



**KPR** Institute of Engineering  
and Technology  
(Autonomous)  
Avinashi Road, Arasur, Coimbatore - 641 407



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

**NEWSLETTER - JULY 2022 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

- Around 200+ participants registered for this International FDP on "Research opportunities for emerging trends in Electronics and Communication Engineering", which includes 3 different countries and 7 different states. Among them 130 participants are short listed based on their interest and priority. The entire session had been conducted through zoom meeting. Attendance and Feedback has been recorded for each and every session.

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**Department of Electronics and Communication Engineering**  
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**5 days International Online FDP on Research Opportunities in Emerging Areas of Electronics and Communication Engineering**

**Resource Persons**

- Dr. Mazhar Hussain Malik**  
Cardiff School of Technologies, Cardiff Metropolitan University, United Kingdom.
- Dr. Ferddie Quiroz Canlas**  
Department of Computing, Muscat College, Sultanate of Oman.
- Dr. Korhan Cengiz**  
College of Information Technology, University of Fujairah, United Arab Emirates.
- Dr. Janaki Sivakumar**  
Department of Computing and IT, Global College of Engineering and Technology, Sultanate of Oman.
- Dr. Mahajan Sagar Bhaskar**  
Department of Communications and Networks Engineering, College of Engineering, Prince Sultan University, Saudi Arabia.

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

**Coordinators**  
**Dr.R.Arun Sekar**  
AsP/ECE  
**Mr.G.Pradeepkumar**  
AP(Sr.G)/ECE

**18.07.2022 to 22.07.2022**

**Registration Link:**  
<https://form.gle/RpP7S5pHUSc7Deic6>

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- A two weeks internship on PCB design and fabrication was conducted from 15.6.2022 to 27.6.2022 at Centre for PCB Design, KPRIET. Around 20 students attended the session. The session was handled by Dr. S Finney Daniel Shadrach, AP (SL.G)/ ECE and Mr. M Ramesh. The software which are covered in the session are Altium and Kicad. Students were familiarized with single layer PCB design in both the software and hardware. During the second week of the training, PCB fabrication was carried out. Students were divided into batches and circuit is assigned for each batch to be designed. The circuit designed during the first week is fabricated in the second week through chemical process. Students got hands-on training and each students individually carried out the fabrication. The certificates were handed over to the participants on submission of fabricated board and assessment.

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**Alumni Lecture Series - 2 on Enhance your career by Data Analytics**

**Resource Person**  
**Mr.N.Abdur Rahman**  
(2018-2022)  
Junior Software Technologist, CES, Chennai.

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

**Coordinators**  
**Mr.T.Venkatesh, AP(Sr.G)/ECE**  
**Mr.T.Shanmugaraja, AP/ECE**

**Date : 20.07.2022**  
**Time : 12.00 NOON to 01.00 PM**

**IV ECE Classroom**

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- The Department of Electronics and Communication Engineering of KPR Institute of Engineering and Technology organized a guest lecture on “Recent Trends in Automotive Electronics” on 30.07.2022. The program is targeted for second year ECE students who are interested in Automotive Electronics. The resource person **Mr. M.P Manickarajan** is a senior electrical performance engineer working in **Volvo cars, Sweden**.

- The event was inaugurated on 25.07.2022 by Dr. M. Kathirvelu, Professor and Head, ECE/KPRIET. Followed by introductory session. The program had 4 Internal Expert key speakers and other key speakers from IIT, IIIT, NIT, Karunya Institute and Industrial experts from Kone Elevators, Power Integrated solutions and Mirafa technologies. Pedagogy for teaching was handled by experts from NITTTR Chennai. Topics like overview of electronics system packaging, issues, chip packages, surface mount technologies and Electrical testing are discussed. An assessment covering the syllabus was conducted at 6 th day of the program. The participants are awarded with certificates on their successful completion of assessments and attendance average.

- The Electronics and Communication Engineering Department has inaugurated the students association "SPARTRANZ'22" on 30.07.2022. The Inaugural function was started at 10.00 AM. Dr.M.Kathirvelu, Professor & Head/ECE has given the welcome address. Mr.R.Senthilkumar, Senior Manager, Plant Engineering and Maintenance, ZF Windpower Coimbatore Pvt Ltd, Coimbatore was the Chief Guest for the function. He has delivered the special address regarding Digitization and

Industry 4.0. Office bearers were introduced by Dr.K.Murugan, Assistant Professor (SI.G)/ ECE. Dr.D.V.Deepakraj of IV ECE was delivered the vote of thanks.



