

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



NEWSLETTER



ELECTROBLITZ

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April 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.Mohanasundaram	Professor
4.	Dr.R .Uthirasamy	Associate 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.Sarvanan	Assistant Professor (Sl.G)
10.	Mr.R.Sampath Kumar	Assistant Professor (Sl.G)
11.	Dr.A.Gowri Shankar	Assistant Professor (Sl.G)
12.	Dr.C.Pazhanimuthu	Assistant Professor (Sl.G)
13.	Mr.D.Sathish Kumar	Assistant Professor (Sr.G)
14.	Ms.B.Lalitha	Assistant Professor (Sr.G)
15.	Ms.V.J .Vijayalakshmi	Assistant Professor (Sr.G)
16.	Ms.R .Revathi	Assistant Professor (Sr.G)
17.	Mr.A.Mohamed Ibrahim	Assistant Professor (Sr.G)

18.	Mr.P.Ravikumar	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

Webinar on Latest Trend in Industrial Automation

The department of Electrical and Electronics Engineering organized a lecture by industry expert “Latest Trend in Industrial Automation” on 12.04.2021 for students community. A heart-warming welcome remark was delivered by Prof.C.Dinesh AP/EEE, Er Mohammed Akmal, Manager – Customer Services, Siemens, Coimbatore presented the following deliberations

- Smart Factory
- Industrial revolution
- Industrial IIoT
- Cyber security concerns
- Assest Management by OEMS
- Reliable equipment to power connectivity

Students expressed their gratitude towards the resource person for knowledge which the resource person shared. This lecture is interesting for the students and 62 were attended. The session ended with vote of thanks delivered by Prof.C.Dinesh.AP/EEE.



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



IEEE
& IEEE Students' Branch (SB60107085)



Department of EEE
KPRIET
Empower Through Learning

CONTEMPORARY ISSUES - LECTURE BY INDUSTRY EXPERT



LATEST TRENDS IN INDUSTRIAL AUTOMATION

Er. MOHAMMED AKMAL
Manager - Customer Service
Siemens, Coimbatore

12
APRIL 2021
02:00 PM - 03:00 PM



KPRIET
Industry Institute Partnership Cell



SUSTAINABLE DEVELOPMENT GOALS
KPRIET supports the Sustainable Development Goals



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

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<https://meet.google.com/hfc-ynib-ghf>

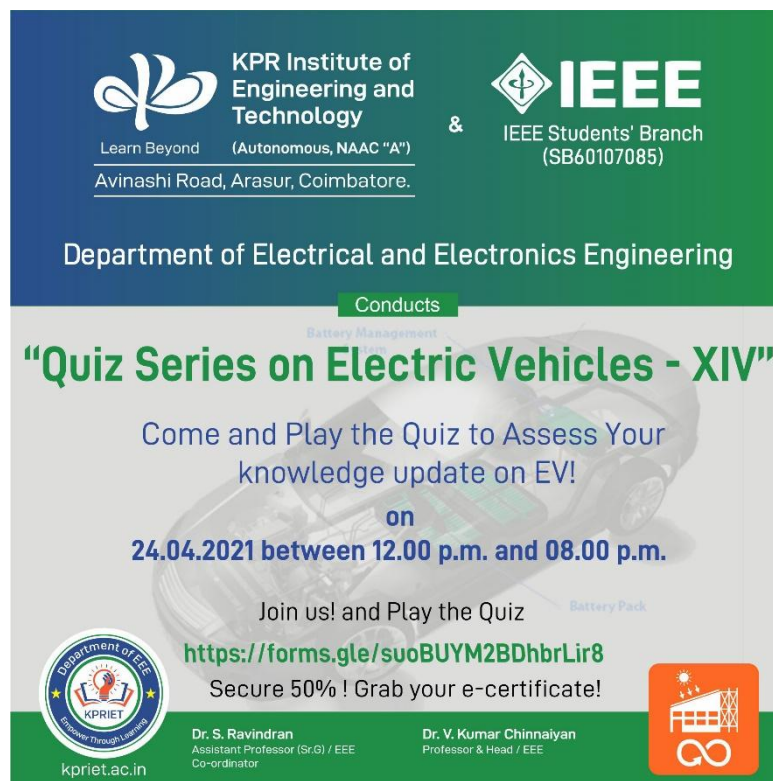
Quiz Series on Electric Vehicles - XIV

The department of Electrical and Electronics Engineering organized a “Quiz Series on Electric Vehicles – XIV” on 24.04.2021 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	:	130
Participants cleared the quiz and received Certificate	:	112
Participants from other Nations, Institutions and Universities	:	70
Participants from KPRIET	:	60



The poster is a green and blue graphic. At the top left is the KPR Institute of Engineering and Technology logo with the tagline 'Learn Beyond' and 'Autonomous, NAAC "A"'. At the top 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 - XIV' in large green letters. Below the title is the text 'Come and Play the Quiz to Assess Your knowledge update on EV!' and 'on 24.04.2021 between 12.00 p.m. and 08.00 p.m.'. There is a background image of an electric car. Below the date is 'Join us! and Play the Quiz' and the URL 'https://forms.gle/suoBUYM2BDhbrLir8'. At the bottom left is the KPRIET logo and 'kpriet.ac.in'. At the bottom center are the names and titles of Dr. S. Ravindran and Dr. V. Kumar Chinnaiyan. At the bottom right is an orange icon of a building with a power symbol and a refresh symbol.

