

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



# NEWSLETTER



**ELECTROBLITZ**

**VOLUME 7, ISSUE 1**  
**January 2021**

# **EDITORIAL BOARD**

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**KPR**

**Institute of Engineering  
and Technology**

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407

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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.Mohanasundaram	Professor
4.	Dr.R .Uthirasamy	Associate Professor
5.	Dr.V.S.Chandrika	Associate Professor
6.	Dr.P.Pandiyan	Associate Professor
7.	Mr.S.Vivekanandan	Assistant Professor (Sl.G)
8.	Mr.G.Sarvanan	Assistant Professor (Sl.G)
9.	Dr.A.Karthick	Assistant Professor (Sl.G)
10.	Mr.R.Sampath Kumar	Assistant Professor (Sl.G)
11.	Mr.A.Gowri Shankar	Assistant Professor (Sr.G)
12.	Mr.D.Sathish Kumar	Assistant Professor (Sr.G)
13.	Ms.B.Lalitha	Assistant Professor (Sr.G)
14.	Ms.V.J .Vijayalakshmi	Assistant Professor (Sr.G)
15.	Ms.R .Revathi	Assistant Professor (Sr.G)
16.	Mr.A.Mohamed Ibrahim	Assistant Professor (Sr.G)
17.	Mr.P.Ravikumar	Assistant Professor (Sr.G)
18.	Dr.C.Pazhanimuthu	Assistant Professor (Sr.G)

19.	Dr.S.Ravindran	Assistant Professor (Sr.G)
20.	Mr.V.Kamal Kumar	Assistant Professor
21.	Mr.K.Balamurugan	Assistant Professor
22.	Mr.C.J.Vignesh	Assistant Professor
23.	Ms.S.Divya	Assistant Professor
24.	Ms.P.Praveena	Assistant Professor
25.	Dr.I.Baranilingesan	Assistant Professor
26.	Mr.C.Dinesh	Assistant Professor
27.	Mr.M.Mohanasundaram	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

### Ideathon 2021

The department of Electrical and Electronics Engineering and EKKI KPRIET International Water Technology Centre (EIWTC) organized an Ideathon 2021 with theme of “Digital Water Technology Start-Up Ideas” from 06/01/2021 to 06/02/2021 for students community. 20 teams were participated and the students are appreciated for their ideas.

The poster features the logos of the Department of EEE (KPRIET) and KPR Institute of Engineering and Technology. It includes the text "Learn Beyond", the address "Avinashi Road, Arasur, Coimbatore.", and the date range "06/01/2021 – 12/01/2021". The main title "IDEATHON 2021" is prominently displayed with a lightbulb icon. Below it, the subtitle "( Digital Water Technology Start-up Ideas)" is shown. A QR code is provided for uploading ideas. Faculty coordinators listed are Ms.B.Lalitha, AP(Sr.G)/EEE, 9500531043; Mr.C.Senthil Kumar, AP(Sr.G.)/Mech, 9843552886; Ms.P.Indhradevi, AP(Sr.G.) /Civil, 9940825795; Dr.E.Nakkeeran, AP(Sr.G.)/Chemical, 8144497087. The website kpriet.ac.in is at the bottom.

## **Younker Contest 2021**

The department of Electrical and Electronics Engineering and EnSAv club organized a Younker Contest 2021 with theme of “Hour without power, Just enough is enough energy, Energy is life and India can be a energy star” in “Youth Talk, Youth Presentation, Youth Article Contest, Youth Photo Contest, Youth Tech Spark” on 12.01.2021 for students community. A heart-warming welcome remark was delivered by Dr. V. Kumar Chinnaiyan, Professor & Head, Department of EEE, KPR Institute of Engineering and Technology. 84 Participants from various institutions participated in different events and the students are appreciated with certificates. Prof. A. Mohamed Ibrahim, Assistant Professor (Sr.G) and Prof. D. Sathish Kumar, Assistant Professor (Sr.G), Department of EEE proposed the vote of thanks.

