



KPR Institute of Engineering
and Technology

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407



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

NEWSLETTER- AUGUST 2022 ISSUE



EDITORIAL BOARD

➤ **Editorial Director**

Dr.M.Kathirvelu
Professor & Head

➤ **Executive Editor**

Ms.S.Priyadharsini
Assistant Professor (Sr.G)

➤ **Student Editors**

Ms.R.Lakshana - II ECE

Ms.P.Kavya - II ECE

Mr.R.Selvam - III ECE

Ms.S.Sharumathi - III 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 Electronics and Communication Engineering Department Students' Association-SPARTRAN Z organized a guest lecture on "Recent Applications in Automotive Electronics" on 13.08.2022. Mr. Dinesh Ponnuswamy, Software specialist, Bosch Global Software Solutions, Coimbatore was the resource person. He has pointed out the recent applications of automotive electronics. He has also elaborated the use of sensors and actuators.

KPR Institute of Engineering and Technology (Autonomous, NAAC "A")
Department of Electronics and Communication Engineering
Accredited by NBA

Great Place To Work Certified

SPARTRANZ - STUDENTS' ASSOCIATION
Organizes a Guest Lecture on
Recent Applications in Automotive Electronics

Resource Person

Mr. Dinesh Ponnuswamy,
Software Specialist,
Bosch Global
Software Technologies,
Coimbatore.

Faculty Coordinators
Dr.K.Murugan, AsP/ECE
Dr.J.Prasad, AP(Si.G)/ECE

13.08.2022
10.00 AM to 11.00 AM
I ECE B CLASSROOM

eceKPRIET f in t v i KPRIETonline

- Online quiz on Basics of Communication is about the current trends in electronics and communication conducted on 13.08.2022 remotely through online mode. The session started at 10 AM. Totally, 152 participants across the nation were attended this quiz program. The Quiz was coordinated by Dr V.Seethalakshmi, Prof/ECE and Ms.S.Nithya AP(Sr.G)/ECE The participants received e certificate and the program came to an end at 4 pm.

KPR Institute of Engineering and Technology (Autonomous, NAAC "A")
Department of Electronics and Communication Engineering
Accredited by NBA

Great Place To Work Certified

Students' Association
SPARTRANZ'22
Organizes a Quiz
on
BASICS OF COMMUNICATION

A few heart-whole, sincere, and energetic men and women can do more in a year than a mob in a century.
-Swami Vivekananda

PLATFORM:G-FORMS

Scan to participate

<https://forms.gle/NjpYRWtmdYNkg7128>

13/08/22
Link will be opened for only 24 hrs!!

Event coordinators:
Mr. Ajay E-9884303205
Mr. Ashwathkumaran T-9944676272
Mr. Akhil ahamed Z-9566738340

Faculty coordinators:
Dr.Seethalakshmi V - 9848644443
Mrs. Nithya S - 9098197694

E-CERTIFICATE will be provided

kpriet.ac.in f in t v i eceKPRIET

SUSTAINABLE DEVELOPMENT GOALS

- The Department of Electronics and Communication Engineering in association with AICTE, MHRD and Brainovision Solutions India Pvt. Ltd. has organized One week National Level Faculty Development Program (FDP) on "Amazon Web Service (AWS)" from 22.08.2022 to 27.08.2022. Around 137 faculties are participated for this National Level FDP on "Amazon Web Services", which includes 8 different states from our host centre. Participants are being provided the daily meeting / live streaming YouTube link directly from Brainovision. Attendance and Feedback has been recorded for each and every session

KPR Institute of Engineering and Technology
Learn beyond | Autonomous, NAAC 'A'
Avinashi Road, Arasur, Coimbatore. | kpriet.ac.in | Accredited by NBA

Department of Electronics and Communication Engineering
Accredited by NBA

Organizes a One week National Level FDP on
Amazon Web Services

Great Place To Work
Certified
amazon | aws | aws | aws

Chief Guest
Date : 22.08.2022 to 27.08.2022
Time : 06.30 PM to 08.00 PM

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

Coordinators
Dr.D.Selvakumar, AsP/ECE
Mr.Abhishek Sahu, AP(SI.G)/ECE

Registration Code
<https://brainovision.in/FDP-faculty/>

Host College Name:
KPR Institute of Engineering and Technology

Dr.Buddha Chandrashekhar
Chief Coordinator - AICTE

BRAIN O VISION
Brainovision Solutions India Pvt. Ltd.