## FUNDING RECEIVED DETAILS

- Mr.S.Satheeshkumar, Assistant Professor (Sr.G), Department of ECE, Dr.M.Kathirvelu, Professor & Head, Dr.J.Muralidharan, Associate Processor, Dr.J.Prasad,Assistant Profeseor (SI.G) Department of ECE, received funding of Rs.12,30,025 from MSME, Government of India. for Projcet propsasl under the title “Modern Electrophoresis device for early detection of sickle cell anemia among the tribal communities in India”.
- Ms.S.Chandraprabha, Assistant Professor, Department of ECE,Mr.D.Ram Nivas D ,Assistant Profeseor (Sr.G) Department of ECE, received funding of Rs.12,30,025 from MSME, Government of India. for Projcet propsasl under the title “Navigation Assistance Tool”.
- Mr.M.Singaram, Assistant Professor (Sr.G), Department of ECE,Mr.Chandra Prasad ,Assistant Profeseor (Sr.G) Department of ECE, received funding of Rs.20,000 from DRDO, for Seminar grant under tiltled “National Seminar on Modern Antenna Design for 5G and Related Applications”.

## FACULTY PUBLICATIONS

- Dr.Maheswar Rajagopal, Mohammad Sarwar Raeen, Anvesh kumar Nella . “Design and Analysis of a miniaturized UWB plasmonic absorder in visible light spectrum”, Optik, Elsevier, ISSN:0030-4026, July 2022. (SCI)

- Dr.R.Arun Sekar , Azees M , Muhammed Islam Satti “An Autonomous Signature-Based Authentication and key Agreement Scheme for Vehicular Ad hoc Networks”, Security and communication Networks, Hindawi , Issue-1,pp. 1-9, ISSN:1939-0114, July 2022. (SCI).
- Dr.R.Arun Sekar, Azees Maria, Fedi Al-Turjman, Chadi Altrjman, Leonardo Mostarda “ABRIS: Anonymous blockchain based revocable and integrity preservation scheme for vehicle to grid network”, Energy reports, Elsevier Vol.1, Issue-8 pp. 9331-9343, ISSN:2352-4847, July 2022. (SCI).

## FACULTY AS RESOURCE SPEAKER

- Dr.M.Kathirvelu, Profesor & Head , Dr.J,Muralidharan, Associate Professor, Mr.S.Satheesh kumar, Assistant Professor (Sr.G), Mr.D.Ram Nivas, Assistant Professor (Sr.G), Department of ECE, KPR Institute of Engineering and Technology delivered a Anna university FDP