**EMPOWERING NATION**

# **YOUNKER CONTEST 2021**

**JANUARY 12, 2021 - 10.00 AM**  
**VIRTUAL CONTEST - GOOGLE MEET**

<b>EVENTS</b>	<b>THEME</b>
YOUTH TALK	Hour without Power
YOUTH PRESENTATION	Just Enough is Enough Energy
YOUTH ARTICLE CONTEST	Energy is Life
YOUTH PHOTO CONTEST	India can be a Energy Star
YOUTH TECH SPARK	

Who can participate?  
Category 1 - 9<sup>th</sup> and 10<sup>th</sup> standard students  
Category 2 - 11<sup>th</sup> and 12<sup>th</sup> standard students  
Category 3 - Students pursing UG in any recognized colleges across India

register at  
[http://bit.ly/Youth\\_Talk\\_2021](http://bit.ly/Youth_Talk_2021)

**Convenor**  
Dr. V. Kumar Chinnaiyan  
Professor and Head / EEE

**Coordinators**  
Prof. A. Mohamed Ibrahim  
Assistant Professor (Sr.G) / EEE  
Prof. D. Sathish Kumar  
Assistant Professor (Sr.G) / EEE

**Student Coordinators**  
Mr. M. Omesh Ram  
Pre - Final Year / EEE  
Ms. K. Darsini  
Pre - Final Year / EEE

82480 41365 | 93600 79197 | 80151 43858

Jointly organised by

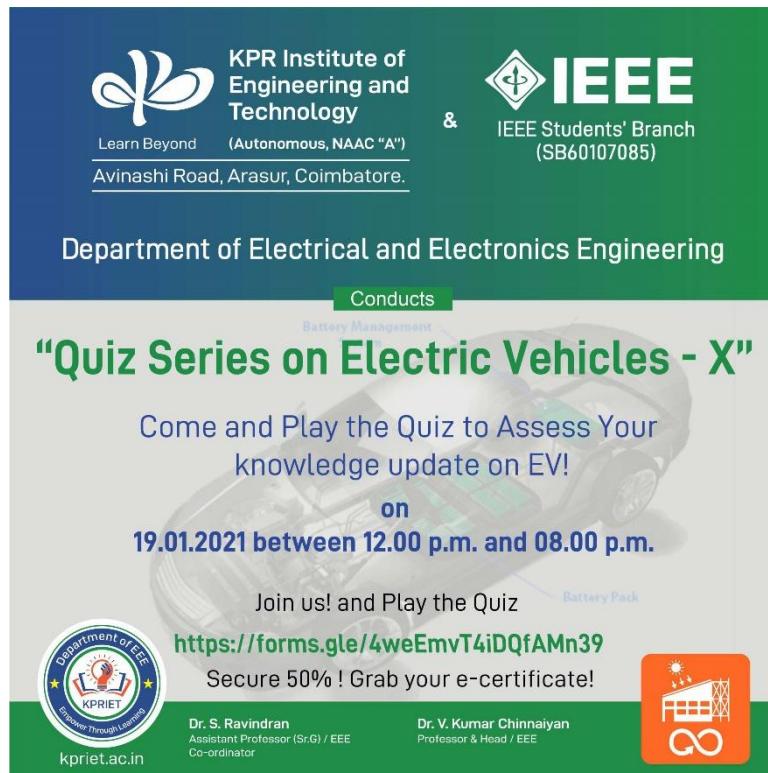
## Quiz Series on Electric Vehicles - X

The department of Electrical and Electronics Engineering organized a “**Quiz Series on Electric Vehicles – X**” on 19.01.2021 open to all, who are keen on emerging EV technologies. The poster is circulated to various Institutions and in social media digitally. The quiz started by 12.00 pm and closed at 08.00 pm. 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	:	324
Participants cleared the quiz and received Certificate	:	286
Participants from other Nations, Institutions and Universities	:	307
Participants from KPRIET	:	17



## **Quiz Webinar on Opportunities for Electrical Engineers in TNEB:**

### **Demystification**

The department of Electrical and Electronics Engineering & Career Advancement Cell organized a webinar on “Opportunities for Electrical Engineers in TNEB: Demystification” on 25.01.2021 for students community. A heart-warming welcome remark was delivered by Dr.I.Baranilingesan, Assistant Professor, Department of EEE. Er.B.Gobu, M.E, M.I.E., Assistant Engineer, Grid Relay Test, TANTRANSCO, Coimbatore, Tamilnadu Presented the following deliberations

- Explained about TANTRANSCO
- Various Positions and levels in TNEB
- Syllabus and Examination of TNEB

Students expressed their gratitude towards the resource person for knowledge which he shared. This webinar is interesting for the students. 80 Participants from various institutions have attended the webinar. Dr.I.Baranilingesan, Assistant Professor, Department of EEE proposed the vote of thanks.



#### **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING & CAREER ADVANCEMENT CELL Organize a webinar on “Opportunities for Electrical Engineers in TNEB: Demystification”**

Date and time: 23.01.2021, 06.00 PM



Er.B.Gobu, M.E., M.I.E.,  
Assistant Executive Engineer  
Grid Relay Tests  
TANTRANSCO  
Coimbatore.

