

KPR Institute of Engineering and Technology

(Autonomous) Avinashi Road, Arasur, Coimbatore - 641 407

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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.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.	1. 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

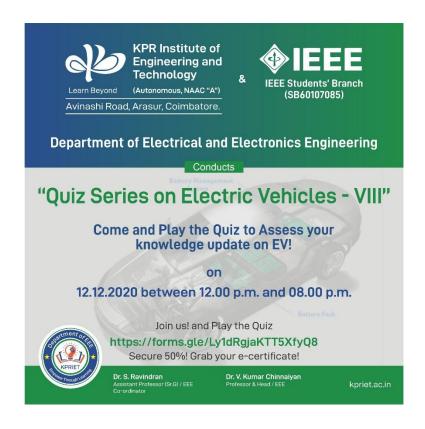
Quiz Series on Electric Vehicles - VIII

The department of Electrical and Electronics Engineering organized a "Quiz Series on Electric Vehicles – VIII" on 12.12.2020 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 : 305
Participants cleared the quiz and received Certificate : 241
Participants from other Nations, Institutions and Universities : 278
Participants from KPRIET : 27



Webinar on Unlocking the Power of IIOT

The department of Electrical and Electronics Engineering organized a webinar on "Unlocking the Power of HOT" on 30.12.2020 for students and faculty community. A heart-warming welcome remark was delivered by Prof.C.Dinesh, Assistant Professor, Department of EEE. Er.Yogeswaran Muralidharan, Managing Director, YM Automation Pvt Ltd, Coimbatore presented the following deliberations

- Benefits of IoT in our daily needs
- Industrial IoT
- IoT will role the world tomorrow
- Industrial Revolution & Technology Revolution
- IoT development boards

Students expressed their gratitude towards the resource person for knowledge which he shared. This webinar is interesting for the students, faculty members and industry person. 68 Participants from EEE department and various industries attended the webinar.



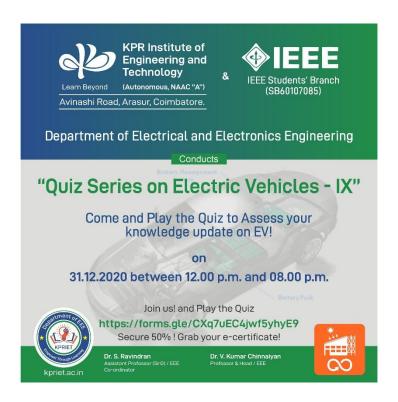
Quiz Series on Electric Vehicles - IX

The department of Electrical and Electronics Engineering organized a "Quiz Series on Electric Vehicles – IX" on 31.12.2020 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 : 237
Participants cleared the quiz and received Certificate : 219
Participants from other Nations, Institutions and Universities : 226
Participants from KPRIET : 11



Faculty Members Designated as Resource Person

- 1. Dr. R. Uthirasamy, Associate Professor was designated as the resource person for the AICTE Sponsored STTP titled "Digitization in Industrial Automation" organized by Kumaraguru College of Technology, Coimbatore on 03/12/2020.
- 2. Dr. R. Uthirasamy, Associate Professor was delivered a lecture on the topic of VFD for an Industrial Automation, Research Opportunities and Challenges of VFD An Overview in AICTE Sponsored STTP titled "Digitization in Industrial Automation" organized by Kumaraguru College of Technology, Coimbatore on 10/12/2020.
- 3. Dr. K. Mohana Sundaram, Professr was designated as the resource person for the AICTE Sponsored Six-Days Online STTP on "Power Utilities and Artificial Intelligence Leveraging the Data" organized by CMR Institute of Technology, Bangalore on 07/12/2020 to 12/12/2020 and 14/12/2020 19/12/2020.
- 4. Ms. R. Revathi, Assistant Professor was designated as the resource person for the webinar on "Energy Conservation Awareness and Opportunities" organized by department of EEE, Amrita College of Engineering and Technology, Nagercoil.

