

The orientation program provided some of the interesting facts in home automation and IoT implementation to the faculty members. Dr.V.S.Chandrika, AsP/EEE and Ms.P.Praveena, AP/EEE handled the hands on trainings. The vote of thanks was delivered by Dr.V.S.Chandrika, AsP/EEE. There were fifteen faculty attended the programme and get benefited. The department of EEE thanks to the management for providing this opportunity to conduct the orientation program successfully.



The poster features a blue and green color scheme with a white background. At the top left is the KPR Institute of Engineering and Technology logo with the tagline 'Learn Beyond' and '(Autonomous, NAAC "A")'. Below it is the TNEA Counselling Code: 2764. To the right is the Department of EEE logo (KPRIET) and a gold trophy icon with the text 'AICTE-CII Best Industry-Linkage Award - 2020 Electrical Engineering and Allied'. The main text in the center reads: 'Department of Electrical and Electronics Engineering Organizes a Faculty Orientation Program on "Automation of Domestic Appliances - An Overview"'. Below this is a circular portrait of Dr.C.Pazhanimuthu, Assistant Professor (Sl.G), Department of EEE, KPRIET, Coimbatore. To the right of the portrait are the coordinators: Dr.V.S.Chandrika, AsP and Ms.P.Praveena, AP. At the bottom left are logos for 'Sustainable Development Goals' and '4th Edition'. At the bottom center is a box with the venue: 'Home Appliances and Home Automation Laboratory'. The bottom right corner features the KPRIET logo with the tagline 'LEARN BEYOND'.



List of Eminent Academicians/Scientists Visit

S.No.	Name and Designation	Organization
1	Mr. P. Arumugam, Chief Executive	EKKI Pumps, Coimbatore
2	Mr. A.Kanishka, Co-CEO	EKKI Pumps, Coimbatore
3	Ms. Karin Stoll, Consul General of Federal Republic of Germany	Chennai

Faculty Online Certification Details

S.No	Faculty Name	Type of the Course	Course Name
1	Dr.V.Kumar Chinnaiyan	NPTEL	Design Thinking- A Primer
2	Dr.J.Karpagam	NPTEL	Design Thinking- A Primer
3	Dr.R.Uthirasamy	NPTEL	Design Thinking- A Primer
4	Dr.A.Karthick	NPTEL	Physics of Renewable Energy Systems
5	Dr.P.Pandiyan	NPTEL	Innovation By Design
6	Mr.S.Vivekanandan	NPTEL	Fundamentals of Artificial Intelligence
7	Mr.G.Saravanan	NPTEL	Design for Internet of Things
8	Dr.C.Pazhanimuthu	NPTEL	Design for Internet of Things
9	Dr.S.Ravindran	NPTEL	Design of Photovoltaic Systems
10	Dr.I.Baranilingesan	NPTEL	Physics of Renewable Energy Systems
11	Mr.R.Sampathkumar	NPTEL	Solar Energy Engineering and Technology

12	Ms.R.Revathi	NPTEL	Physics of Renewable Energy Systems
13	Mr.A.Mohamed Ibrahim	NPTEL	Fundamentals of Artificial Intelligence
14	Mr.P.Ravikumar	NPTEL	Innovation by Design
15	Mr.P.Ravikumar	NPTEL	Patent Law for Engineers and Scientist
16	Mr.V.Kamalkumar	NPTEL	Fundamentals of Artificial Intelligence
17	Mr.C.Dinesh	NPTEL	Design for Internet of Things

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

S. No	Student Name	Year	Event	Organizing Institute	Date
1	SETHUMADHAVAN A.	II-B	Quiz	KPR Institute of Engineering and Technology, Coimbatore	28/10/2021 – 03/11/2021
2	SWETHA V.	II-B	Quiz	KPR Institute of Engineering and Technology, Coimbatore	14/11/2021

Students Online Certification Details

S.No	Faculty Name	Year	Type of the Course	Course Name
1	DHANABAL M.	II EEE A	NPTEL	Solar Energy Engineering and Technology
2	GOWTHAM S.	II EEE A	NPTEL	Solar Energy Engineering and Technology
3	HARI HARA SUDHAN M.	II EEE A	NPTEL	Solar Energy Engineering and Technology
4	JANANI J.	II EEE A	NPTEL	Solar Energy Engineering and Technology

