



KPR Institute of Engineering
and Technology

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407



Department of Electronics and Communication Engineering
(Accredited by NBA)

NEWSLETTER- JULY 2021 ISSUE



EDITORIAL BOARD

➤ **Editorial Director**

Dr.M.Kathirvelu
Professor & Head

➤ **Executive Editor**

Ms.R.Aswatha
Assistant Professor

➤ **Student Editors**

Ms.R.Lakshana - II ECE

Ms.P.Kavya - II ECE

Mr.R.Selvam - III ECE

Ms.S.Sharumathi - III ECE

Mr.E.Karthikeyan - IV ECE

Ms.M.Indu Darshini - IV ECE

➤ **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 resource person is L V Kedharnath, he is a Field Application Engineer at Entuple Technologies based out of Bangalore, India. He is responsible for consultation for customers across India from academic sector. He was actively involved in all activities supporting Verilog and Physical Design Flow work groups. He Carries 2 years of training experience with core expertise in Physical design and verification. He contributed in developing learning solutions in the scope of RTL Design, Physical Design and more as subject matter expert. He holds B.Tech (Bachelor of Technology) in Electronics and Communication stream from MLR Institute of Technology, Hyderabad. The Department of Electronics and Communication Engineering, KPR Institute of Engineering and Technology organized a technical training program on Semi-Custom design using Cadence. The entire technical training content are Power estimation, Speed estimation, Area optimization and delay estimation of various combinational circuits. And also discussed about estimation of resistance, load capacitance, parasitic delay of CMOS circuits.

The poster is for a technical training program. At the top, it features logos for KPR Institute of Engineering and Technology (with 'Learn Beyond' tagline), the Department of Electronics and Communication Engineering, and IETE. Below the logos, it states 'In association with ISTE Faculty Chapter Organizes a technical training on Semi Custom design using Cadence'. The resource person is identified as Mr. L.V. Kedharnath, a Field Application Engineer at Entuple Technologies, Bangalore. The training date is 16.07.2021, from 10:00 AM to 04:00 PM, with a meeting link: <https://meet.google.com/ugb-gqkf-sic>. The convenors are Dr. M. Kathirvelu (Professor & Head/ECE) and the coordinators are Dr. J. Muralidharan (Asst/PECE) and Mr. K. Vishvasaravanabharathi (Asst/PECE). The poster also includes logos for ISO 9001:2015, ISO 14001:2015, and ISO 27001:2015.

- The Department of Electronics and Communication Engineering and centre of excellence for IoT of KPR Institute of Engineering and Technology organized an inter department FDP on “Internet of Things and LoRA” on 19.07.2021. The resource persons are Dr. S. Kirubakaran, AP (Sl.G)/ECE, Mr.G.K.Jakir Hussain, AP (Sl.G)/ECE, Mr.K.Saravanan, AP (Sr.G)/ECE KPRIET, Coimbatore. The FDP started with the introduction to IoT and its applications on Energy optimization, Smart Home, Automotive and Medical domain. The experts handled hands-on training with sensors like ultrasonic sensor, temperature and humidity sensors, Arduino programming-interfacing and configuration of sensors with Arduino software.



- The Department of Electronics and Communication Engineering, IETE students forum, Office of Alumni relations and department students association- SPARTRANZ of KPR Institute of Engineering and Technology organized a webinar on “Next Generation E automobile” on 19.07.2021. The resource person is Mr. Shrihariprasath Basuvaiyan, Embedded Developer, UST Global, Coimbatore.



- Mr. AnandMukhopadhyay is an Education Customer Success Technical Evangelist at MathWorks India. His role is to work with the educators and students across India for effective use of MATLAB and Simulink in their curriculum and research. He has interest in addressing applications involving biomedical, acoustics and computer vision using machine learning and deep learning methods. Prior to joining

MathWorks he worked on energy efficient architectures for neuromorphic computing applications during his Ph.D. at Indian Institute of Technology Kharagpur. He has a Master's in the specialization of VLSI Design and Embedded Systems from the National Institute of Technology Rourkela and a Bachelor's in Electronics and Communication Engineering from Techno India College of Technology, Kolkata.

The poster is for a webinar titled "MATLAB Grader" organized by the IETE Students Forum. It features the logos of KPR Institute of Engineering and Technology, Department of Electronics and Communication Engineering, and IETE. The resource person is Dr. Anand Mukhopadhyay, Education Customer Success at Mathworks. The convener is Dr. M. Kathirvelu, Professor & Head/ECE. The coordinators are Mr. G. K. Jakir Hussain and Dr. S. Kirubakaran, both Assistant Professors (SI.G)/ECE. The webinar is scheduled for 22.07.2021 from 12.30 PM to 01.30 PM. The registration link is <https://bit.ly/2xTMO4n>. The poster also includes a QR code and a small image of a person.

