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

LEARN BEYOND

Department of Electronics and Communication Engineering
(Accredited by NBA)

NEWSLETTER- FEBRUARY 2022 ISSUE

EDITORIAL BOARD

➤ 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 organized a webinar on Software Defined Networking for III year ECE students on 04/02/2022 from 03.00 PM to 04.00 PM. The webinar was delivered by Dr.V.Sakthivel from Vellore Institute of Technology, Chennai. He addressed the basics of software defined Networking, evolution of SDN and Layered architecture. Also he discussed about openflow protocol for implementation of software defined networks.

➢ The department of ECE organized a webinar on Advanced Robotics in Manufacturing Industry on 05.02.2022 from 2.30 P.M to 3.45 P.M. The chief guest of the day was Mr. K. Ilanchezhian, Assistant Manager – Technical, Prolific Systems and Technologies, Pvt, Ltd., Coimbatore. The session started with a warm presentation on robotics application in manufacturing industries. Participants are ECE department students of various years and research scholars.Overall 71 participants attended the webinar.
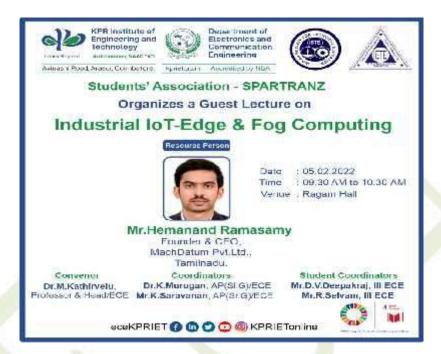
- The department of Electronics and Communication Engineering students association SPARTRANZ of KPR Institute of Engineering and Technology organized a Guest lecture on "Industrial IoT-Edge & Fog Computing" on 05.02.2022. The resource person is Mr. Hemanand Ramasamy, Founder and CEO, Mach Datum Pvt.Ltd, Tamilnadu. Around 135studnets from I and III year have attended this guest lecture. He has elaborated about the basics of IoT and explained the difference between IoT and Industrial IoT. And also he has explained the need of edge and fog computing. The session was very interactive.

- Centre for Innovation,Incubation and Entrepreneurship Development(CIIED) cell of KPRIET in association with department of ECE organised a webinar on "Marketing Skills and Promotion of Small and Medium Scale Enterprise".Mr.Mouneshwar Kalaikumar, Director- Fuzionest Private Limited, Founder - TEQTA, Ava Kids, CocoPuree Air, Coimbatore was the Chief Guest of the event. Mr.S.Satheesh Kumar Assistant Professor (Sr.Grade) and Department Coordinator-CIIED proposed the presidential address and welcomed the guest. He addressed all the streams of Engineering Students of KPRIET and more than 130 members has participated in this event. Along with the HoD and faculty members of the various engineering departments, CIIED members had attended the event. The webinar mainly focused on marketing practice of Small and Medium Scale Enterprises (SME) in India. The specific key learning objectives are to highlight the strategic importance of SMEs in economic development of any economy; to sketch the patterns of Government support programmes for development of SMEs and Past Empirical Studies of SMEs performance in India; to highlight the importance SMEs for survival and continued growth of Indian Economy; to highlight the impact of environmental factors on marketing practice of SMEs; to establish the extent to which marketing practice of SMEs in India conforms with marketing principles and functions. The Indian marketing environment presents features that are quite different from the developed economies and even quite different from other developing countries.. He clarified all the doubts which has been interrogated by all

the young entrepreneurs of KPRIET. Mr.S.Satheesh Kumar – Department Coordinator/CIIED conveyed the vote of thanks for the event.

> Department of ECE in association with Office of Alumni Relations (OAR) organized Alumni Lecture series - 5 on "A motivational talk on Values for Life" on 12.02.2022 from 09:00 am to 10:00 AM. Ms.M.Supriya (AP/ECE) welcomed the gathering and introduced the resource person.The resource person Ms.R.Monika(2014–2018 batch), Senior Academic Specialist, Training,BYJUS discussed about Values for life. The resource person explained about corporate life and how to overcome the struggles. She has given the tips to improve positivity among ourselves and spread happiness. She also said about college life and also importance of life. Students gave good feedback about the delivery of content by the resource person. The speaker was pleased to answer the students.