<p style="text-align: center;"><b>About KPR Institute of Engineering and Technology</b></p> <p>KPR Institute of Engineering and Technology is an autonomous engineering college established in the year 2009. Coimbatore, Tamil Nadu. KPR IIT is approved by AICTE, New Delhi and affiliated to Anna University, Chennai. Institution is accredited by NAAC with "A" grade and courses are approved by National Board of Accreditation (NBA). The institute has remarkable academic excellence and a significant placement record. The industry-driven institution is certified by DBIR as the Scientific and Industrial Research Organization. KPR IIT Coimbatore offers 8 UG Programs, 4 PG Programs and 6 Ph.D. Programs. The institution also provides hands-on training on life skills through Liberal Arts courses and Foreign Language courses.</p> <p style="text-align: center;"><b>About Department of Electronics and Communication Engineering</b></p> <p>The Department of Electronics and Communication Engineering, started in 2008 and offers one UG program, PG program in VLSI Design and Full time/Part time Doctoral programs. We are accredited by NBA and recognized research centre of Anna University. We have outstanding infrastructure with 10 well established laboratories, three centres of excellence namely (IoT, VLSI and PCB), project laboratory, department library, seminar hall, board room and faculty cabin. Our team comprises of experienced, energetic and dedicated faculty members with 32% Ph.D holders and 40% pursuing Ph.D. Our students bagged 12 university ranks with more than 90% results and excellent placement records providing more than 95% placements consistently from its inception.</p> <p style="text-align: center;"><b>Department of Electronics and Communication Engineering</b></p> <p style="text-align: center;">KPR IIT Coimbatore    Accredited by NBA</p>	<p style="text-align: center;"><b>Electronics Packaging</b></p> <p>Electronic packaging is the design and production of enclosures for electronic devices ranging from individual semiconductor devices up to complete systems such as a mainframe computer. Packaging of an electronic system must consider protection from mechanical damage, cooling, radio frequency noise emission and electrostatic discharge. Product safety standards may dictate particular features of a consumer product.</p> <p style="text-align: center;"><b>Topics Covered</b></p> <p>To introduce and discuss various issues related to the system packaging. The topic includes,</p> <ul style="list-style-type: none"> <li>• Overview of electronic system packaging</li> <li>• Electrical issues in packaging</li> <li>• Chip packages</li> <li>• PCBs, surface mount technology and thermal considerations</li> <li>• Testing</li> </ul> <p style="text-align: center;"><b>Outcome</b></p> <ul style="list-style-type: none"> <li>• To enhance the knowledge and skills in various packaging types used along with the associated thermal, speed, signal and integrity power issues.</li> <li>• Enable design of packages which can withstand higher temperature, vibrations and shock.</li> <li>• Design of PCBs which minimize the EMI and operate at higher frequency.</li> <li>• Analyze the concepts of testing and testing methods</li> <li>• To equip the modern methods of Teaching – Learning Process, based on classical theories of Engineering Education and to inculcate the Professional ethics, values and competencies in Teachers</li> </ul>	<p style="text-align: center;"><b>Online - Six Day FDP on EC 8005 - Electronics Packaging and Testing</b></p> <p style="text-align: center;"><b>[25/07/2022 – 30/07/2022] [6 Days]</b></p> <p style="text-align: center;"><b>REGISTRATION FORM</b></p> <p style="text-align: center;"><b>COORDINATORS</b></p> <p style="text-align: center;"><b>Mr. S. Satheesh Kumar</b> Assistant Professor (Sr.G)/ECE</p> <p style="text-align: center;"><b>Mr. D. Ram Nivas</b> Assistant Professor/ECE</p> <div style="text-align: center;">  <p style="font-size: small;">KPR Institute of Engineering and Technology Coimbatore, Tamil Nadu</p> </div> <p style="text-align: center;">Sponsored by Centre for Faculty Development Anna University Chennai - 25</p> <p style="text-align: center;">Organized by</p> <div style="text-align: center;">  <p style="font-size: x-small;">KPR Institute of Engineering and Technology Coimbatore, Tamil Nadu Avinashi Road, Arapur, Coimbatore.</p> </div>
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- Dr.M.Kalamani, Associate Professor , Department of ECE, KPR Institute of Engineering and Technology delivered a guest lecture on IPR & Patent Drafting , organised by Sri Shanmuga College of Engineering and technology on 13-07-2022.



SRI SHANMUGHA<sup>®</sup>

COLLEGE OF ENGINEERING AND TECHNOLOGY

IMPACT LECTURE SESSION - I

Sponsored by  
MoE's Innovation Cell(MIC), AICTE, New Delhi

Date: 13.07.2022

Google Meet Link

meet.google.com/arj-xccz-dtq



Dr.M.Kalamani  
Associate Professor/ECE  
KPR Institute of Engineering & Technology  
Title: IPR & Patent Drafting  
Time: 11 am to 12.30 Pm



Mrs.E.Shanthini  
Assistant Professor(Sr.G)/ECE  
Sri Ramakrishna Engineering College  
Title: Design Thinking & Innovation Design  
Time: 3 pm to 4.30 pm

Registration Link  
<https://forms.gle/RuZAWFdVJSCfdDoe>

Contact Person  
 Dr.R.Jamuna, IIC - Coordinator  
 8838843261

## FACULTY PARTICIPATION

<b>Name of the Faculty</b>	<b>Title of FDP/STTP/OFDP/Conference</b>	<b>Organization Name</b>	<b>Start Date</b>	<b>End Date</b>
Mr.K.Saravanan	IEEE International Conference on Data science and information system	ICDSIS-2022	30-07-2022	30-07-2022
Dr.M.Kalamani	IoT Internship	MachDatum Pvt Ltd	29-06-2022	05-07-2022
Dr.R.Arun Sekar	EC8005-Electronics Packaging and Testing	KPR Institute of Engineering and Technology, Coimbatore	25-07-2022	30-07-2022
Dr.R.Arun Sekar	Research opportunities in emerging areas of Electronics and Communication Engineering	KPR Institute of Engineering and Technology, Coimbatore	18-07-2022	22-07-2022
Dr.R.Jaikumar	Research Opportunities in emerging areas of Electronics and Communication Engineering	KPR Institute of Engineering and Technology, Coimbatore	18-07-2022	22-07-2022
Dr.V.Seethalakshmi	Research Opportunities In Emerging Areas In Electronics And Communication Engineering	KPR Institute of Engineering and Technology, Coimbatore	18-07-2022	22-07-2022
Mr.T.Venkatesh	Electronics Packaging & Testing	KPR Institute of Engineering and Technology, Coimbatore	25-07-2022	30-07-2022
Ms.M.Supriya	Research Opportunities In Emerging Areas In Electronics And Communication Engineering	KPR Institute of Engineering and Technology, Coimbatore	18-07-2022	22-07-2022



