



KPR Institute of Engineering
and Technology

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407

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

NEWSLETTER- OCTOBER 2023 ISSUE



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Vision

To be a center of excellence for education, research and development in the field of Electronics and Communication engineering to meet the growing needs of the society.

Mission

- Develop competencies in emerging technologies through skill based education collaborating with industries of repute
- Provide conducive environment for research and innovation to cater to the needs of the society
- Inculcate professionalism, ethical values and lifelong learning

Programme Educational Objectives

- PEO1: Apply principles of Electronics and Communication Engineering to provide solutions to the emerging problems in the society.
- PEO2: Embrace technological challenges through skill upgradation or higher education or research.
- PEO3: Exhibit leadership qualities with professional and ethical values.

EVENT ORGANIZED

- One credit course on U21OEC03 - Industrial IoT has organized by the Department of ECE during 04.10.23 and 05.10.23. Dr.M.Kalamani, Prof./ECE and Dr.R.Jaikumar, AsP/ECE coordinated this event. Resource person Mr.S.Ganesh Prabhu, Engineer – Embedded Division, Caliber Interconnects Pvt. Ltd., Coimbatore handled the session with hands on training in Node MCU and Raspberry Pi for third year ECE students. Two day sessions covers the following areas: Introduction to Industrial IoT Embedded C and Linux Node MCU and Raspberry PiMQTT Protocol Sensor Data Acquisition and communication between nodes The following Experiments are developed with hands on session:1.Set up an MQTT broker on the Raspberry Pi, publish sensor data, and subscribe to it from Node MCU/Raspberry Pi.2. Creating simple dashboard using HTML for controlling Industrial IoT system.3.Communicate sensor data from Node MCU to Raspberry Pi through Wi-Fi.Communicate sensor data from Node MCU to Node MCU through Bluetooth.Totally 37 ECE has students registered and attended this session. Resource person handled the session as per schedule. In addition, he deliberated more information related to skills required for fresher and also highlighted the industry needs. Assessment is given as group projects and students developed the simple automation projects using Raspberry Pi.

The poster is for a one-credit course titled "U21OEC03 - Industrial IoT" organized by the Department of ECE at KPR Institute of Engineering and Technology. The course is led by Mr. Ganesh Prabhu S, an Engineer in the Embedded Division at Caliber Interconnects Pvt. Ltd., Coimbatore. The course runs from 08:45 AM to 4:15 PM on October 4, 2023, and October 5, 2023, at the Centre for IoT. The poster includes the KPR Institute logo, a "Great Place To Work Certified" badge, and various accreditation logos at the bottom.

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

DEPARTMENT OF ECE

ONE CREDIT COURSE
U21OEC03 - Industrial IoT

Mr. Ganesh Prabhu S
Engineer - Embedded Division
Caliber Interconnects Pvt. Ltd., Coimbatore

08.45 AM to 4.15 PM **04.10.2023 & 05.10.2023**

Centre for IoT

Co ordinators : Dr.M.Kalamani, Prof./ECE
Dr.R.Jaikumar, AsP/ECE

kpriet.edu.in | KPRIETonline

Great Place To Work Certified

Accreditation logos: ISO 9001, ISO 14001, ISO 45001, G20, SRI, SDG

- The Indian Society for Technical Education (ISTE) plays a significant role in enhancing the student portfolio, particularly for students pursuing technical and engineering education. The contribution of ISTE carried out in Curriculum Development: ISTE often collaborates with academic institutions and experts to develop and update technical education curriculum. Technical Competence: ISTE promotes the development of technical competence among students. Through workshops, seminars, and conferences, students can gain exposure to the latest advancements in technology and engineering. Professional Development: ISTE provides opportunities for students to engage in professional development activities. These might include attending technical webinars, joining ISTE student chapters, and participating in hackathons or technical competitions. Networking Opportunities: ISTE facilitates networking among students, faculty, and industry professionals. Research and Projects: Many technical and engineering students engage in research projects and practical applications of their knowledge. ISTE encourages and supports such initiatives. Skill Enhancement: ISTE offers resources and guidance for students to acquire additional technical skills and certifications. These skills can be documented in the portfolio to demonstrate a student's versatility and readiness for various roles within the technical industry.