- The resource person is L V Kedharnath, he is a Field Application Engineer at Entuple Technologies based out of Bangalore, India. He is responsible for consultation for customers across India from academic sector. He was actively involved in all activities supporting Verilog and Physical Design Flow work groups. He Carries 2 years of training experience with core expertise in Physical design and verification. He contributed in developing learning solutions in the scope of RTL Design, Physical Design and more as subject matter expert. He holds B.Tech (Bachelor of Technology) in Electronics and Communication stream from MLR Institute of Technology, Hyderabad. The Department of Electronics and Communication Engineering, KPR Institute of Engineering and Technology organized a technical training program on Full-Custom design using Cadence. The entire technical training content are Power estimation, Delay estimation, Floor planning and Area estimation of various combinational circuits in full custom mode. Also discussed on fault detection and diagnosis of sequential circuits.

KPR Institute of Engineering and Technology
Learn Beyond | Institution NAAC 'A'

Department of Electronics and Communication Engineering
Accredited by NBA

ISTE Faculty Chapter and Continuing Education Programme

Organizes a technical training on Full Custom design using Cadence

Resource Person

Mr. L.V. Kedharnath
Field Application Engineer
Enthu Technology Solutions

Date : 23.07.2021
Time : 02:00 PM to 04:00 PM
<https://meet.google.com/gkf-zic>

Convenors
Dr.M.Kathirvelu,
Professor & Head/ECE

Coordinators
Dr.J.Muralidharan,
AsP/ECE
Mr.K.Vikramakrishnanabharathi,
AP/PCF

- Department of Electronics and Communication Engineering in association with IIPC organized webinar on “Introduction to LoRaWAN and its architecture” on 28.07.2021. The program is targeted for first year ECE students. The resource persons is Mr.G.Gowtham Raj, Technical Manager, Enthu Technology Solutions.

KPR Institute of Engineering and Technology
Learn Beyond | Institution NAAC 'A'

Department of Electronics and Communication Engineering
Accredited by NBA

In association with IIPC

Organizes a webinar on Introduction to LoRaWAN and its Architecture

Resource Person

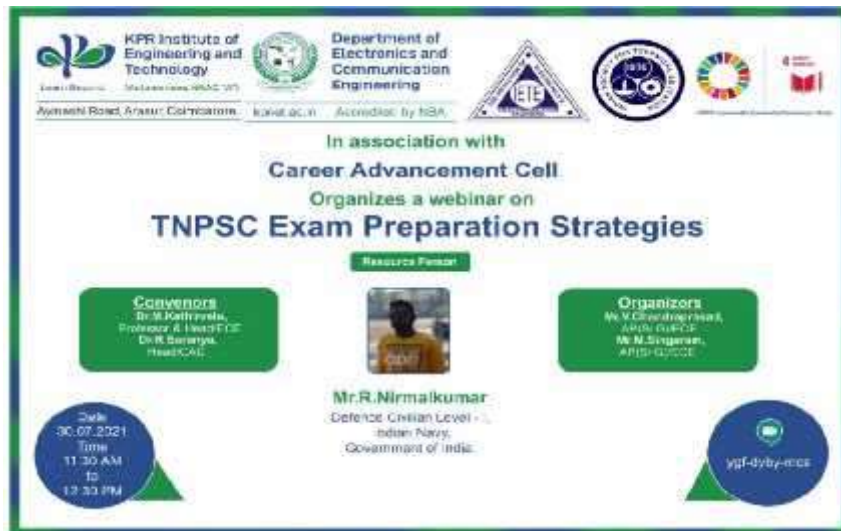
Mr. G. Gowtham Raj
Technical Manager,
Enthu Technology Solutions
India Pvt. Ltd.

Date 28.07.2021
Time 02:00 PM to 03:00 PM
[odp-momx-vhe](https://meet.google.com/odp-momx-vhe)

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

Coordinators: Dr.B.Jaishankar, AsP/ECE
Mr.T.Jagadesh, AP(Sr.G)/ECE

- Career Advancement Cell in association with Department of Electronics and Communication Engineering of KPR Institute of Engineering and Technology conducted a webinar on “TNPSC Exam Preparation Strategies” on 30.07.2021. The main aim of this webinar is to make the students to aware about opportunities through TNPSC exam.



- This event was a technical connection game, where the participants must frame an electronic term by combining the images given as the question. The question will be a combination of 2-6 images where each image describes a specific word. When we combine the words, it would create a meaningful electronic term. After finding out the term the same participant have to speak about the particular electronic term for one minute i.e., the uses, advantages and the application for the corresponding electronic term. The event was conducted on 30th of July 2021 from 2:00 pm to 4:00 pm. Winners were informed through their e-mail ids. Winners and all the participants were given with the E-Certificates. This event was successfully streamed by IETE council of KPRIET.