AWARDS AND RECOGNITION

AICTE CII Award

The department of Electrical and Electronics Engineering received AICTE-CII Survey Award for best industry linkage under the category of electrical engineering and allied degree.



Online Best Teacher Award

Dr.V.S.Chandrika, Associate Professor received the best online teaching award for the academic year 2020-21.



Best Teacher and Mentor Award

Dr.R.Uthirasamy, Associate Professor received the best teacher award and Ms.B.Lalitha, AP (Sr.G) received the best mentor award for the academic year 2020-21.



Faculty Members Journal Publications

- 1. **S.Vivekanandan, C.J.Vignesh, V.Kamalkumar, K.Balamurugan,** "An Effective Pulse Width Modulation Technique Analysis for CHB Multilevel Inverters", Advances in Computing, Communication, Automation and Biomedical Technology, IJAICT India Publications, December 2020.
- 2. **V.J.Vijayalakshmi, P.Ravikumar, R.Uthirasamy, J.Karpagam,** "Dual Phase Analysis Based Harmonic Elimination in Multilevel Inverters", Advances in Computing, Communication, Automation and Biomedical Technology, IJAICT India Publications, December 2020.
- 3. **P.Praveena, V.S.Chandrika, I.Baranilingesan, S.Ravindran, C.Pazhanimuthu,** "Demand Side Management for Charging Plug-In Hybrid Electric Vehicles", Advances in Computing, Communication, Automation and Biomedical Technology, IJAICT India Publications, December 2020.
- 4. **A.Gowrishankar, R.Revathi, B.Lalitha, D.Sathish Kumar, R.Sampathkumar,** "Modeling, Simulation and Stability Analysis of Multilevel Inverter Control for Grid Connected Distributed Generation", Advances in Computing, Communication, Automation and Biomedical Technology, IJAICT India Publications, December 2020.
- 5. K.Ramesh, V.S.Chandrika, P.Praveena, C.Pazhanimuthu, S.Ravindran, "Multi-rate Sampling Wavelet Lifting Scheme Based Video Compression with Enhanced Adaptive Rood Search Integral Projections", Advances in Computing, Communication, Automation and Biomedical Technology, IJAICT India Publications, December 2020.
- 6. **D. Sathish Kumar, B.Lalitha,** P. Gajendran, R. Satheesh Kumar, "IoT Based Smart Irrigation System", Advances in Computing, Communication, Automation and Biomedical Technology, IJAICT India Publications, December 2020.
- 7. **C.Dinesh, G.Saravanan, A.Mohamed Ibrahim, V.Kumar Chinnaiyan,** B.Karthik, "Soot Blower Optimization Technique in Recovery Boiler", Advances in Computing, Communication, Automation and Biomedical Technology, IJAICT India Publications, December 2020.
- 8. **I.Barani Lingesan,** C.John De Britto, R.Andrew Faustus, S.Anbarasan, E.Arivukarasu, B.Dixson, "Under Water Wireless Power Transfer System", Advances in Computing, Communication, Automation and Biomedical Technology, IJAICT India Publications, December 2020.
- 9. **C.J.Vignesh, S. Vivekanandan, V.Kamalkumar, K.Balamurugan,** "Optimization of Air Gap for Axial Flux Machine", Advances in Computing, Communication, Automation and Biomedical Technology, IJAICT India Publications, December 2020.

List of Eminent Academicians/Scientists Visited

S.No.	Name and Designation	Organization
1	Er.Yogeswaran Muralidharan Managing Director	YM Automation Pvt Ltd, Coimbatore