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Department of Electrical and Electronics Engineering
Conducts

"Quiz Series on Electric Vehicles - XIV"

Come and Play the Quiz to Assess Your knowledge update on EV!
on
24.04.2021 between 12.00 p.m. and 08.00 p.m.

Join us! and Play the Quiz

<https://forms.gle/suoBUYM2BDhbrLir8>
Secure 50% ! Grab your e-certificate!

Dr. S. Ravindran
Assistant Professor (Sr.G) / EEE
Co-ordinator

Dr. V. Kumar Chinnaiyan
Professor & Head / EEE

kpriet.ac.in

National Level Conference on Innovations and Advancements in Electrical Sciences

The department of Electrical and Electronics Engineering organized Sixth National Conference on Innovations and Advancements in Electrical Sciences (NCIAES'21) on 26/04/2021 in Association with Indian Society for Technical Education (ISTE), IEEE Madras Section, The Institution of Engineers (India) IE(I) and The Institution of Electronics and Telecommunication Engineers (IETE). The significance of NCIAES'21 is emphasizes on “Greener Energy for future Generation”.

A heart-warming welcome remark was delivered by Prof.S.Vivekandan, Assistant Professor (Sl.G), Department of EEE, and Dr.M.Akila, Principal, felicitated the gathering. Dr.A.M.Natarajan, Chief Executive Officer of KPRIET presided over the function and delivered the presidential address.

Dr.V.Kumar Chinnaiyan , Professor and Head, Department of EEE presented a brief report about the conference and the conference accomplishment on recent trends in the field of Electrical, Electronics, Communication and Computer Science Engineering. Out of 100 papers, 53 papers were selected for the presentation after a peer review by the technical committee. The delegates presented the ideas in the respective theme and the conference is concluded with vote of thanks delivered by Prof.G.Saravanan.

The screenshot shows a Google Meet interface with a presentation slide titled "Machine Learning Framework". The slide content includes a flowchart with the following steps: "Training Data" leads to "Model (W, b)", which leads to "Prediction". A feedback loop from "Prediction" goes to "Test & Update W, b", which then feeds back into "Model (W, b)".

The Meet interface shows a "REC" indicator and "Shubham Kharat is presenting". A list of participants is visible on the right, including D SATHISHKUMAR KPR, R REVATHI KPR, and Shubham Kharat. Meeting controls like "Raise hand" and "Turn on captions" are at the bottom.

Faculty Members Journal Publications

1. **Baranilingesan, I.**, ‘Optimization algorithm based Elman neural network controller for continuous stirred tank reactor process model’, Current Science, Vol. 120, No. 8, pp.1324, 2021.
2. Jayalakshmi, N.Y., Shankar, R., Subramaniam, U., **Baranilingesan, I.**, Stalin, A.K.B., Rahim, R. and Ghosh, A., “Novel Multi-Time Scale Deep Learning Algorithm for Solar Irradiance Forecasting”, Energies, Vol. 14, No. 9, pp.2404, 2021.

Patent Publications:

1. Vivekanandhan S., An Accident Prediction System for Electric Vehicle using AI.
2. Dinesh C., Sensing and Forecasting Crowd Distribution in Smart Cities using IoT

List of Eminent Academicians/Scientists Visit

S.No.	Name and Designation	Organization
1	Er.Mohammed Akmal, Manager – Customer Service	Siemens, Coimbatore

Student Placement Details

S.No.	Student Name	Organization
1	YUVANESH K.	FIRST ADVANTAGE, BENGALURU
2	MADHUMIDHA J.	FIRST ADVANTAGE, BENGALURU
3	PRAVEEN M.	FIRST ADVANTAGE, BENGALURU
4	SIVAGURU B.	THE PHOTOTODAY, COIMBATORE
5	KIRUTHIC P.	IVY MOBILITY SOLUTIONS LTD, CHENNAI
6	NAVANEETHAN N.	IVY MOBILITY SOLUTIONS LTD, CHENNAI
7	NAVEEN A.	IVY MOBILITY SOLUTIONS LTD, CHENNAI
8	KARTHIKEYAN C.	ACCOLITE, CHENNAI



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upto
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Highlights of the Department

- Average Experience: 10+ Years
- Online Students' Certification: 300+
- Employable Graduates through OBTL
- Student Teacher Ratio: 1:15
- Research Publications: 300+
- Special Interest Group: AI, ML, DL, IoT
- Technical Programs: 344+ Since 2013
- Online Certifications: 100+ NPTEL
- Solar Power Plant: 16 kWp

CONTACT

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