- SPARTRANZ, the Electronics and Communication Engineering department students' association, successfully organized the 'Plan Your Future' webinar on October 28, 2023. The event was aimed at providing students with insights into career opportunities in both core and software industries. Mr. SNT Gokul, a Junior Data Analyst at CES IT Private Limited, Chennai, served as the guest speaker, sharing his expertise and experiences with the students. Mr. SNT Gokul, an accomplished Junior Data Analyst

at CES IT Private Limited, was introduced as the guest speaker. His background and expertise in data analysis and electronics engineering made him an ideal choice to provide insights into the software industry and its relevance to the ECE field. Mr. Gokul delivered an engaging and insightful presentation, covering the following key topics: His personal journey and experiences in the software industry. The role and significance of data analysis in the software sector. Valuable advice and guidance for students to effectively plan their future careers. Mr. Gokul's presentation offered students a unique perspective on the software industry, emphasizing the interplay between electronics and data analysis. Following the presentation, a lively Q&A session allowed students to ask questions and seek clarification on various topics related to career planning, the software industry, and data analysis. Mr. Gokul's responses were both informative and practical, addressing students' queries effectively.

The poster is for a webinar organized by the Students' Association SPARTRANZ at KPR Institute of Engineering and Technology. The event is titled "Plan Your Future" and is scheduled for 28.10.2023 at 10.30 AM. The guest speaker is Mr. S.N.T. Gokul, a Junior Data Analyst at CES IT Private Limited, Chennai. The poster includes the KPR Institute logo, the department name (DEPARTMENT OF ECE), and a "Great Place To Work" certification badge. It also features social media icons and the website URL kpriet.edu.in.

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

DEPARTMENT OF ECE

Great Place To Work Certified

STUDENTS' ASSOCIATION SPARTRANZ organizes a webinar on "Plan Your Future"

Mr. S.N.T. Gokul
Junior Data Analyst,
CES IT Private Limited,
Chennai.

28.10.2023 | 10.30 AM
<https://meet.google.com/qob-qycn-phi>

kpriet.edu.in | KPRIETonline

- The primary objective of the lecture series was to provide students with real-world insights and experiences shared by an esteemed alumnus, Mr. C. Suresh. His expertise as a Hardware Engineer at VVDN Technologies added significant value to the event, offering students a practical understanding of the industry and its expectations. Mr. C. Suresh, a distinguished alumnus, shared his professional journey, highlighting the challenges and achievements throughout his career. His experience in the field of Hardware Engineering, particularly at VVDN Technologies, Pollachi, offered invaluable insights to the attending students. The lecture covered various key aspects of hardware engineering, emerging trends in the industry, and the importance of staying updated with technological

advancements. Mr.Suresh also shed light on the relevance of the academic curriculum to the industry's requirements and shared tips on career development. The students had the chance to network with Mr. Suresh, fostering connections and gaining valuable insights into potential career paths and opportunities in the electronics and communication engineering domain. The Alumni Lecture Series IV featuring Mr. C. Suresh was a resounding success, providing students with an enriching experience and practical knowledge that will significantly benefit them in their academic and professional pursuits.

KPR Institute of Engineering and Technology
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ALUMNI LECTURE SERIES - IV

Topic : Opportunities in Electronics Industries

28 Oct 2023
11.30 AM - 12.30 PM
D-210 ECE Block

DEPARTMENT OF ECE

Mr.C.Suresh (2017-2021)
Hardware Engineer,
VVDN Technologies,
Pollachi.