Google meet link: <http://meet.google.com/qqp-myiy-gas>

#### **Convenors**

Dr.V.Kumar Chinnaiyan  
Head, Dept. of EEE

Dr.M.Kathirvelu  
Head, Dept. of ECE

Coordinator:  
Dr.I.Baranilingesan  
Assistant Professor/EEE

[www.kpriet.ac.in](http://www.kpriet.ac.in)

## List of Eminent Academicians/Scientists Visit

S.No.	Name and Designation	Organization
1	Er.B.Gobu, Assistant Engineer	Grid Relay Test, TANTRANSCO, Coimbatore

## Faculty Online Certification

S.No	Faculty Name	Name of the Course	Credits/Grade	Organization
1	Dr. V. Kumar Chinnaiyan	Teaching and Learning in General Programs: TALG	1 Elite	NPTEL
2	Dr. V. Kumar Chinnaiyan	Ethics in Engineering Practice	2 Elite+Silver	NPTEL
3	Dr. V. Kumar Chinnaiyan	Educational Leadership	2 Elite	NPTEL
4	Dr.J.Karpagam	Teaching and Learning in General Programs: TALG	2 Elite+Silver	NPTEL
5	Dr.J.Karpagam	Ethics in Engineering Practice	2 Elite	NPTEL
6	Dr.J.Karpagam	Educational Leadership	2 Elite+Silver	NPTEL
7	Dr.R.Uthirasamy	Teaching and Learning in General Programs: TALG	1 Elite+Silver	NPTEL
8	Dr.R.Uthirasamy	Ethics in Engineering Practice	2 Elite	NPTEL
9	Dr.R.Uthirasamy	Educational Leadership	2 Elite+Silver	NPTEL
10	Mr.G.Saravanan	Op-Amp Practical Applications: Design, Simulation and Implementation	3 Elite	NPTEL
11	Ms.V.J.Vijayalakshmi	Designing Learner-Centric E- Learning in STEM Disciplines	1 Elite	NPTEL
12	Ms.V.J.Vijayalakshmi	Ethics in Engineering Practice	2 Elite+Silver	NPTEL
13	Ms.V.J.Vijayalakshmi	Educational Leadership	2 Elite+Silver	NPTEL

14	Ms.R.Revathi	DC Microgrid and Control System	2 Elite	NPTEL
15	Mr.P.Ravikumar	Designing Learner-Centric E-Learning in STEM Disciplines	1 Elite	NPTEL
16	Mr.P.Ravikumar	Ethics in Engineering Practice	2 Elite	NPTEL
17	Mr.P.Ravikumar	Educational Leadership	2 Elite	NPTEL
18	Mr.P.Ravikumar	Introduction to Research	2 Elite	NPTEL
19	Mr.P.Ravikumar	Design Thinking – A Primer	1 Elite+Silver	NPTEL
20	Dr. C.Pazhanimuthu	Introduction to Smart Grid	2 Elite	NPTEL

## Students Online Certification

S.N o	Student Name	Year	Course	Credit	Result
1	J. Sudharsana	II EEE B	Data Science for Engineers	3	Successfully Completed
2	R. Suthamathi	II EEE B	Soft Skills	3	Elite
3	K. Aarthi	III EEE A	Digital Circuits	3	Successfully Completed
4	R. Aishwaryaa	III EEE A	Introduction to Smart Grid	2	Successfully Completed
5	S. Akash	III EEE A	Introduction to Smart Grid	2	Successfully Completed
6	B. Aravind	III EEE A	Introduction to Smart Grid	2	Successfully Completed
7	S. Ashok	III EEE A	Introduction to Embedded System Design	3	Successfully Completed
8	Pa Balaji	III EEE A	Introduction to Smart Grid	2	Successfully Completed
9	N. Bharathwaj	III EEE A	Introduction to Smart Grid	2	Successfully Completed
10	P. Boobalan	III EEE A	Introduction to Smart Grid	2	Successfully Completed
11	K. Darsini	III EEE A	Digital Circuits	3	Successfully Completed

