



LEARN BEYOND

KPR Institute of Engineering
and Technology

(Autonomous)

Avinashi Road, Arasur, Coimbatore - 641 407

Department of Electronics and Communication Engineering
(Accredited by NBA)

NEWSLETTER - MARCH 2024 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

Program 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

ALUMNI LECTURE SERIES

Department of ECE organizing alumni lecture series on March 2, 2024. This event is especially for second year students of ECE. The resource person is our alumni Mr. Daves P of 2023 batch. He has scored highest grade in IELTS. He is also a GRE aspirant. He will guide our students about IELTS cracking tips. The event 'Demystifying the IELTS' aimed to provide attendees with a comprehensive understanding of the International English Language Testing System (IELTS) exam. The event attracted a diverse audience interested in studying, immigrating, or working in English-speaking countries where IELTS scores are required. An experienced IELTS instructor provided a detailed explanation of the exam format, including the four sections: Listening, Reading, Writing, and Speaking. Strategies and tips for effective preparation were shared, including practice techniques, time management, and common pitfalls to avoid. Attendees gained a clearer understanding of the IELTS exam, its format, and scoring criteria. Students had the opportunity to ask questions and seek clarification on any aspect of the IELTS exam. The event concluded with a networking session, allowing participants to connect with fellow test-takers and professionals in the field.

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Mr. Daves P
(2019-2023 batch)
Star performer -IELTS

ALUMNI LECTURE SERIES - VII

Topic : Demystifying the IELTS : Roadmap to achieve your goals

02 Mar 2024
10.30 - 11.30 AM
D107(ECE block)



QUIZ COMPETITION

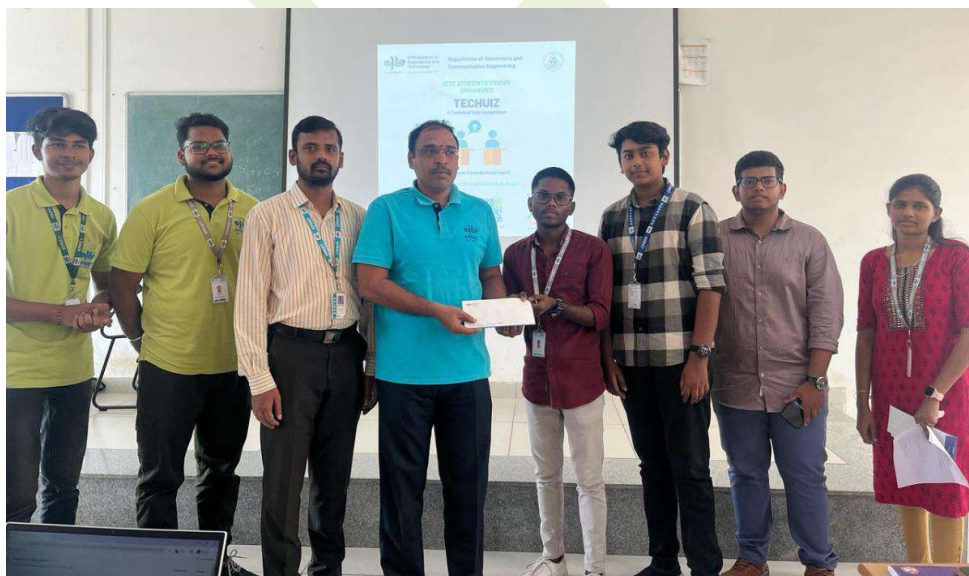
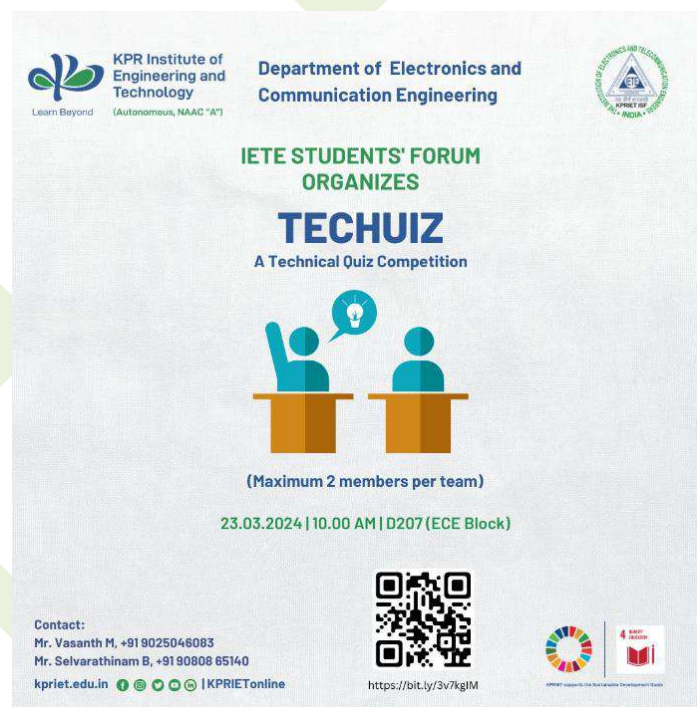
1) The Electronics and Communication Engineering students' association SPARTRANZ organizes a quiz event related to the domain "Electronics and Communication Engineering" in D-108, ECE block. The objective of this event is to evaluate the knowledge of the participants within academics as well as beyond academics and to make them familiar with the prospects of quizzes and the objectivity of the questions. There were four teams that participated in the competition. The quiz competition will be in all of the following areas relating to Automotive electronics, Consumer electronics, Wireless communication, 5G/6G technology, Analog Communication, Digital Communication, Internet of Things Rules for the Quiz Competition: Two / Three members are allowed for each team. The medium of the questions will be only English. There will be no screening round. All the participants can play all the rounds. On the average score derived from all the rounds, winners will be declared. If there is any tie up among the participants about the average score, it will be solved by taking another round or set of rounds. All rights related to the competition are reserved for the organizers. Rules and regulations can be changed over time, which will depend upon circumstances and the number of Entries. As per the assessment, Team-2 was awarded as a winner.