AICTE
All India Council of Technical Education

Ministry of Education
Government of India

eceKPRIET | f | in | t | y | t | u | b | e | KPRIETonline

- Inau^gural function of the seminar was started at 9.00 am on 22nd August 2022, through online mode (Zoom and G-meet). Dr. M. Kathirvelu, Convener, Professor & HoD, Department of Electronics and Communication Engineering welcomed the gathering and briefed about topics of various sessions of the seminar. Chief guest Dr. K. THIYAGARAJAN, Assistant Professor (Sr.G), PSG College of Technology, Coimbatore, is an eminent researcher in the relevant field delivered the inaugural address. In his inaugural address, he emphasized the importance of this topic and briefed the potential research problems also.

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

Department of Electronics and Communication Engineering
Accredited by NBA

DRDO

IETE

Organizes a DRDO Sponsored Two Days Seminar on
Modern Antennas Design for 5G and its Related Applications

Great Place To Work Certified

Resource Persons

Dr.D.SRIRAM KUMAR
Professor,
Department of ECE,
NIT Trichy.

Dr.S.RAMPRA BHU
Associate Professor,
Department of ECE,
SSN College of Engineering,
Chennai.

Dr.G.JOSEMIN BALA
Professor,
Department of ECE,
Karunya Institute of
Technology and Sciences,
Coimbatore.

Dr.K.THIYAGARAJAN
Assistant Professor(Sr.G),
Department of ECE,
PSG Institute of Technology,
Coimbatore.

Date : 22.08.2022 & 23.08.2022
Time : 10.00 AM to 04.00 PM

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

Coordinators
Mr.M.Singaram, AP(Sr.G)/ECE
Mr.S.P.Cowsigan, AP(Sr.G)/ECE

Registration Code
3FQUdcA23syhfKMJ6

vbv-ybia-djy

eceKPRIET KPRIETonline

- Totally 162 participants have attended the webinar. The resource person elaborated the followings:
- Type of Wearable sensors for Bio medical applications
 - Latest trends in Bio medical engineering
 - Future research directions in bio medical engineering
 - Real time example for wearable sensors
- Future research scopes in wearable sensors for bio medical application

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")

Department of Electronics and Communication Engineering

Great Place To Work Certified

Continuing Education Programme in
Association with
Department of Electronics and Communication Engineering

National Webinar on
Flexible and Wearable Sensors for Bio Medical Applications

Resource Person

Dr Shanmuga Sundar Dhanabalan
Researcher
Functional Materials and Microsystems Research Group
School of Engineering, RMIT University
Melbourne, Victoria 3001, Australia