- Mr.D.RamNivas, Design Innovation and Technology Expert, Assistant Professor, Department of ECE, KPRIET, Coimbatore was the Chief Guest of the event. Mr.S.Satheesh Kumar Assistant Professor (Sr.Grade) and Department Coordinator- CIIED proposed the presidential address and welcomed the guest. He addressed all the streams of Engineering Students of KPRIET and more than 120 members has participated in this event. Along with the HoD and faculty members of the various engineering departments, CIIED members had attended the event. Title of the session is Workshop on Design Thinking, Critical thinking and Innovation Design. The workshop mainly focused on solving problems by prioritizing the consumer's needs above all else. It relies on observing, with empathy, how people interact with their environments, and employs an iterative, hands-on approach to creating innovative solutions. He also provided numerous exercises to the participants to make them understand how to think critical and innovate new ideas. Design thinking minimizes the uncertainty and risk of innovation by engaging customers or users through a series of prototypes to learn, test, and refine concepts. Design thinkers rely on customer insights gained from real-world experiments, not just historical data or market research. He clarified all the doubts which has been interrogated by all the young entrepreneurs of KPRIET. Mr.S.Satheesh Kumar – Department Coordinator/CIIED conveyed the vote of thanks for the event.

- The department of ECE and office of international relations of KPRIET organized a webinar on career and internship opportunities in signal, automation and robotics on 22.02.2022. The Welcome address was addressed by Mr.S.Vasanthaseelan, Convenor, Head/Office of International Relations. Our event partner galaxy educational consultant addressed students about the career and internship opportunities in Signal, Automation and Robotics. The Students preferred university professor and admission officer, had a face to face interaction with the

students and deliberated to build their global career through the Computer science, Signal and automationprogramme.Resource person also clarified the doubts raised by the students on the admission procedure, university programme& benefits like scholarship, internship and career. Total of 10 faculty and 100 students attended the programme.

➤ Mr.Rithik Krishna, Founder & Chief Executive Officer, Sai Innovations, Tirupur was the Chief Guest of the event. Mr.S.Satheesh Kumar Assistant Professor (Sr.Grade) and Department Coordinator- CIIED proposed the presidential address and welcomed the guest. He addressed all the streams of Engineering Students of KPRIET and more than 100 members has participated in this event. Along with the HoD and faculty members of the various engineering departments, CIIED members had attended the event. Title of the session on 'Startup Initiatives' and spoke about the importance of early stage in startups. He also focussed mainly on Business Model Canvas, Talent Pool and Fund Raising. Startup Initiatives are established to connect startups with the business resources they need and provide them with opportunities for growth. The webinar intended to support the entrepreneurs, building a robust startup ecosystem and transforming young India into a country of job creators instead of job seekers. He also focused on Scalable startups, Small business startups,Lifestyle startups, Buyable startups, Big business startups and Social startups. He also highlighted the "Industry-Academia Partnership and Incubation" Startup India initiative where the Union Ministry of Human Resource Development has announced plans for the development of "Research Parks" to be created in partnership with higher education providers across India. He clarified all the doubts which has been interrogated by all the young entrepreneurs of KPRIET. Mr.S.Satheesh Kumar – Department Coordinator/CIIED conveyed the vote of thanks for the event.

- ➤ Department of Electronics and Communication Engineering organized a hands-on refresher course on "PCB Design using Altium" for 2nd year students on 26.02.2022. Total of 30 students attended the course. The course was handled by Mr. K. Kumaresan, senior software developer, Robert Bosch, Coimbatore. The course gave an in-depth knowledge about the design of PCB using Altium software. The students were given hands-on training on Altium software. Each student is given the circuit and were made to design the PCB circuit by creating own libraries.

➢ Department of ECE and IETE students forum organised a technical JAM (Just A Minute) and technical quiz (E=MC Hammer), where participants need to speak about the technical topic from their stream about minute for JAM and, E=MC Hammer (technical quiz) participants were divided into team of 6 members and nominated one as captain. This event was conducted on 26th of February from 02:30 PM to 04:00 PM.

FACULTY PUBLICATIONS

➢ **Nithya S, Seethalakshmi V** "MIMO Antenna with Isolation Enrichment for 5G Mobile Information", Hindawi, ISSN:1875-905X,Feb 2022**.(SCIE Indexed**).

➢ K.Saravanan,Tamilselvan M,Rajendran A "Cross Layer QoS Aware Scheduling based on Loss-Based Proportional Fairness with Multihop CRN", Tech science Press,Feb 2022. **(SCIE Indexed**).

FACULTY PATENT PUBLICATIONS

S. No.	Name of the Applicant/Inventor	Title of the Project/Invention	Application No.	Date of Publication	Current Status
1	Dr.M.Aklila Dr.J.Indra Dr.A.C.SumathiDr.R.KirubaShankar Dr.S.Sankar Ganesh	Method and System for Efficiency Enhancement in IoT System with Supportive AI	202241005871 A	11-02-2022	Published
2	Dr.R.KirubaShankar, Dr.J.Indra, Dr.P.Sreelatha Dr.S.Balasubramanian Mr.P.Manikandan	Smart Farming with Automated Irrigation System and Disease Diagnosis	202241005873 A	11-02-2022	Published
3	Dr.G.Sumana Dr.S.M.Ramesh Dr.SherafinJancyvincy Dr.M.Chandrasekar Dr.Prithwiraj Mohapatra Vaibhav sarjero G.Aparna Dr.S.Christobher Satyabratajena Kousar begum Tapas kumarKhuntia Yagnambhatla Rajendra	Classification of Images Captured using CT for kidney Releated Ailments	202241007602	25-02-2022	Published