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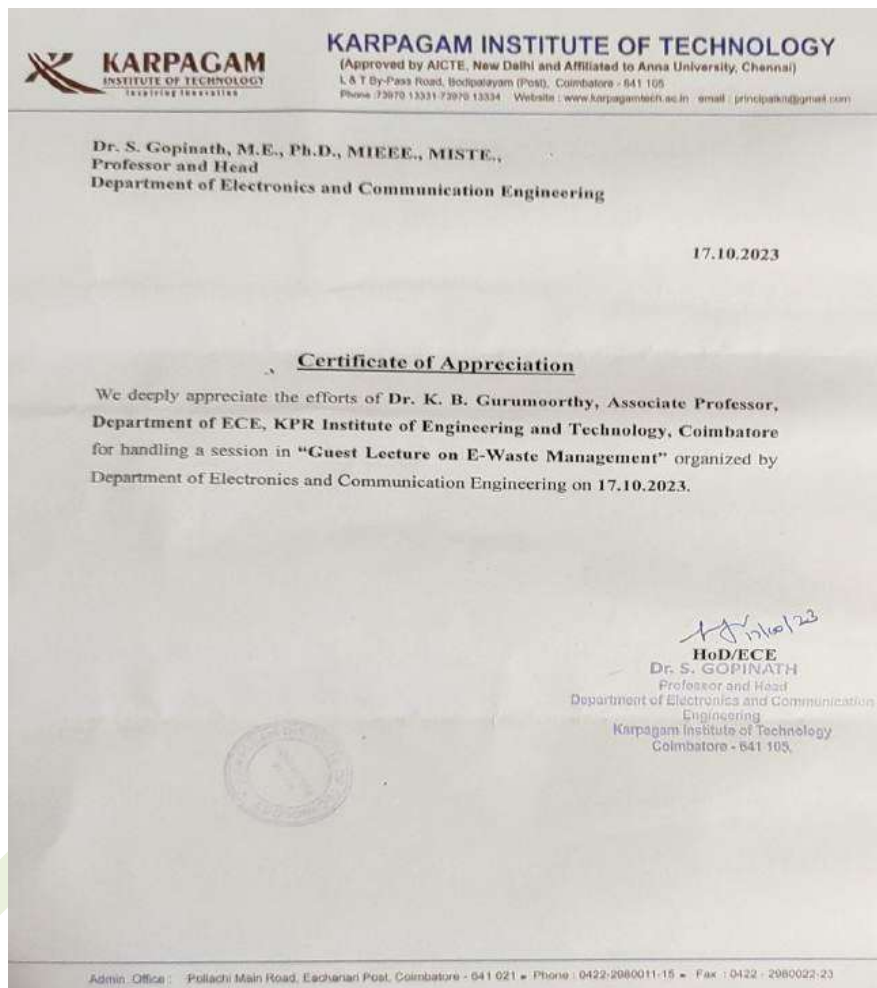
G20

FACULTY AS RESOURCE SPEAKER

- Dr.J Indra, Professor & Head, Department of ECE, KPR Institute of Engineering and Technology delivered an expert talk about Text-to-Speech Synthesis at SRM Institute of Science and Technology on 18.10.2023.



- Dr.K.B.Gurumoorthy, Associate Professor, Department of ECE, KPR Institute of Engineering and Technology as a Resource person for Guest lecture " E-Waste Management" organised by Karpagam Institute of Technology on 17.10.2023.



FACULTY PUBLICATIONS

- R.Nidhya, D.Pavithra, R.Kalpana, **M.Kathirvelu**, & P.Jayarajan. (2023). Energy harvesting scheme using queuing theory for Wireless Body Area Network. *Energy Harvesting Trends for Low Power Compact Electronic Devices*, 169–186. https://doi.org/10.1007/978-3-031-35965-1_9
- **Jaishankar Balasubramanian**, Bharathi Gururaj, & Nandam Gayatri. (2023). An effective autism spectrum disorder screening method using machine learning classification techniques. *Concurrency and Computation: Practice and Experience*. <https://doi.org/10.1002/cpe.7898>
- M. Deeparani, & **M.Kalamani**. (2023). Gynecological healthcare: Unveiling pelvic masses classification through evolutionary gravitational neocognitron neural network optimized with Nomadic People Optimizer. *Diagnostics*, 13(19), 3131. <https://doi.org/10.3390/diagnostics13193131>

