



**KPR** Institute of Engineering  
and Technology

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407



**Department of Electronics and Communication Engineering**  
(Accredited by NBA)

**NEWSLETTER- FEBRUARY 2021 ISSUE**



## **EDITORIAL BOARD**

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## ➤ **Vision**

To be a department of repute for learning and research with state-of-the-art facilities to enable the students to succeed in globally competitive environment

## ➤ **Mission**

- To impart knowledge and skill based education with competent faculty striving for academic excellence
- To instill research centres in the field that industry needs, by collaborating with organizations of repute
- To provide ethical and value based education by promoting activities addressing the societal needs and facilitates lifelong learning

## ➤ **Programme Educational Objectives**

- **PEO 1:** Graduates will possess an adequate knowledge and have successful technical career in Electronics and Communication Engineering or related fields
- **PEO 2:** Graduates will possess leadership qualities and demonstrate professional and ethical values
- **PEO 3:** Graduates will continue their life-long professional development through higher education or entrepreneurship

## EVENT ORGANISED

- The department of ECE in association with Centre for IoT organized a value added course on IoT Hardware Assembly (Phase-I) from 01.02.2021 to 05.02.2021 as a part of the skill development service to the student community. It is a good initiative for each and every student to enrich their knowledge in Internet of Things era. This value added course started with introduction to Arduino IDE and sensors with Arduino for IoT applications. Students were exposed with different concepts such as structures, variables, constant, string manipulations and operators, functions, reading a data from sensors and interfacing of sensors with Arduino. Students have done mini projects related to societal needs at the end of the course. Totally 34 second year students of ECE department participated in this value added course and this course was organized by the ECE faculty team.



The poster features logos for KPR Institute of Engineering and Technology, HETTINGER INNOVATION CENTER, and KPR. The text reads: "Department of Electronics and Communication Engineering in association with Center for IoT Organizes a Value Added Course on IoT Hardware Assembly (Phase I) From 1<sup>st</sup> February to 5<sup>th</sup> February 2021".

**Resource Persons:**

 <b>Dr. V. Venkatesh</b> Assistant Professor IoT's Institute of Engineering and Technology Coimbatore	 <b>N.K. Saravanan</b> Assistant Professor IoT's Institute of Engineering and Technology Coimbatore
 <b>Dr. K. Rajasekar</b> Assistant Professor IoT's Institute of Engineering and Technology Coimbatore	 <b>Mr. K. Subramanian</b> Assistant Professor IoT's Institute of Engineering and Technology Coimbatore
 <b>Dr. S. Kirubakaran</b> Assistant Professor IoT's Institute of Engineering and Technology Coimbatore	 <b>Mr. G. Pradeep Kumar</b> Assistant Professor IoT's Institute of Engineering and Technology Coimbatore

Session Time: 09:00 AM to 04:00 PM

**Inventor:** Dr. M. Kothirvelu  
**Co-ventor:** Dr. K. Kalirajan, Dr. S. Kirubakaran

kprnet.ac.in  
#KPRIET #KPRIETonline



- The Department of Electronics and Communication Engineering, IETE students forum and ECE department students association- SPARTRANZ of KPR Institute of Engineering and Technology organized a webinar on “Recent Trends in PCB technology and its Job opportunities” on 03.02.2021. The resource person was Mr. Prakash Subramaniam, Team Manger-System Engineering, Pactron India (P) Limited, Coimbatore. Participants were interactive throughout the session and could understand the latest techniques in PCB manufacturing and soft skills required for PCB design industry.

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

**INSTITUTION'S INNOVATION COUNCIL**  
Ministry of HRD (MHRD)

**IETE**

**SPARTRANZ**

**Department of Electronics and Communication Engineering**  
**IETE Students Forum & Student Association - SPARTRANZ**  
Organize a webinar on

**Recent Trends in PCB Technology & its Job Opportunities**

**Resource Person**



**Mr. Prakash Subramaniam**  
Team Manager - System Engineering,  
Pactron India (P) Limited,  
Coimbatore.

Date: 03.02.2021  
Time: 02:00 PM  
to  
03:30 PM

<https://meet.google.com/wdz-bmii-jwu>

**Convenor**  
Dr. M. Kathirvelu, Professor & Head/ECE

**Organizers**  
Dr. K. Murugan, AP (Sr.G)/ECE  
Mr. K. Saravanan, AP (Sr.G)/ECE  
#KPRIET  
#eceKPRIET

[kpriet.ac.in](http://kpriet.ac.in)  
@KPRIETonline

We support the Sustainable Development Goals

- A webinar on “Mission Explore” which is an awareness programme on various contests of national importance was organised by department of ECE, KPRIET. The resource person for the webinar was Mr. S. Satheesh Kumar, Assistant Professor, Department of ECE, KPRIET. Around 120 students and 20 faculty members joined the event.