FACULTY AS RESOURCE SPEAKER

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➢ Dr.V.Seethalakshmi Associate Professor, Mr.V.Chandraprasad,Assistant Professor (Sr.G), Mr.M.Singaram, Assistant Professor (Sr.G), Mr.S.P.Cowsigan, Assistant Professor (Sr.G), Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a two days Technical workshop on "Antenna Design and Simulations for Real time Applications" conducted by Sri Shakthi Institute of Engineering and Teachnology, on 08-02-2022 to 09-02-2022.

> Mr.K.Saravanan, Assistant Professor (Sr.G), Mr.G.K.Jakir Hussain, Assistant Professor (Sl.G), Dr.S.Kirubakaran, Assistant Professor (Sl.G), Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for an Executive Development program on "Insights of AI and Industrial IoT", conducted by KPR Institute of Engineering and Teachnology, from 21-02-2022 to 28.02.2022.

- Mr.T.Jagadesh, Assistant Professor (Sr.G), Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a lecture program on "Target Tracking in Defence Radar" conducted by Chip Crafts, Coimbatore on 17.02.2022.

- Dr.M.Kathirvelu,Professor & Head, Dr.M.Kalamani, Associate Professor, Mr.G.Prdaeep kumar, Assistant Professor (Sr.G), Mr.S.Satheesh kumar,Assistant Professor Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a six days induction programme on "Cognitive Skills for Active Learners" conducted by KPR Institute of Engineering and Teachnology, from 21.02.2022 to 26.02.2022.

- Dr.K.S.Tamilselvan, Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as a resource person for a lecture series 3 on "Product Development and start-up schemes", on 03.02.2022.

FACULTY PARTICIPATION

Name of the Faculty	Title of FDP/STTP/OFDP	Organization Name	Start Date	End Date
Mr.K.Saravanan	Advances in MEMS, RF MEMS & SIGNAL PROCESSING	Presidency University, Bangalore	2/12/2022	2/17/2022
Ms.S.Chandraprabha	Carbon Balance and Environmental Sustainability	BMS College of Engineering	2/7/2022	2/11/2022
Ms.R.Dhivya Devi	ATAL FDP	Shri Shankaracharya Group of Institutions, Bhilai	2/1/2022	3/5/2022
Ms.M.Supriya	Robotics and Artificial Intelligence	AICTE Training and Learning (ATAL) Academy	2/7/2022	2/11/2022
Mr.T.Shanmugaraja	Industry 4.0	Industry 4.0	1/31/2022	2/4/2022
Mr.T.Shanmugaraja	Machine learning(With python)	Machine learning(With python)	2/8/2022	2/12/2022
Dr.S.M.Ramesh	Cognitive Skills for Active Learners	ATEL - KPR Institute of Engineering and Technology	2/21/2022	2/26/2022
Ms.S.Gunanandhini	Robotics and Artificial Intelligence	AICTE Training and Learning (ATAL) Academy	2/7/2022	2/11/2022

Ms.R.Aswatha	Robotics and Artificial Intelligence	AICTE Training and Learning (ATAL) Academy	2/7/2022	2/11/2022
Dr.S.M.Ramesh	Cognitive Skills for Active Learners	KPR Institute of Engineering and Technology	2/21/2022	2/26/2022
Mr.N.SathishKumar	Robotics and Artificial Intelligence	AICTE Training and Learning (ATAL) Academy	2/7/2022	2/11/2022

PLACEMENT DETAILS 01.02.2022 to 28.02.2022

S.No	Name of the Student	Name of the Company
1	Ajay R	CES
2	Amrith B	Maventic
3	Arunagiri M	Maventic
4	Chandramohan S	Maventic
5	Christo P Joy	Maventic
6	Govardhan S	KAAR
7	Nigill J K	Maventic
8	Pranesh Raja V	Maventic
9	Sairanjan S	Maventic
10	Sakthivel S	Maventic
11	Vidhyapathi N	Maventic

Total Number of students Placed:11
Total Number of Companies Visited:03

IIPC ACTIVITIES

INDUSTRY VISIT

- ➢ Visited New Qbitronics Embedded and discussed about consultancy services.
- ➢ Visited Mach Datum Private Limited to discuss about consultancy activities.
- ➢ Visited RS Power Systems to procure components for consultancy services.

MoU

- ➢ Signed MoU with MachDatum Private Limited on 05/02/2022

CONSULTANCY

- ➢ Completed consultancy at Sri Sakthi Institute of Engineering and Technology, Coimbatore on Antenna Design and Fabrication of Rs.10,000.