5	JONES BARNABAS P.	II EEE A	NPTEL	Solar Energy Engineering and Technology
6	KOWSALYA M.	II EEE A	NPTEL	Solar Energy Engineering and Technology
7	AISHWARYAA R.	IV EEE A	NPTEL	Developing Soft skills and Personality
8	ASHOK S.	IV EEE A	NPTEL	Developing Soft skills and Personality
9	BALAJI Pa.	IV EEE A	NPTEL	Developing Soft skills and Personality
10	BALAKARTHICK V.	IV EEE A	NPTEL	Developing Soft skills and Personality
11	SURESH S.	IV EEE B	NPTEL	Cloud Computing
12	KATHIR VIGNESH S.	IV EEE B	NPTEL	Cloud Computing
13	KIRUTHIC P.	IV EEE A	NPTEL	Software Testing
14	PREETHI S.	IV EEE B	NPTEL	Stress Management

Student Placement Details

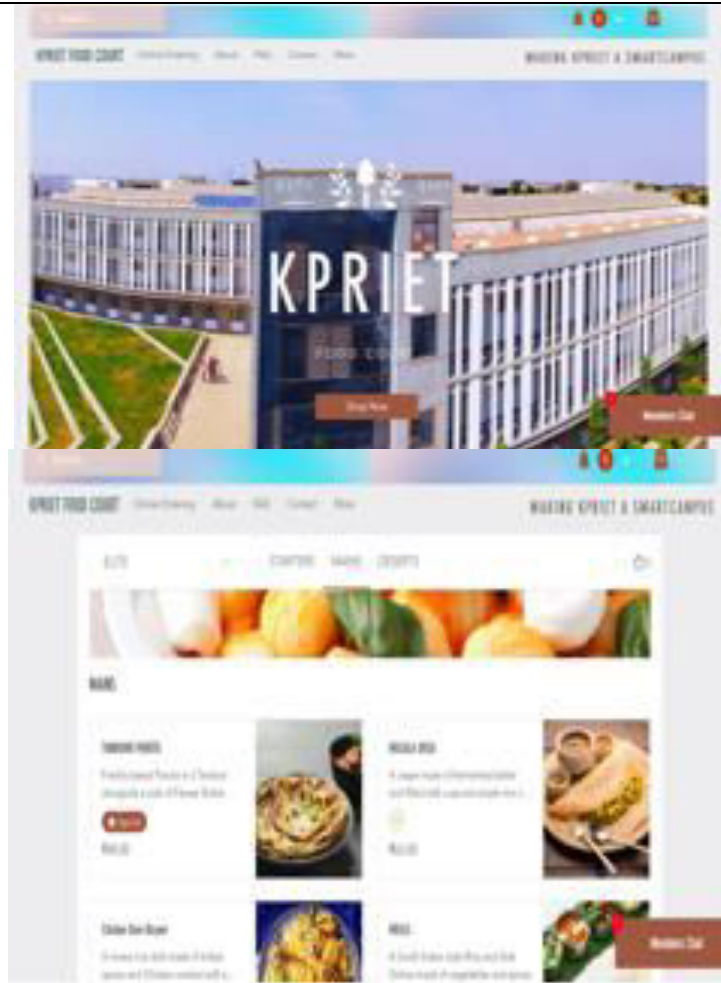
S.No.	Student Name	Organization
1	PANDIARAJAPRABHU T.	Wipro Technology, Bangalore
2	RUBAVASAN N.	Wipro Technology, Bangalore
3	SRINITHI S.	Wipro Technology, Bangalore
4	VIGNESK K.	Wipro Technology, Bangalore
5	SHRI HARI A.	Wipro Technology, Bangalore
6	RAGIPINDI ANAND KUMAR REDDY	Wipro Technology, Bangalore
7	GOKUL D.	Wipro Technology, Bangalore
8	AARTHI K.	Wipro Technology, Bangalore
9	PREETHI S.	Wipro Technology, Bangalore
10	SHARANYA K.K.	Wipro Technology, Bangalore