- Ramkumar, M., Kalirajan, K., Kumar, U.P. *et al.* Deep volcanic residual U-Net for nodal metastasis (Nmet) identification from lung cancer. *Biomed. Eng. Lett.* (2023). <https://doi.org/10.1007/s13534-023-00332-5>.(SCIE Indexed)
- Kalirajan, K. , Suganya, D.N., Survesh Hari, S., Sanjay, K.M., Vishnu Raj, S. “ATM Assisting Device for Secure Transactions using GSM Technology”, Proceedings - 2023 3rd International Conference on Pervasive Computing and Social Networking, ICPCSN 2023, 2023, pp. 885–889. (Scopus Indexed) doi: 10.1109/ICPCSN58827.2023.00151.
- Kalirajan, K., Abinaya, M. “Highly Secure Approximate Adiabatic Logic for Error Tolerant Applications “, Proceedings - 2023 3rd International Conference on Pervasive Computing and Social Networking, ICPCSN 2023, 2023, pp. 962–966, doi: 10.1109/ICPCSN58827.2023.00164.(Scopus Indexed)

FACULTY PARTICIPATION

Name of the Faculty	Title of FDP/STTP/OFDP/Conference/Online Course	Organization Name	Start Date	End Date
Dr.S.M.Ramesh	Exploring Horizons: The Next Wave of AI and Data Science	SRM TRP Engineering College	9/25/2023	9/29/2023

STUDENT PARTICIPATION

S.No	Event Name	No of students participated
1	Online course	95
2	workshop	Nil
3	Contest (Quiz, Coding Contest, club events, etc.)	08
4	Paper presentation	07

5	Internship	Nil
6	Project Presentation	05
7	NSS, YRC activities	Nil

PLACEMENT DETAILS

S.No	Name of the Student	Name of the Company
1	Levin Joesph Raj A	Visteon Corporation
2	Kawin MS	Visteon Corporation
3	Yeshwanth Kumar S	Renault Nisstan Technology
4	Chakravarthi C T R	Accenture
5	Kavya A S	Accenture
6	Soundrika P	Accenture
7	Athish C B	Accenture
8	Soundrika P	Accenture
9	Pranathi S	Accenture
10	Levin Joesph Raj A	Accenture

STUDENT ACHIEVEMENT

S.No	Name of the Student	Year	Title of the Event	Organized by (Name of College and Club)	Prize - Merit Position
1.	Amrudhavarshini	IV-ECE-A	CynoSurE	KGISL Institute of Technology	1st Prize
2.	Aswin R	IV-ECE-A	CynoSurE	KGISL Institute of Technology	1st Prize
3.	Priyanka C	II-ECE-B	Genesis 2K23	Sri Ramakrishna Engineering College	2nd Prize
4.	Nikhita M	II-ECE-B	Genesis 2K23	Sri Ramakrishna Engineering College	2nd Prize
5.	Sekar Nagul A I	II-ECE-B	MEQUEST 23	Sri Ramakrishna Engineering College	3rd Prize
6.	Sachin N	III-ECE-C	Aaruush'23	SRM Engineering and technology college	2nd prize

7.	Ranjithkumar M	III-ECE-C	Aaruush'23	SRM Engineering and technology college	1st prize
8.	TRIVIKRAM M	III-ECE-C	Aaruush'23	SRM Engineering and technology college	2nd prize
9.	Sumanth G K	III-ECE-C	Aaruush'23	SRM Engineering and technology college	1st prize
10	Yaswanth K S	III-ECE-C	Aaruush'23	SRM Engineering and technology college	1st prize
11	Ranjith kumar C	III-ECE-C	Aaruush'23	SRM Engineering and technology college	2nd prize

IIPC ACTIVITIES

Industry visit

1. Dr.J,Indra, HoD/ECE and Mr.S.Satheeshkumar, AP(Sr.G)/ECE along with 40 students from ECE department visited Agri TBI at TNAU on 16.10.2023



2. Dr.K.S.Tamilselvan, Dr.J.Prasad and Dr.K.B.Gurumoorthy visited M/s.Spectra Plast India Pvt. Ltd and M/s.K-TEX Automations on 14.10.2023