26 August 2022
 2.00 p.m. to 3.00 p.m.

Convener
Dr.M.Kathirvelu
Prof & Head / ECE

Coordinators
Dr.M.Vasim babu
Head/CEP
Dr.K.B.Gurumoorthy
AsP/ECE

kpriet.ac.in /KPRIETonline

FACULTY PUBLICATIONS

- **Indra, J** , Kandasamy, S. K., Maheswaran, S., Kavitha, K. R., Karthikeyan, D., Sheikdavood, K., Syamala, Y., Srilakshmi, K., Arumugam, C., & Balamoorthy, D. (2022). High-performance graphene oxide/polypyrrole/ziziphus jujuba/prunus dulcis ternary composite electrodes for supercapacitor for sensor applications. *Journal of Nanomaterials*, 2022, 1–10. <https://doi.org/10.1155/2022/9201910> .
- **Jagadesh, T.**, & Sheela Rani, B. (2023). Time Delay estimation in radar system using fuzzy based iterative unscented Kalman filter. *Computer Systems Science and Engineering*, 44(3), 2569–2583. <https://doi.org/10.32604/csse.2023.027239>
- Vajravelu, A., **Tamilselvan, K. S.**, Mahadi, M., Zaki, W. S., Suresh, K. S., & Iyer, G. G. (2022). Development of 3-stage Hybrid Computer Aided Design (3-HCAD) system for multi-modal medical images to identify brain tumor. *International Journal of Health Sciences*, 7576–7590. <https://doi.org/10.53730/ijhs.v6ns6.11392>
- **D. Venugopal** & M. Mohamed Riyaz. (2022). FPGA Implementation on Lossless Image Compression Algorithm Based on LSTM Neural Network. *Journal of Optoelectronics Laser*, 41(8), 530–538. Retrieved from <http://gdzjg.org/index.php/JOL/article/view/957>
- Devaraj, S. A., **Gurumoorthy, K. B.**, Kumar, P., Jacob, W. S., Rosita, P. J., & Ali, T. (2022). Cluster-id-based throughput improvement in cognitive radio networks for 5G and beyond-5G IOT Applications. *Micromachines*, 13(9), 1414. <https://doi.org/10.3390/mi13091414>
- Rangunthar, T., Sahayaraj, K. K., Mary, A. L., Jakir Hussain, G. K., Lakshmi, T. R., & Thiagarajan, R. (2022). Clinical investigation of sensing ailments in brain movement through physiological activity using ML technique. *International Journal of Health Sciences*, 7082–7092. <https://doi.org/10.53730/ijhs.v6ns6.11761>
- **Jaishankar, B.**, Naveen, J., Marimuthu, B., Jayabalan, B., & Mathivanan, M. (2022). A multi-preference integrated algorithm for deep learning based Recommender Framework. *Concurrency and Computation: Practice and Experience*. <https://doi.org/10.1002/cpe.7241>
- Kasiselvanathan, Prasad J, Manikanadan A, Surendhar P, An Efficient Breast Cancer Detection with Ultra wide Band Dielectric Resonator Antenna based Microwave Imaging Technique. *Neuro Quantology*, 2232. <https://www.neuroquantology.com/datacms/articles/20220713052625pmNQ44003%20%20.pdf>

FACULTY AS RESOURCE SPEAKER

- Dr.V.Seethalaskmi, Professor , Dr.K.S.Tamilselvan, Professor , Dr.J.Prasad, Department of ECE, KPR Institute of Engineering and Technology delivered an International conference session chair ,organised by KPR Institute of Engineering and Technology on 18-08-2022.

FACULTY PARTICIPATION

Name of the Faculty	Title of FDP/STTP/OFDP/Conference	Organization Name	Start Date	End Date
Dr. M. Kathirvelu	Research Opportunities in Emerging areas of ECE	KPR Institute of Engineering and Technology	7/25/2022	7/30/2022
Mr.G.Pradeepkumar	EC8005 - Electronics Packaging and Testing	KPR Institute of Engineering and Technology	7/25/2022	7/30/2022
Ms.MD.Saranya	EC8005 - Electronics Packaging and Testing	KPR Institute of Engineering and Technology	7/25/2022	7/30/2022
Dr.R.Arun Sekar	"ICT Tools for Teaching Learning Pedagogy	GMR Institute Of Technology & Sri Sairam Institute Of Technology	8/23/2022	8/27/2022
Ms.S.Priyadharsini	Electronics Packaging and Testing	KPR Institute of Engineering and Technology	7/25/2022	7/30/2022
Dr.J.Muralidharan	Electronics Packaging and Testing	KPR Institute of Engineering and Technology	7/25/2022	7/30/2022
Dr.S.M.Ramesh	Electronics Packaging and Testing	KPR Institute of Engineering and Technology	7/25/2022	7/30/2022