12	S. Dhivya	III EEE A	Introduction to Smart Grid	2	Successfully Completed
13	D. Gokul	III EEE A	Introduction to Smart Grid	2	Successfully Completed
14	P. Kiruthic	III EEE A	Introduction to Internet of Things	3	Elite
15	P. Kiruthic	III EEE A	Introduction to Smart Grid	2	Successfully Completed
16	M.Mohamed Harish	III EEE A	German - I	3	Elite
17	M.Mohamed Harish	III EEE A	German - II	3	Successfully Completed
18	S.Myvizhi	III EEE A	Introduction to Smart Grid	2	Successfully Completed
19	S.Myvizhi	III EEE A	Enhancing Soft Skills and Personality	2	Elite
20	N. Navaneethan	III EEE A	Introduction to Smart Grid	2	Successfully Completed
21	A. Naveen	III EEE B	Stress Management	1	Successfully Completed
22	S. Preethi	III EEE B	Introduction to Internet of Things	3	Successfully Completed
23	K.M. RamPrasad	III EEE B	Stress Management	1	Elite
24	S. Ranjith Kumar	III EEE B	Stress Management	1	Successfully Completed
25	K. K. Sharanya	III EEE B	Soft Skills	3	Elite
26	R.Sharook	III EEE B	Stress Management	1	Successfully Completed
27	S. Ameer Khan	IV EEE A	Enhancing Soft Skills and Personality	2	Elite

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

S.No	Student Name	Year	Course	Date
1	Dhivya M.	II EEE A	KPRIET - Bosch Hand - Holding session	06/01/2021 - 12/01/2021
2	Gokul S.	II EEE A	KPRIET - Bosch Hand - Holding session	06/01/2021 - 12/01/2021

3	Sudharsana J.	II EEE B	KPRIET - Bosch Hand - Holding session	06/01/2021 - 12/01/2021
4	Suvetha M.C.	II EEE B	KPRIET - Bosch Hand - Holding session	06/01/2021 - 12/01/2021
5	Balakarthick V.	III EEE A	KPRIET - Bosch Hand - Holding session	06/01/2021 - 12/01/2021
6	James I.	III EEE A	KPRIET - Bosch Hand - Holding session	06/01/2021 - 12/01/2021
7	Venkatachalam	III EEE B	KPRIET - Bosch Hand - Holding session	06/01/2021 - 12/01/2021
8	Kathir Vignesh S.	III EEE B	KPRIET - Bosch Hand - Holding session	06/01/2021 - 12/01/2021

## Students Participation in Project Presentation

S.No	Student Name	Year	Project Contest
1	Kumaran G. Mariesh M. Sasidharan S.	IV EEE B	Toycathon 2021
2	Sri Durga K. Santhosh G. Rathish D. Sudharshana J.	II EEE B	Toycathon 2021
3	Dinesh Kumar S. Hari Prakash V. Ezhil Arasan S.	II EEE A	Toycathon 2021
4	Suwetha S. Murugavel Surya A.S. Nishok Anand R. Santhosh S. Sethumadhavan A. Vaishnavi K.	I EEE	Toycathon 2021

## Students Awards and Achievement

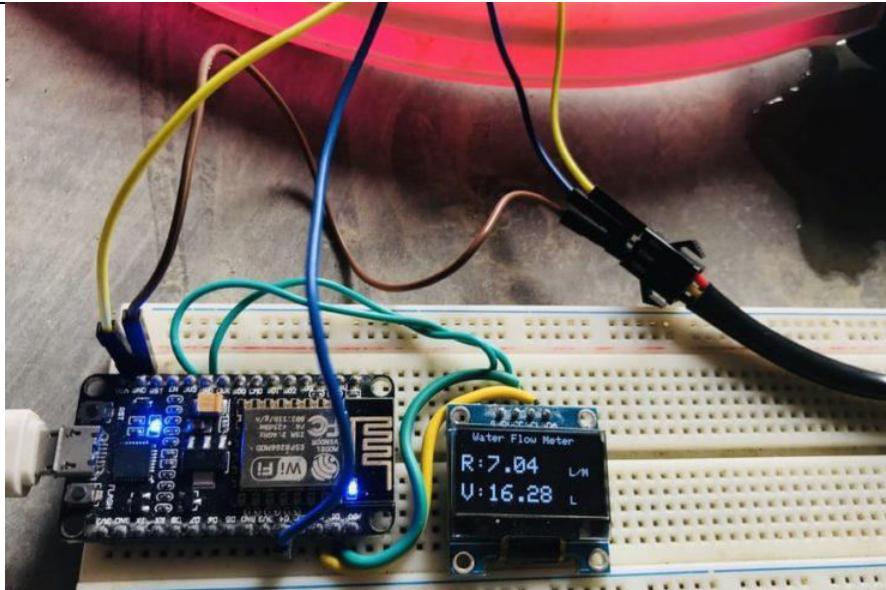
S.N o	Name of Student	Year	Event Name	Venue	Date
1	Kumaran G. Mariesh M. Sasidharan S.	IV - B	Ventura '21	Entrepreneurship Cell, NIT - Trichy	Short listed for next round