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Learn Beyond | Autonomous, NAAC "A"  
Avinashi Road, Arasur, Coimbatore.

**INSTITUTION'S INNOVATION COUNCIL**  
Ministry of HRD (MHRD)

**IETE**

**SPARTRANZ**

**Department of Electronics and Communication Engineering**  
Organizes a webinar on

**MISSION EXPLORE**  
An awareness programme on various contests of  
National importance

**Resource Person**



**Mr. S. Satheesh Kumar M.E., AMIETE., (Ph.D.)**  
Assistant Professor,  
Department of ECE,  
KPRIET, Coimbatore.

Date: 06.02.2021  
Time: 10:00 AM  
to  
11:00 AM

<https://meet.google.com/exr-bmkr-hbq>

**Convenor**  
Dr. M. Kathirvelu, Professor & Head/ECE

**Organizers**  
Mr. G. Pradeepkumar, AP (Sr.G)/ECE  
Ms. M. D. Saranya, AP/ECE  
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- The Department of Electronics and Communication Engineering and Career Advancement Cell (CAC) of KPR Institute of Engineering and Technology organized a webinar on “How to crack bank examinations in an easy way” on 06.02.2021. The program was arranged for final year and pre-final year ECE students who are interested to go for bank jobs through various exam. The resource person was Ms.Mary Sindhya, cleared bank exams in the year 2018 and is currently working as an Associate in United India Insurance Company Ltd., Coimbatore. The webinar exposed the participants to know about the importance of government jobs and the related exams to start preparation. The resource person briefly discussed about the opportunities available after graduating from an institution.

KPR Institute of Engineering and Technology  
 INSTITUTIONS INNOVATION COUNCIL  
 IETE Students Forum

**Department of Electronics and Communication Engineering**  
 In association with  
**Career Advancement Cell and IETE Students Forum**  
 Organizes a webinar on

**How to crack bank examinations in an easy way**

**Resource Person**  
  
**Ms. N. Mary Sindhya**  
 Associate, United India Insurance Company Ltd., Coimbatore.

Date: 08.02.2021  
 Time: 02:30 PM to 03:30 PM

<https://meet.google.com/jyy-pmfx-shh>

**Convenor:**  
 Dr. M. Kathirvelu, Professor & Head/ECE  
 kpriet.ac.in  
 @KPRIETonline

**Organizers:**  
 Mr. V. Chandrasekar, AP/ECE  
 Ms. S. Gunanandhini, AP/ECE  
 #KPRIET  
 #eceKPRIET

We support the Sustainable Development Goals

- The Department of ECE organized a seminar on “Cyber Security for safe and secure online activities” on 13.02.2021(Saturday).Dr.M.Kathirvelu, Professor and Head/ECE welcomed Dr.V.Manikandan, TLC, CIT for seminar session. The session started by 10:30 AM with 80 registered participants from third year ECE. Dr.V.Manikandan briefed about the importance of online behavior of an individual in this digital era, and methods to safeguard themselves from cyber attackers.