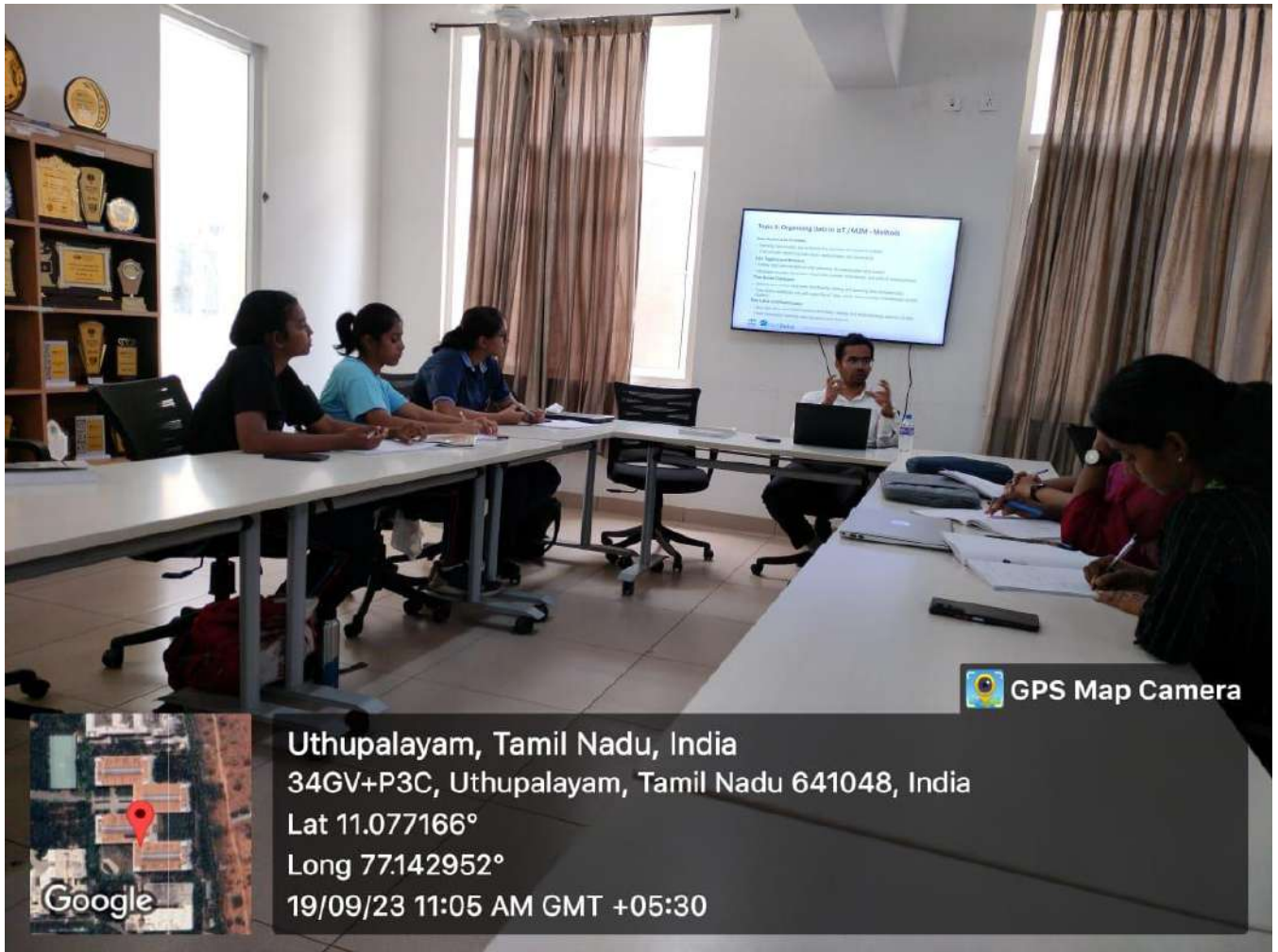
Guest Lectures

1. Department of ECE has organized a Six-days guest lecture during the month of October 2023 with M/s.Caliber Interconnect



Totally 12 students attended and benefited by the Guest Lecture

2. The department of ECE has organized Honors course and students visiting with M/s. Mach Datum Pvt.Ltd



Totally 6 students were attended the Honors course and visited the industry with ECE department faculty Mr.T.Venkatesh on 17.10.2023