11	RESHMA S.J.	Wipro Technology, Bangalore
12	SURESH S.	Wipro Technology, Bangalore
13	RAGIPINDI ANAND KUMAR REDDY	Tech Mahindra, Chennai
14	AARTHI K.	Tech Mahindra, Chennai
15	KAMALAKKUMAR S.	Tech Mahindra, Chennai
16	SRI HARISH A.	Tech Mahindra, Chennai
17	KATHIRESAN C.	Tech Mahindra, Chennai
18	SHAROOK R.	Tech Mahindra, Chennai
19	SURESH S.	Tech Mahindra, Chennai
21	POOJITHA S.	Tech Mahindra, Chennai
22	MYVIZHI S.	Tech Mahindra, Chennai
23	PANDIARAJAPRABHU T.	Tech Mahindra, Chennai
24	RUBAVASAN N.	Tech Mahindra, Chennai
25	SRINITHI S.	Tech Mahindra, Chennai
26	VENKATESHWARAN R.	Tech Mahindra, Chennai
27	TAMILARASAN P.	Tech Mahindra, Chennai
28	ROSHAN AKTHER A.	Tech Mahindra, Chennai
29	BOOPATHI G	Tech Mahindra, Chennai
30	HARIHARAN U.	Tech Mahindra, Chennai
31	PREETHI S.	Tech Mahindra, Chennai
32	SUSHMITHA S.P.	Tech Mahindra, Chennai
33	ARAVIND B.	Tech Mahindra, Chennai
34	GOKUL D.	Tech Mahindra, Chennai
35	SUKEERTHAN M.	Tech Mahindra, Chennai
36	VENKATESWARAN R.	Zappy Works, Chennai

Product Development

Product Title	SMART PAY – KPRIET CAMPUS
Name of the Supervisor	Dr. V. Kumar Chinnaiyan / EEE Dr. V. S. Chandrika / EEE Prof. A. Mohamed Ibrahim / EEE
Product Description	<p>OBJECTIVES</p> <ul style="list-style-type: none"> ❖ To develop online food ordering system ❖ To generate a multipurpose identity card ❖ To avoid crowd and save time ❖ To make KPR a smart pay campus <p>METHODOLOGY</p> <ul style="list-style-type: none"> ❖ ID (Bar Code) used for payment ❖ Web Development for online food ordering ❖ Android App Development for Paperless Transaction ❖ Using KPR-PAY (RAZORPAY as of now) as a Wallet for collecting payment <p>RESULTS AND DISCUSSION</p> <ul style="list-style-type: none"> ❖ Barcode payment ❖ Reservations and table booking system ❖ Amount refund within seconds ❖ Chat ❖ Immediate merchant updates

**Photograph
of the
Product**



**Project
Application**

It can be used for in the food court, stationary and everywhere inside the campus.

Student's Corner



ART GALLERY



R. Anbu Ram/ II EEE-A

Student's Corner



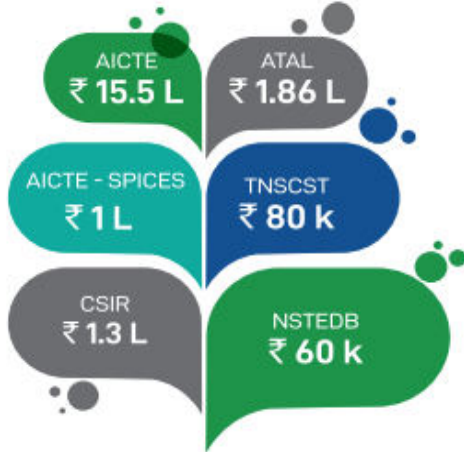
R. Anbu Ram/ II EEE-A

ART GALLERY

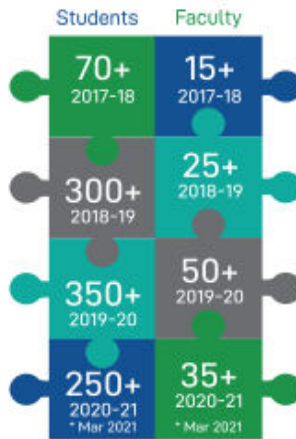


R. Pradeepa/ II EEE-B

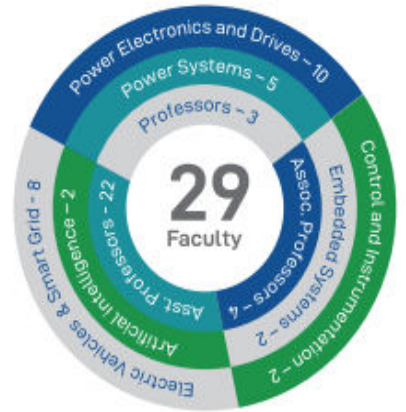
Funds Received



Internships



Faculty Details



Centre for Excellence



Industry Institute Interaction



Top Recruiters



and many more....



KPR IAS Academy

Institute for UPSC Exams



kpriasacademy.in

Facilities @ KPRIET



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