Faculty Participation in Conference

S. No.	Faculty Name	Type of the Event	Event Name	Venue	Duration of the Event
1	Dr.V.S.Chandrika	Conference	Multi-rate Sampling Wavelet Lifting Scheme Based Video Compression with Enhanced Adaptive Rood Search Integral Projections	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
2	Dr.V.S.Chandrika	Conference	Demand Side Management for Charging Plug-in Hybrid Electric Vehicles	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
3	Mr.A.Gowrishankar	Conference	Modeling, Simulation and Stability Analysis of Multilevel Inverter Control for Grid Connected Distributed Generation	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020
4	Mr.R.Sampathkumar	Conference	Modeling, Simulation and Stability Analysis of Multilevel Inverter Control for Grid Connected Distributed Generation	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020
5	Mr.D.Sathishkumar	Conference	Modeling, Simulation and Stability Analysis of Multilevel Inverter Control for Grid Connected Distributed Generation	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
6	Mr.D.Sathishkumar	Conference	IoT Based Smart Irrigation System	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
7	Ms.B.Lalitha	Conference	Modeling, Simulation and Stability Analysis of Multilevel Inverter Control for Grid Connected Distributed Generation	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020

8	Ms.R.Revathi	Conference	Modeling, Simulation and Stability Analysis of Multilevel Inverter Control for Grid Connected Distributed Generation	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
9	Dr.C.Pazhanimuthu	Conference	Multi-rate Sampling Wavelet Lifting Scheme Based Video Compression with Enhanced Adaptive Rood Search Integral Projections	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
10	Dr.C.Pazhanimuthu	Conference	Demand Side Management for Charging Plug-in Hybrid Electric Vehicles	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
11	Dr.S.Ravindran	Conference	Multi-rate Sampling Wavelet Lifting Scheme Based Video Compression with Enhanced Adaptive Rood Search Integral Projections	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
12	Dr.S.Ravindran	Conference	Demand Side Management for Charging Plug-in Hybrid Electric Vehicles	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
13	Ms.P.Praveena	Conference	Multi-rate Sampling Wavelet Lifting Scheme Based Video Compression with Enhanced Adaptive Rood Search Integral Projections	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
14	Ms.P.Praveena	Conference	Demand Side Management for Charging Plug-in Hybrid Electric Vehicles	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020
15	Dr.I.Baranilingesan	Conference	Demand Side Management for Charging Plug-in Hybrid Electric Vehicles	KPR Institute of Engineering and Technology	11/12/2020 - 12/12/2020
16	Dr.P.Pandiyan	Conference	A Review of an Early Detection and Quantification of Osteoarthritis Severity in Knee using Machine Learning Technique	Vignan Institute of Technology and Science, Telangana	10/12/2020
17	Dr.P.Pandiyan	Conference	Fish Species Classification using Kernels in Support Vector Machine	KPR Institute of Engineering and Technology	11/12/2020 - 12/12/2020
18	Dr.P.Pandiyan	Conference	Potato Leaf Disease Classification using Transfer Learning based Modified- Xception Model	KPR Institute of Engineering and Technology, Coimbatore	11/12/2020 - 12/12/2020

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.K.Mohana Sundaram	University distinguished lecture	Art of Science in the Time of Virus and Beyond: The Brave New World	SRM University, Chennai	05/12/2020
2	Dr.P.Pandiyan	University distinguished lecture	Art of Science in the Time of Virus and Beyond: The Brave New World	SRM University, Chennai	05/12/2020
3	Dr.V.Kumar Chinnaiyan	STTP	Digital Skill Development for Professionals	Bhivarabai Sawant Institute of Technology and Research, Pune	07/12/2020 - 12/12/2020
4	Dr.J.Karpagam	STTP	Digital Skill Development for Professionals	Bhivarabai Sawant Institute of Technology and Research, Pune	07/12/2020 - 12/12/2020
5	Dr.R.Uthirasamy	STTP	Digital Skill Development for Professionals	Bhivarabai Sawant Institute of Technology and Research, Pune	07/12/2020 - 12/12/2020
6	Ms.V.J.Vijayalakshmi	STTP	Digital Skill Development for Professionals	Bhivarabai Sawant Institute of Technology and Research, Pune	07/12/2020 - 12/12/2020
7	Mr.P.Ravikumar	STTP	Digital Skill Development for Professionals	Bhivarabai Sawant Institute of Technology and Research, Pune	07/12/2020 - 12/12/2020
	Dr.C.Pazhanimuthu	STTP	Recent Challenges & Emerging Opportunities in Electric Vehicles	Pragati Engineering College, Andhra Pradesh	07/12/2020 - 12/12/2020
8	Dr.P.Pandiyan	University distinguished lecture	Pursuit of Excellence: Institution Building	SRM University, Chennai	12/12/2020
9	Mr.S.Vivekanandan	ATAL FDP	Advances in Power Electronics for Hybrid Electric Vehicle - 2020	National Institute of Technology, Andhra Pradesh	11/12/2020 - 15/12/2020
10	Dr.K.Mohana Sundaram	Online Course	MATLAB Onramp	Math Works	15/12/2020