Dr.K.S.Tamilselvan	Amazon Web Services (AWS)	KPR Institute of Engineering and Technology	8/22/2022	8/27/2022
Dr.R.Jaikumar	ICT Tools for Teaching Learning Pedagogy	GMR Institute Of Technology & Sri Sairam Institute Of Technology	8/23/2022	8/27/2022

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

STUDENT ACHIEVEMENT 01.08.2022 to 31.08.2022

S.No	Name of the Student	Year	Title of the Event	Organized by (Name of the college / club)	Prize-Merit Position
1	A.Amarnath	IV- Year	State Level Bodybuilding Tournament	LE LION FACON	II Runner Up
2	P.Balaji	II- Year	Karate	School of Goyu Ryu Karate Do, Udumalpet	III Prize-Bronze Medal
3	Santhoshi.M	II- Year	NCC Parade	Ek Bharat Shreshth Bharat Camp (EBSB)	Represented NCC TN P & AN- Cultural Independence Day Camp held at NCC Parade Ground, Delhi Cantt

4	Godwin Joe S	II- Year	Push-Up	Youth Red Cross, KPRIET, Coimbatore	First Prize
5	Koushik Ram G B	II- Year	Project contest	Solve for Tomorrow organized by SAMSUNG	Qualified for Top 50 and won online study voucher worth Rs.1Lakh
6	Neha Darshini S	II- Year	Poetry Contest	KPR Institute of Engineering and Technology, Coimbatore	Second Prize
7	Akhshai kumar G	II- Year	Project contest	Solve for Tomorrow organized by SAMSUNG	Qualified for Top 50 and won online study voucher worth Rs.1Lakh
8	Lakshmana Kumar M	II- Year	Project contest	Solve for Tomorrow organized by SAMSUNG	Qualified for Top 50 and won online study voucher worth Rs.1Lakh
9	Lalith K	III- Year	Project contest	Solve for Tomorrow organized by SAMSUNG	Qualified for Top 50 and won online study voucher worth Rs.1Lakh
10	Nivedhitha J	II- Year	Elocution	KPR Institute of Engineering and Technology, Coimbatore	Second prize

PLACEMENT DETAILS 01.08.2022 to 30.08.2022

S.No	Name of the Student	Name of the Company
1	VISHNU RAJ S	ERP Roots
2	AMARNATH A	Infyq
3	RAHUL R	Infyq
4	HIRUTHIK BOSE G	Infyq
5	JAWAHAR A	Infyq
6	KANISHKA S	Infyq
7	KASTHURI S	Infyq

8	KAVIYAN T	Infytq
9	KUNCHAM ANVESH	Infytq
10	MANOJKUMAR G	Infytq
11	MONIKA B	Infytq
12	PANDESWARI S	Infytq
13	SAKTHIVEL S	Infytq
14	SREE SIVA GURU A R	Infytq
15	SURVESH HARI S	Infytq
16	YAMINI.K	Infytq
17	AADHITHYA V	Infytq
18	ANUVAMSHA S A	Infytq
19	DARSHINI R	Infytq
20	DEEPAK K	Infytq
21	DEEPIKA MM	Infytq
22	HARIHARAN A	Infytq
23	HARSSHINI S	Infytq
24	MATHU SHREE P	Infytq
25	Pavithra S	Infytq
26	SANJAY V N	Infytq
27	THARANI S	Infytq
28	KEMYA J	Infytq
29	RITHIK S	Infytq
30	BARATH S	AMI
31	MANASA KRISHNAN K	AMI
32	MOHAMMED ASIFJOHN A	AMI
33	SANDEEP KUMAR S	AMI
34	Sindhuja L P	AMI
35	VAIDEESH N	AMI
36	VIJAYAKRISHNA G	AMI
37	ELAKKIYA S	AMI