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

**Department of Electronics and Communication Engineering**

Organizes a seminar on  
**Cybersecurity for safe and secure online activities**

**Resource Persons**

**Dr.V.Manikandan**  
Project Coordinator  
CIT, T.O.  
Coimbatore.

**Mr.Rajshekar Murthy**  
Director of ISAC,  
T.M.S.

**Mr.Kottaram V Ramesh**  
Cyber Security Consultant and  
Chief Guest, Officer of SkillsDC,  
Chennai.

**Convener**  
Dr.M.Kathirvelu,  
Professor & Head/ECE

**Organizers**  
Dr.N.Rajanitharan,  
AsP/ECE  
Mr.K.Saravanan,  
AsP/ECE

**Date:** 13.02.2021  
**Time:** 10.30 AM to 12.00 Noon  
**Venue:** Itham Hall

**8** **Supports our** **Sustainable** **Development** **Goals**

**We support the Sustainable Development Goals**

**/KPRIETonline** **kpriet.ac.in**

- The Department of ECE organized a webinar on “Recent Trends in Industrial IoT and its applications” on 13.12.2021 in association with IETE student forum. Mr.P.Kumaravel, Technical CEO, VACT Technologies, Coimbatore was the resource persons in virtual mode.

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

**Department of Electronics and Communication Engineering**

In association with  
**IETE Students Forum**  
Organizes a webinar on  
**Recent Trends in Industrial IoT and its Applications**

**Convener**  
Dr.M.Kathirvelu,  
Professor & Head/ECE

**Organizers**  
Dr.D.Venugopal,  
Professor/ECE  
Dr.K.Kalirajan,  
AsP/ECE

**Resource Person**

**Mr.P.Kumaravel**  
Technical CEO,  
VACT Technologies,  
Coimbatore.

**Date:** 13.02.2021  
**Time:** 11.00 AM to 12.30 PM

**https://meet.google.com/zig-tqir-fsi**

**9** **Supports our** **Sustainable** **Development** **Goals**

**We support the Sustainable Development Goals**

**/KPRIETonline** **kpriet.ac.in**

- The Department of Electronics and Communication Engineering organized a webinar on “Industry IoT – Architecture, Design and Challenges”. The main aim of the webinar was to make the students aware of Internet of Things in Industrial world. Prof.K.Jayaraman gave a brief presentation on the concepts and also educated about various techniques used in industry with more real time applications.

**KPR Institute of Engineering and Technology**  
Learn Beyond! | Autonomy, INAC '18  
Avinashi Road, Arasur, Coimbatore.

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of IIT release)

**IETE**

**United Electronics**  
**JET**

**Department of Electronics and Communication Engineering**  
**Organizes a webinar on**  
**Industrial IoT - Architecture, Design and Challenges**

**Date**  
27-02-2021  
**Time**  
10.00AM

**Resource person**  
**Prof. K. Jayaraman**  
Director - Industry Academic Relationship

[meet.google.com/ksd-frey-ebi](https://meet.google.com/ksd-frey-ebi)

**Co-ordinator**  
**Dr.M.Kathirvelu**  
HOD/EC

**Co-ordinators**  
**Dr.D.Venugopal** PHD/EC  
**Ms.A.Reethika** M/SC/EC

**We support the Sustainable Development Goals**

## FACULTY PUBLICATIONS

- Mr. S.P Cowsigan and D.Saraswady, “Substrate integrated waveguide cavity backed antenna for IoT applications”, Journal of Ambient Intelligence and Humanized Computing, ISSN: 1868-5145,13 February 2021. (SCIE)
- Mr.S.Satheesh kumar,R Sowmya, B.Maruthi Shankar, L Lingaraj, S.A Sivakumar, “Analysis of Connected Word Recognition systems using Levenberg Marquardt Algorithm for cockpit control in unmanned aircrafts”, Materials Today Proceedings-Elsevier, ISSN: 2214-7853,24 February 2021.(SCOPUS)



## FACULTY PATENT PUBLICATIONS

S. No.	Name of the Applicant/Inventor	Title of the Project/Invention	Application No.	Date of Publication	Current Status
1	Dr.G.Dhivyasri Ms.S.Gunanandhini Mr.M.Manikandan Ms.NA.Logeshwari Mr.M.Praveen Mr.N.Karthi Ms.A.C.Nithia shree Ms.M.Manasa Mr.S.Karthick Mr.K.Vinothkumar	Lip visualizing mask with air vent for deaf people	202141005619	19-02-2021	Published

## FACULTY AS RESOURCE SPEAKER

- Dr.K.Kalirajan, Associate Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a online workshop on “Signal and image processing using MATLAB” conducted by Vevekanandha College of Engineering For Women, Trichengode on 27-02-2021.