The poster features the KPR Institute of Engineering and Technology logo (Learn Beyond, Autonomous, NAAC "A") and the Department of Electronics and Communication Engineering. It announces that the Students' Association - SPARTRANZ organizes a "One Minute Manager Tech Quiz". The event details are: DATE: 09 Mar 2024, TIME: 10:00 AM - 11:00 AM, and VENUE: D-108. The poster includes a clock icon with "1min" and a gear icon with circuit traces.



2) The quiz comprised multiple-choice questions (MCQs), true/false questions, and/or short answer questions. Each round had a specific theme or focus area. The questions were designed to assess participants' understanding, problem-solving skills, and depth of knowledge in the chosen technical domain. Participants were awarded points based on the accuracy and timeliness of their responses. We got around 30 students registered for the event and all the teams participated in the technical quiz which started at 10 am. The winners of the event was Mr. Sivaraman.G (ECE) , Ms. Shashi.S (ECE) and they were awarded with a cash prize of Rs.300. Mr. Akash.V (ECE) , Mr. Macario (ECE) was selected as First runner up and they were also awarded with a cash prize of Rs.200. Ms. Harshana.S (ECE) , Ms. Anushree.S (ECE) was selected as Second runner up and they were also awarded with a cash prize of Rs.100. All the participants are provided with e-certificates and the cash prize was distributed to the winners by the Head of the Department, Department of Electronics and Communication Engineering.



TECH TALK

On March 23, 2024, from 10 to 11 a.m. in the III ECE-A class room, the student association of Electronics and Communication Engineering, "SPARTRANZ," organized a technical event for the students called 'Tech Talk.' The event's goal is to have a conversation on the latest developments in communication technology for different uses and career opportunities in communication technologies. Students from several departments took part and informed the attendees about current developments in communication technologies. The students engaged in lively discussion on the following subjects that pertain to communication technologies in Blogs Conferencing Technology Email Podcasts Radio Smart speakers Social media platforms Wearable technology: Smartwatches, Smart eyewear, Workout bands with fitness trackers, Augmented reality (AR) and mixed reality (MR) headsets, AI hearing aids, Body-mounted sensors, Medical alert monitors. After discussing the above topics, the faculty coordinator of the event, Dr.J. Prasad, Assistant Professor (Sl.G.), Department of Electronics and Communication Engineering, addressed the communication technologies career opportunities in the following fields: Computer programmer & Computer scientist & Database administrator & information research scientist.