11	Mr.S.Vivekanandan	Webinar	Science Direct: Read Quality Publish Quality	KPR Institute of Engineering and Technology, Coimbatore	18/12/2020
12	Mr.G.Saravanan	Webinar	Science Direct: Read Quality Publish Quality	KPR Institute of Engineering and Technology, Coimbatore	18/12/2020
13	Dr.C.Pazhanimuthu	FDP	Project Management	IIT-PALS	20/12/2020
14	Mr.S.Vivekanandan	FDP	Moodle Learning Management System	Anna University, Chennai	15/12/2020 - 31/12/2020

Students Participation in Workshop/Seminar/Quiz/Paper Presentation

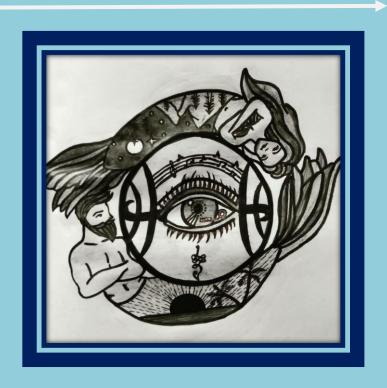
S. No	Student Name	Year	Event Name	Venue	Duration of the Event
1	Kavipriya R.	II	Quiz	Sri Ramakrishna College of Arts and Science,	03/12/2020
2	Balaji P.A.	III	Quiz	Masters Academy	13/12/2020
3	Boobalan P.	III	Quiz	Masters Academy	13/12/2020
4	Kiruthic P.	III	Quiz	Masters Academy	13/12/2020
5	Bharathwaj N.	III	Coding Challenge	Newton Coding School, Bangalore	23/12/2020
6	Bhuvaneshwaran A.	III	Coding Challenge	Newton Coding School, Bangalore	23/12/2020
7	Gokul D.	III	Coding challenge	Newton Coding School, Bangalore	23/12/2020
8	Kiruthic P.	III	Coding Challenge	Newton Coding School, Bangalore	23/12/2020
9	Bhuvaneshwaran A.	III	Webinar	Inventory Management HP life	23/12/2020

Placement Details

S.No.	Student Name	Organization
1	BHAVANA S.	NET CON TECHNOLOGIES
2	DINESH S.	COGNIZANT TECHNOLOGY SOLUTIONS
3	JANANI K.	COGNIZANT TECHNOLOGY SOLUTIONS
4	SUMAN SIDDHARTH S.	COGNIZANT TECHNOLOGY SOLUTIONS
5	MUKESH M.	COGNIZANT TECHNOLOGY SOLUTIONS
6	SIVANANDHAN K.	KPR SUGAR MILLS
7	SOWNDRAPANDIYAN M.	KPR SUGAR MILLS
8	LOKESH M.	KPR CORPORATE



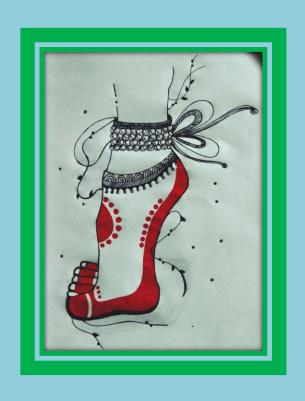
Student's Corner



ART GALLERY



Student's Corner



ART GALLERY



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