Dr.S.M.Ramesh	EC8005 Electronics Packaging and Testing	KPR Institute of Engineering and Technology, Coimbatore	25-07-2022	30-07-2022
Dr.K.Murugan	Research opportunities in the area of Electronics and Communication Engineering	KPR Institute of Engineering and Technology	18-07-2022	22-07-2022
Mr.K.Saravanan	Research opportunities in emerging areas of Electronics and Communication Engineering	KPR Institute of Engineering and Technology	18-07-2022	22-07-2022
Dr.M.Kalamani	Research Opportunities in Emerging areas of ECE	KPR Institute of Engineering and Technology	18-07-2022	22-07-2022

### STUDENT PARTICIPATION

S.No	Event Name	No of students participated
1	Online course	06
2	workshop	01
3	Contest (Quiz, Coding Contest, club events, etc.)	07
4	Paper presentation	01
5	Internship	189
6	Project Presentation	16
7	NSS, YRC activities	08

### PLACEMENT DETAILS 01.07.2022 to 30.07.2022

S.No	Name of the Student	Name of the Company
1	ASHKKAR SIDHIK B	Aspire Systems
2	KOWSIKAN S	Aspire Systems
3	MOTHILAL.K	Aspire Systems

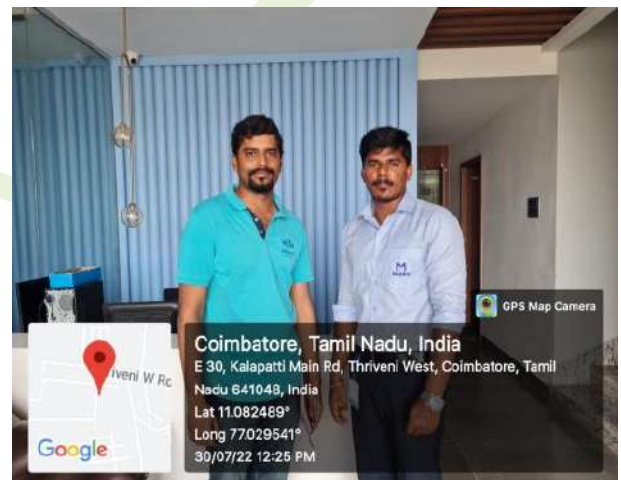
4	MUKESH L	Aspire Systems
5	SURYA M	Aspire Systems
6	HIRUTHIK BOSE G	Advantech
7	NITHISH KUMAR B	Netcon

**Total Number of students Placed:93**  
**Total Number of Offers : 119**  
**Total Number of Companies Visited:16**

## IIPC ACTIVITIES

### INDUSTRY VISITS

- Mr.K.Saravanan and Mr.T.Jagadesh visited Pinesphere Technologies and Vipertech IoT Pvt. Ltd. on 27/07/2022 and discussed about consultancy initiatives.
- Mr.T.Jagadesh visited Magnis Technologies Pvt. Ltd. on 30/07/2022 and discussed about internship opportunities.
- Dr.B.Jaishankar visited Endeavourtronics on 30/07/2022 for product development and launching in



CODISSIA.



## CONSULTANCY ACTIVITIES

- Dr.J.Prasad generated revenue of Rs.85200 for development of drone to Reliable Technosystems India Pvt. Ltd.
- Dr.S.Finney Daniel and team generated revenue of Rs.1180 towards PCB fabrication.

## GUEST LECTURE

- Organized a guest lecture on “Recent Trends in Automotive Electronics” on 30/07/2022 at Thanam Hall with resource person Mr.M.P.Manickarajan, Senior Electrical Performance Engineer, Volvo Cars, Sweden.

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 Organizes a Guest Lecture on  
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**Resource Person**  
  
**Mr.M.P.Manickarajan,**  
 Senior Electrical Performance Engineer  
 Volvo Cars , Sweden

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

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

**INDUSTRY INSTITUTE PARTNERSHIP CELL**

30.07.2022  
 03.00 PM to 04.00 PM  
 Thanam Hall

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