FIESTAA 24 – PAPER PRESENTATION

This event is organized by the department of ECE. Totally 104 students shown the interest and 56 students consist of 23 teams actively participated during the event. All the teams are presented in the area of IoT, Recent technology, Health care and mostly students from first, second years participated this event. 4 teams won the first, second and third prices with amount of Rs.2000, Rs.1500 and Rs.1000 respectively. The paper presentation event at Fiestaa 2024 provided a platform for scholarly discourse and academic excellence. It not only celebrated the participants achievements but also inspired attendees to explore new horizons in research and innovation. The success of this event underscores Fiestaa's commitment to nurturing intellectual curiosity and promoting academic pursuits. The event fostered a spirit of healthy competition and camaraderie among participants, encouraging meaningful discussions and exchanges of ideas. The audience, comprising fellow participants, faculty members, and enthusiasts, actively engaged with the presenters, posing thought-provoking questions and offering constructive feedback. The presentations were characterized by depth and creativity, demonstrating the participants' dedication to their research areas. Each paper reflected extensive research and critical thinking, highlighting emerging trends and solutions in various fields.

KPR Institute of Engineering and Technology
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FIESTAA '24
Let's vibe together
NATIONAL LEVEL TECHNO CULTURAL FEST

MAR 27 & 28
Registration fee ₹500/- For 2 days

ELECTRONICS AND COMMUNICATION ENGINEERING

Date	Activity	Venue	Time
27 MAR	PAPER PRESENTATION	D105, D106	11:00 am
28 MAR	PROJECT PRESENTATION	Project Laboratory	11:00 am
28 MAR	WORKSHOP ON INTRODUCTION TO IOT	IoT Lab	2:00 pm
28 MAR	TECH QUIZ	D207	11:00 am

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FACULTY COORDINATOR
Mr. J Prasad - 97860 16054
www.kpriet.edu.in/fiestaa



FIESTAA 24 – QUIZ COMPETITION

The event aimed to foster intellectual curiosity, promote technical knowledge, and provide a platform for participants to showcase their expertise in various technical domains. The quiz comprised multiple rounds, each focusing on different aspects of technology including but not limited to programming languages, hardware, software, cybersecurity, networking, and emerging technologies. In first round tested participants understanding of fundamental concepts in technology. Rapid Fire Round: Participants had to answer a series of quick-fire questions within a limited time frame, testing their reflexes and depth of knowledge. Visual Round: Participants were shown images related to technology, and they had to identify and answer questions based on them. Teams were presented with real-world scenarios and had to analyze, strategize, and propose solutions within a stipulated time. Participants watched video clips related to various technological advancements and answered questions based on them. The winners were announced based on their cumulative scores across all rounds. Prizes were awarded to the top-performing teams, recognizing their dedication, hard work, and technical powers. The Technical Quiz Event provided a platform for participants to engage in healthy competition, expand their technical horizons, and network with like-minded individuals. It not only celebrated the spirit of technology but also inspired participants to continue their pursuit of knowledge in the ever-evolving field of technology.



FIESTAA 24 – PROJECT EXPO

During FIESTAA 2024, the department of ECE has organized the project presentation competition. Totally, 33 students from various institutions were participated and exhibited their projects. Participants were given the opportunity to present their projects to a panel of judges and an audience, with the aim of fostering creativity, collaboration, and knowledge sharing. Participants demonstrated creativity and collaboration as they presented their projects to judges and an engaged audience. After careful evaluation, winners were selected, with notable projects receiving honorable mentions. The competition highlighted the ingenuity and passion of the participants, and we extend our congratulations to all involved. Additionally, the competition served as a valuable platform for networking and knowledge exchange among participants, judges, and attendees. Through engaging presentations and discussions, valuable insights were shared, fostering a spirit of collaboration and community within the project presentation ecosystem. The event not only celebrated the achievements of the participants but also inspired others to pursue their innovative ideas and projects. Looking ahead, the organizing team is committed to leveraging the momentum generated by this successful competition to explore opportunities for continued growth and impact in the field of project presentation. Through ongoing collaboration and support, we aim to nurture a vibrant community of innovators and change-makers, driving positive change and innovation in various domains.



FACULTY PUBLICATIONS

- Sindhu Veeramani, **Ramesh S M**, & Gomathy B (2023). Exploring the potential of machine learning in Healthcare Accuracy Improvement. WSEAS TRANSACTIONS on COMPUTERS, 22, 374–379. <https://doi.org/10.37394/23205.2023.22.42>
- Sowmiya L, **Ramesh S M**, Arul A, & **Kathirvelu M** (2023). Low power adders for efficient image processing applications. International Research Journal on Advanced Engineering Hub (IRJAEH), 1(01), 19–23. <https://doi.org/10.47392/irjaeh.2023.003>
- **Sathishkumar N**, Rajesh Natarajan, Divya D & Divya S (2024). A broadband dual-polarized antenna for 5G Wireless Communication Systems. Results in Optics, 15, 100659. <https://doi.org/10.1016/j.rio.2024.100659>