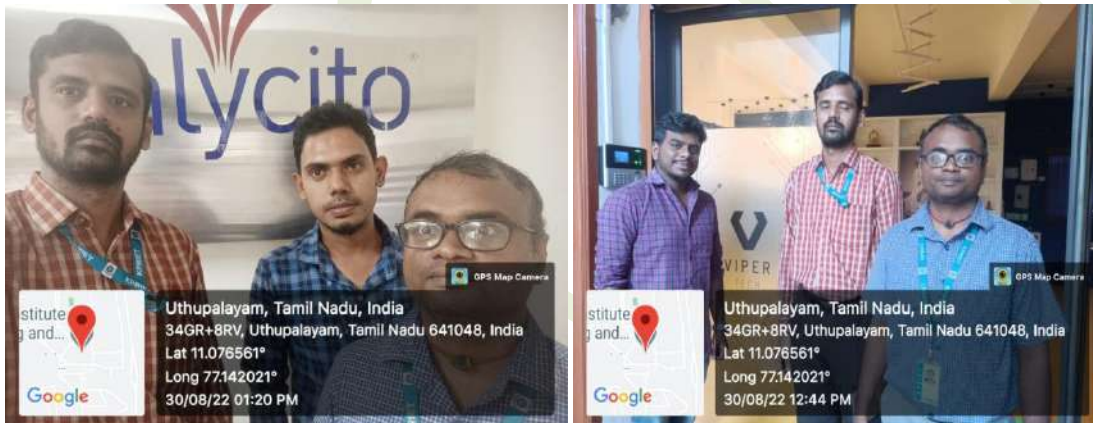
Total Number of students Placed:104

Total Number of Offers : 154
Total Number of Companies Visited:18

IIPC ACTIVITIES

INDUSTRY VISITS

- Mr.K.Saravanan and Mr.G.K. Jakir Hussain visited Vipertech IoT on 30/08/2022 and discussed about consultancy activities.
- Mr.K.Saravanan and Mr.G.K. Jakir Hussain visited Kalycito Infotech on 30/08/2022 and discussed about student internship opportunities.
- Dr.B.Jaishankar and Mr.T.Jagadesh visited Cobra Software Private Limited on 29/08/2022 and discussed about student internship.
- Mr.T.Jagadesh visited Unik Power on 13/08/2022 and discussed about student internship.
- Dr.B.Jaishankar and Mr.T.Jagadesh visited Ausweg Automation on 08/08/2022 and discussed about student internship and consultancy services.



PRODUCT LAUNCH

- Department of ECE proudly launches 5 products in association with RS power systems on ELEKTROTEC 2022 held at CODISSIA trade fair complex on 13/08/2022.

கோவை, ஆக. 22—
கேபிஆர் பொறியியல் மற்றும்
தொழில்நுட்பக் கல்லூரியின்
எலக்ட்ரானிக்ஸ் அண்ட்
கம்யூனிகேஷன் துறையும் ஆர்.எஸ்.
பவர் சிஸ்டம் கம்பெனியும் இணைந்து
குறைந்த விலையில் சிறப்பாக
செயல்படும் பேட்டரி சார்ஜர் மற்றும்
சூரிய ஒளியில் இயங்கும், தானியங்கி
மின்சார விளக்குகளை தயாரித்து
உள்ளனர்.

இந்த தயாரிப்புகளை மக்கள்
பயன்பாட்டுக்கு அளிக்கும் விழா
கோவை கொடிசியா வளாகத்தில்
நடைபெற்ற 'எலக்ட்ரோடெக் 2022'
கண்காட்சியில் நடைபெற்றது.

இந்த நவீன படைப்புகளை
கொடிசியாவின் தலைவர் திருஞானம்
அறிமுகப்படுத்த, ஓரிமார்ட்
நிறுவனத்தின் நிறுவனர் சபிர் இமானி
மற்றும் பெண்டா கம்பெனியின்
நிறுவனர் குமார் வெங்கடாசலம்
ஆகியோர் பெற்றுக் கொண்டனர்.