- The Department of Electronics and Communication Engineering and students association jointly organized a webinar on “Explore new heights in core industry” on 31.07.2021. The resource person is Mr. Lokeswaran, Automotive SW architect, Chennai. The webinar commenced with the

distinguished guest thanking KPRIET for this opportunity and welcoming all participants to this forum. He enumerated a number of “NEW AGE JOBS” for the students to think about as career. He advised the students to “Discover your strengths, your ideal career path and add on as many SKILLS as you can through the process of Learning and Unlearning.” He suggested many programming languages for students to make them ideal before other competent. Several questions were put up by the students, most of which were related to language required to place in the core. To each of these questions, the eloquent speaker provided the most convincing answers.



FACULTY PUBLICATIONS

- Dr.J.Muralidharan,Muthukumar R, Ranjith kumar, M Rubika,“Smart Shopping Trolley System using IoT”, Journal of Physics: Conference Series, ISSN:1742-6596 July2021.(Scopus)
- Dr.J.Muralidharan,Saran S, Tamilkavi G, Thivakar S, Vivin M, “An Automatic Fluid Filling Mechanism Using Delta PLC”, Journal of Physics: Conference Series, ISSN: 1742-6588July 2021.(Scopus)
- Dr.G.Dhivyasri, Miruthula S, Lokeshwari NA, ManickarajVN, Praveen M“ A Review on Unmanned Crop Detection Techniques”, Journal of Physics: Conference Series, ISSN: 1969-2028July 2021.(Scopus)

- Dr.G.Dhivyasri,Keerthana S, Kiruthika B, Lokeshwaran B, Midhunchakkaravarthi B“*A Review on Smart Waste Collection and Disposal System*”, *Journal of Physics: Conference Series*, ISSN: 12029 July 2021.**(Scopus)**
- Mr.T.Jagadesh,Remya V, Jaishankar B, Murugan K, “*Analysis Of Static Power Reduction Techniques In Shift Registers*”, Springer, ISSN:2195-4356July 2021.**(Scopus)**
- Dr.S.M.Ramesh ,Daniel Pradeep M, Dr.B.Gomathy,“*An Optimized PV based Plug-in Hybrid Electric Vehicle Charging Station Using Fuzzy-PI Controller Logic*”, *Studies in Informatics and Control*, ISSN: 1220-1766July 2021.**(SCI)**
- Ms.M.D.Saranya, Pradeep kumar G, Mazher Iqbal, Maruthi Shankar B, Tamilselvan K S “*Maximizing Network Lifetime in WSN Using Ant Colony Algorithm*”, Springer, ISSN: 978-981-16-0965-7July 2021

FACULTY PATENT PUBLICATIONS

S. No.	Name of the Applicant/Inventor	Title of the Project/Invention	Application No.	Date of Publication	Current Status
1	Dr.V.Seethalaksmi Mr.M.Manikandan Dr.K.Sumathi Dr.S.Geetha Mrs.S.Sathyapriya Mr.V.Gurunathan Mr.J.Dhanasekar Dr.V.V.Teresa Mr.A.Shafeek Dr.G.Dhivyasri	Mechanical Movement based extra low power door step in bus for easy access designed for elderly people	202141031413	23/07/2021	Published

FACULTY PARTICIPATION

Name of the Faculty	Title of FDP/STTP/OFPD	Organization Name	Start Date	End Date
Mr.K.Saravanan	Ambassdor Training	MoE Innovation Council& AICTE	30-06-2021	30-07-2021

Dr.M.Kalamani	International Faculty Development Programme On Mathematics And Statistics In Emerging Field	Department of Mathematics, KPRIET	05-07-2021	10-07-2021
Dr.M.Kalamani	Aicte Training And Learning (Atal) Academy Sponsored Faculty Development Program On Deep Learning For Audio And Speech Processing	School of Electronics and Communication, KLE Technological University, Karnataka	26-07-2021	30-07-2021

STUDENT PARTICIPATION

S.No	Event Name	No of students participated
1	Webinar	8
2	Online course	19
3	Workshop	8
4	Value added course	4
5	Contest (Quiz, Coding Contest, club events, etc.)	26
6	Conference paper presentation	1

PLACEMENT DETAILS 01.07.2021 to 31.07.2021

S.No	Name of the Student	Name of the Company
1	Prasanth P	Montbleu-Expleo Solutions
2	Gokul E	Wipro HR services
3	Praveen M	Montbleu-Expleo Solutions
4	Saravana Kumar C	Montbleu-Expleo Solutions
5	Vigneshkumar E	Montbleu-Expleo Solutions

Total Number of students Placed:111
Total Number of Offers: 139
Total Number of Companies Visited:49

IIPC ACTIVITIES

PLACEMENTS

- 2 students got internship cum placement in Sai Incubation Centre with stipend of Rs.10,000 and after graduation the gross salary would be 3LPA.
- 3 students got internship cum placement in RS Power Systems with salary package of 3LPA.

EVENT ORGANIZED

- A webinar on “Introduction to LoRaWAN and its architecture” was conducted on 28/07/2021 for II year students.

INDUSTRY VISIT

- Visited Caliber Interconnect Solutions and ARKTech Solutions Pvt. Ltd. on 15/07/2021 and discussed about internships, MoU and projects.