FACULTY AS A RESOURCE PERSON

- Dr. M. Kathirvelu, HOD & Professor Department of ECE, KPR Institute of Engineering and Technology as a Resource person for the special lecture “NIRF RANKING METRICES- Decoding Process” on 14-03-2024 at Erode Sengunthar Engineering College.
- Dr. K. S Tamilselvan, Professor Department of ECE, KPR Institute of Engineering and Technology as a Resource person for the FDP “Recent Trends and Challenges in Medical Image Analysis” organized by CMR Institute of Technology on 18-03-2024 to 22-03-2024.

PATENT DETAILS

S.No	Application Number	Title of the Patent	Name of the inventor	Date of published
1.	202441013178 A	DETECTION OF CARDIOVASCULAR DISEASES THROUGH SERS ANALYSIS OF HUMAN	1)Dr.Hemalatha. Patibandla 2)Dr. B.Saritha 3)S. Pandarinathan 4)Dr. Mahendra Pratap Singh 5)Veeraragavan M 6)Dr.S.Sakthivel 7)Shelake Yogesh Dattatray 8)Dr. Amit chauhan 9)Dr Sumanta Bhattacharya 10)Dr Vishnu Kiran Manam 11)Mrs. Saranya M D 12)Dr Jyoti Prasad Patra	15-03-2024

2.	202441017357	DEVICE FOR VEHICLE TO VEHICLE COMMUNICATION USING RADIO FREQUENCY AND COGNITIVE RADIO FOR ROAD SAFETY	1)A Naresh kumar 2)Pavithra S 3)Rohini C S 4) Mallisri 5) Devadharshini M 6) Mr. Pradeepkumar G	22-03-2024
3.	202441022055	DEEP REINFORCEMENT LEARNING FOR RESOURCE ALLOCATION IN WIRELESS COMMUNICATION SYSTEMS	1 . Dr. Zahira Tabassum 2 . Mrs. Rashmi Rani Samantaray 3 . Mrs. Anees Fathima 4 . Dr. Sufia Banu 5 . Mrs. Noor Ayesha 6 . Dr. Abdul Azeez 7 . Mrs. Korudu Surekha 8 . Dr. S. Latha 9 . Mr. Shanmugaraja T	29-03-2024
4.	202431025921	SELF-IMPROVING ARTIFICIAL INTELLIGENCE THROUGH REINFORCEMENT LEARNING	1 . Dr. Narendra Kumar Kamila 2 . Dr. Sivaiah Sreeramula 3 . Dr. Lukman Yasin Patel 4 . Ms. Seema Arvind Darekar 5 . N V Muthu Lakshmi 6 . Dr. S. Vydehi 7 . Dr. N.C. Sachithanatham 8 . Dr. Venkatesh T 9 . Mr. D. Rajkumar 10 . Dr. Anumala Kalyani 11 . Dr. Harikumar Pallathadka	29-03-2024

FACULTY PARTICIPATION

Name of the Faculty	Title of FDP/STTP/OEDP/Conference/Online Course	Organization Name	Start Date	End Date
Tamilselvan K S	FDP	CMR Institute of Technology	20/03/2024	20/03/2024
Venugopal D	FDP	Aryabhata Knowledge University	27/02/2024	04/03/2024
Venugopal D	NPTEL	AICTE	01/01/2024	31/03/2024
Pradeep Kumar G	FDP	Star International Foundation for	19/03/2024	25/03/2024

		Research and Education		
Jakir Hussain G K	Conference	East Carolina University, USA & K S Rangasamy College of Technology	15/03/2024	16/03/2024
Shanmugaraja T	STTP	KPRIET	05/02/2024	16/03/2024
Ramesh S M	FDP	Bharati Vidyapeeth's College of Engineering	11/03/2024	15/03/2024
Gurumoorthy K B	FDP	Annant Gyan Knowledge and Skills Private Limited	26/02/2024	01/03/2024
Gunanandhini S	FDP	Annant Gyan Knowledge and Skills Private Limited	26/02/2024	01/03/2024
Jai Shankar B	NPTEL	IIT	08/01/2024	24/03/2024
Murugan K	NPTEL	IIT	08/01/2024	24/03/2024
Supriya M	NPTEL	IIT	08/01/2024	24/03/2024