கேபிஆர் கல்வி நிறுவனங்களின்
தலைவர் கே.பி.ராமசாமி மற்றும்
கேபிஆர் பொறியியல் கல்லூரியின்
முதல்வர் அகிலா வழிகாட்டுதலில்
உருவாக்கப்பட்ட இந்த தயாரிப்புகளை
அறிமுகப்படுத்தி இதன் சிறப்பு
அம்சங்கள் பற்றி குறிப்பிடும்
போது இந்த படைப்பானது
எஸ்எம்பிஎஸ் தொழில்நுட்பத்துடன்

கேபிஆர் பொறியியல் கல்லூரி மாணவர்கள் தயாரித்த சோலாரில் இயங்கும் தானியங்கி மின்சார விளக்குகள்: குறைந்த விலையில் பொதுமக்களுக்கு விற்பனை



உருவாக்கப்பட்டுள்ளது என்றும்,
ஏற்கனவே சந்தையில் உள்ள
பேட்டரி சார்ஜர்களை ஒப்பிடும்போது
தங்களது படைப்புகள் அதிவேகமாக
பேட்டரியை சார்ஜ் செய்யக்கூடியது
என்றும், சந்தை விலையை விட
குறைவான விலையில் மக்களுக்கு
அளிக்கப்பட்டுள்ளது என்றும்
கூறினார்.

இந்த விழாவில் கல்லூரியின்
தலைமை நிர்வாக அதிகாரி ஏ.எம்.
நடராஜன், எலக்ட்ரானிக்ஸ்
கம்யூனிகேஷன் துறை தலைவர்

கதிர்வேலு, கல்லூரியின் ஐஐபிசி
தலைவர் கிருபா சங்கர் மற்றும்
பேராசிரியர்கள் மாணவர்கள் கலந்து
கொண்டனர்.

இந்த படைப்புகளை உருவாக்கிய
பேராசிரியர்கள் மற்றும்
மாணவர்களுக்கு கல்லூரியின் சார்பாக
வாழ்த்துக்களும் பாராட்டுகளும்
தெரிவிக்கப்பட்டது.

மேலும் வரும் ஆண்டுகளில்
இதுபோன்ற பல படைப்புகள்
உருவாக்கப்படும் என்றும்
தெரிவிக்கப்பட்டது.

STUDENT ARTICLE

THANJAVUR PAINTINGS

Thanjavur paintings are one of the well known traditional art forms in southern India. This art talks about Hindu mythology which includes their glorious period, civilization, culture etc.. This type of art originated in the Maratha court in Thanjavur. They are recognised as geographical indications by the Tamilnadu government. These paintings are made in woods and hence called Palagai Padam by the locals. In addition to that the paintings were also done in canvas, glass, paper, mica and walls.



We can find these paintings in many temples including Brihadeeswara temple in Thanjavur. The art found its golden era during king Serfoji's reign, despite the difficult path of the king and constant battle from his rival.

STYLE AND TECHNIQUE

The paintings are made in different sizes according to the request of the patrons. Paintings of kings, scholars and ministers were hung in the walls of those palaces during Maratha period. In the past, artists used natural colours like vegetable and mineral dyes, whereas the present day artists use chemical paints. For outlines dark brown or red was usually used. Red was favoured for the background, though blue and green were also used. Lord Vishnu, was coloured blue, and Lord Nataraja chalk white, and his consort Goddess Sivakami was green. The sky, of course, was blue, but black was also employed on occasions.



Thanjavur paintings continue to be made even to the present day, though not with the rigour and virtuosity that marked the paintings of yore. 'Revival' programmes, Exhibitions, Workshops and Training camps on Thanjavur paintings are being conducted regularly by many institutions including State Governments.

Ms.S.A.Anuvamsha

19EC008

IV ECE A,

KPR Institute of Engineering and Technology,

Coimbatore.

KPR
INSTITUTE
OF
ENGINEERING
AND
TECHNOLOGY