## Student Placement Details

S.No.	Student Name	Organization
1	DHEEPAK A.K.	EMBEDUR, ACCENTURE
2	KISHOR HARRI PRASANTH S.	ACCENTURE
3	HEPHZI A.	ACCENTURE
4	GOWREESH K.P.	ACCENTURE
5	PRAVEEN M.	ACCENTURE



## **Product Development**

<b>Product Title</b>	<b>CLOUD BASED WATER FLOW METER</b>	
<b>Name of the Supervisor</b>	Mr.G.Saravanan, AP(Sl.G)/EEE Mr.A.Mohamed Ibrahim, AP(Sr.G)/EEE Mr.C.Dinesh, AP/EEE	
<b>Product Description</b>	<p>The main objective of this project is to make water supply more accountable and transparent which reduces the manual assistance, deliver secure and time efficient solution for the complex water system. Our project works with IoT device which help to manage and plan the usage of water. The system can be easily installed in residential societies. Sensors placed in the tank which continuously informs the water level at the current time. This information will be updated on the cloud and using an android application, user can visualize the water level on a smart phone anywhere that is connected to Internet. Water management system is an important part of City Management. Water management involves supplying water according to the real requirement &amp; without wasting water. Without measuring these parameters, water management is almost impossible. Also monitoring the water volume, flow rate remotely using internet connectivity has become very essential. Therefore we designed the water management system through online.</p>	
<b>Photograph of the Product</b>		

# Student's Corner



## ART GALLERY



# Student's Corner



## ART GALLERY



G.Vinothini / III-EEE-B



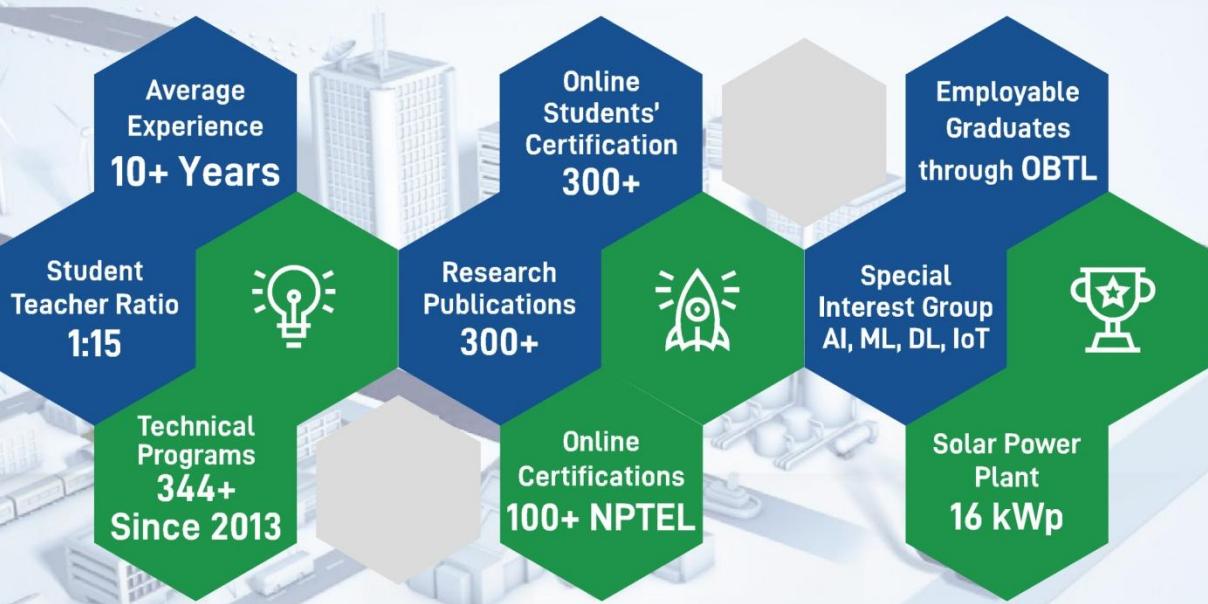
## Department of EEE

is sanctioned with  
Funds under  
**AICTE Scheme for Promoting  
Interests, Creativity and Ethics among  
Students (SPICES) for academic year  
2020 - 2021**

Funding  
upto  
Rs 1,00,000/-



### Highlights of the Department



### CONTACT

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**Department of Electrical and Electronics Engineering**  
**KPR Institute of Engineering and Technology**  
**Arasur, Coimbatore – 641 407.**

**Ph: 0422 2635600, Email: [hod\\_eee@kpriet.ac.in](mailto:hod_eee@kpriet.ac.in)**



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