- Dr.N.Rajesh kumar, Associate Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a online Event on “Carrer Development” conducted by Rotract Club of KPRIET, Tirupur on 27-02-2021.



- Mr.K.Saravanan, Assistant Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a online Value Added Course on “Design and Implementation of embedded Systems using Arduino” conducted by Vellalar College of Engineering and Technology, Erode on 16-02-2021.
- Mr.K.Siddharthraju, Assistant Professor (Sr.G), Department of ECE, KPRIET was designated as resource person for AICTE-ISTE sponsored workshop on “Internet of Things using Arduino and Raspberry Pi-Phase II” conducted by GRG Polytechnic College, Coimbatore. He delivered a lecture in the topic “IoT in Healthcare” on 24.02.2021.

## FACULTY PARTICIPATION

<b>Name of the Faculty</b>	<b>Title of FDP/STTP/OFPD</b>	<b>Organization Name</b>	<b>Start Date</b>	<b>End Date</b>
Dr.D.Venugopal	FDP on IoT	NITTTR Chennai	01-02-2021	05-02-2021
Ms.M.D.Saranya	Internet of Things (IoT) using Arduino & Raspberry PI	AICTE ISTE	09.02.2021	15.02.2021
Ms.S.Chandraprabha	Electric vehicles	KPR Institute of Engineering and Technology	08.02.2021	13.02.2021

## PLACEMENT DETAILS

<b>S.No</b>	<b>Name of the Student</b>	<b>Name of the Company</b>
1	Anand A V	Ensuranzz
2	Arun Kumar R	Ensuranzz
3	Bharathikannan K	Ensuranzz
4	Gopika Shree . S	Ensuranzz
5	Harish S	Ensuranzz
6	Rakeshraj J	Ensuranzz
7	Sandhiya M	Ensuranzz
8	Swathi S	Ensuranzz
9	Swathi Lakshmi B	Ensuranzz
10	Sarvinprabhu R	LPT
11	Sathish Kumar R	LPT
12	Sharan K	LPT
13	Archana E	Endeavourtronics
14	Jamuna R	Endeavourtronics
15	Gokulram R	LECS
16	Vishnu K	LECS

17	Tamilkavi G	Easy Design
18	Koushik P	Easy Design
19	Anto Mamman Shane S	Ensurance Easy Design

**Total Number of students Placed: 77**

**Total Number of Offers: 98**

**Total Number of Companies Visited:38**

## **ACHIEVEMENTS**

### **STUDENT ACHIEVEMENT**

- Mr.K.Rakesh Kumar of Final ECE won gold medal in Tamil Nadu State Traditional Wrestling Tournament held on 06th to 08th February 2021.
- Mr. K. Darwin Balaji of I ECE A won 1st place in Peace Shuttle Badminton Tournament.
- A project titled “Organic LED Farming using AI for Self Sustainability during post Covid-19” was shortlisted for the next level in the AICTE-CHHATRA VISWAKARMA AWARD.
- 6 teams from ECE department got shortlisted for the next level in the Toyathon 2021 challenge.

### **FACULTY ACHIEVEMENT**

- Mr.K.Siddharthraju, Assistant Professor (Sr.G), Department of ECE, KPRIET, evaluated the projects in Innovation through Design Thinking course offered by Taylor’s University.

## **IIPC ACTIVITIES**

### **COMPANIES VISITED FOR CONSULTANCY/ STUDENT INTERNSHIP IN FEBRUARY 2021**

- Tetro Electronics
- ZF Wind Power
- SR Systems
- New Qbitronics
- Wireline Solutions
- Kondaas Automation
- Enthu Technology Solutions India Pvt Ltd
- Lyle Technologies
- Fullfil Electronics Pvt. Ltd.
- Endeavourtronics



- Vasantha Advanced Systems
- Sai Incubation Centre
- Peps Industries

### **MoU**

- The department of ECE has signed MoU with Enthu Technology Solutions India Pvt. Ltd. on 25.02.2021. Various activities like internship, placement, guest lecture were planned in lieu of signing MoU.



### **CONSULTANCY**

Two consultancies have been started in associated with SR systems and Enthu Technologies.

### **PLACEMENT**

8 students availed placement cum internship at Lakshmi Electrical Control Systems and Lakshmi Precision Tool through IIPC.