STUDENT PARTICIPATION

S.No	Event Name	No of students participated
1	Online course	11
2	workshop	10
3	Contest (Quiz, Coding Contest, club events, etc.)	24
4	Paper presentation	93
5	Internship	
6	Project Presentation	20
7	NSS, YRC activities	01

STUDENT ACHIEVEMENT

S.No	Name of the Student	Year	Title of the Event	Organized by (Name of College and Club)
1.	Sivashanmugam M	III/ C	Robo Soccer	Kongu Engineering College
2.	Sivashanmugam M	III/ C	Robo Race	Kongu Engineering College

3.	Thivakar M	III/ C	Nexus 2k24	Vel Tech
4.	Sujanth M	III/ C	Arthasasthra'24	Sns College Of Technology
5.	Sujanth M	III/ C	Centies Championship	Nehru Institute Of Engineering And Technology
6.	Yeashwanth Balaji R	III/ C	Nexus'24	Vel Tech Institution
7.	Karthick R	III/ B	Dhuruva	Karpagam
8.	Kirubakar P	III/ B	Dhruva	Karpagam College Of Engineering
9.	Dharsan S	III/ A	Expelliarmus'24	Kongu Engineering College
10.	Balaji N M	III/ A	Expelliarmus	Kongu Engineering College
11.	Balaji N M	III/ A	Expelliarius	Kongu Engineering College
12.	Velu Maniyam S K	III/ C	Ui Ux Design	Rathinam Group Of Institution
13.	Raghupathi R	III/ B	Line Follower	Dr.Ngp Institute Of Technology
14.	Velu Maniyam S K	III/ C	Ui Ux Design	Sri Krishna Institute Of Technology
15.	Riswandh S S	II / A	Covaities	Krishna Collage Of Engineering And Technology
16.	Akil Krishna T G	II / A	Avanta 2024	Sri Krishna College Of Technology
17.	Divakar R	II / A	Paper Presentation	Hindusthan College Of Engineering
18.	Akil Krishna T G	II / A	Avanta 24	Sri Krishna Institute Of Technology
19.	Nitheesh M	II / B	Line Follower	Kongu Engineering College
20.	Sandhoshkumar B	III/ C	Nexus 2k24	Vel Tech
21.	Nitheesh M	II / B	Line Follower	Kongu Engineering College
22.	Saran S	III/ C	Nexus 24	Vel Tech University
23.	Manikandan R	II / A	I-Sym'24	Hindustan College Of Engineering And Technology

24.	Bhavadharshini S	II / A	Innovsense	KPRIET
25.	Mukesh S	II / B	Line Follower Robot	Hindustan College Of Engineering And Technology
26.	Mukesh S	II / B	Line Follower Robot	Kongu Engineering College
27.	Richard Johnson M	II / B	Line Follower	Hindustan College Of Engineering And Technology
28.	Mukesh S	II / B	Line Follower Robot	Kongu Engineering College
29.	Monika S	II / A	Covai Ties 24	Sri Krishna College Of Engineering And Technology
30.	Sanjai Sree N	II / B	Dhruva'24	Karpagam College Of Technology
31.	Sanjai Sree N	II / B	Kce Dhruva'24	Karpagam College Of Technology
32.	Vidhyasri P	II / B	Dhruva'24	Karpagam College Of Technology
33.	Sri Sundar M K	II / B	Dhruva'24	Karpagam College Of Engineering
34.	Sri Sundar M K	II / B	Kce Dhruva'24	Karpagam College Of Technology
35.	Sanjeyan B	II / B	Kce Dhruva'24	Karpagam College Of Engineering
36.	Nakul Prasath M	II / B	Acumen'24	Kongu Engineering College
37.	Richard Johnson M	II / B	Line Follower	Kongu Engineering College
38.	Richard Johnson M	II / B	Track Your Way	Kongu Engineering College
39.	Vidhyasri P	II / B	Kce Dhruva'24	Karpagam College Of Technology
40.	Subakarini S	II / B	Kce Dhruva'24	Karpagam College Of Engineering
41.	Udaya V	II / B	Kce Dhruva'24	Karpagam College Of Technology
42.	Udaya V	II / B	Dhruva'24	Karpagam College Of Engineering
43.	Sanjeyan B	II / B	Dhruva'24	Karpagam College Of Engineering

44.	Subakarini S	II / B	Dhruva'24	Karpagam College Of Engineering
45.	Bhavadharshini S	II / A	Acumen 2k24	Kongu Engineering College
46.	Jerlinjeba M J	II / A	Nexus 24	Kongu Engineering College
47.	Jaya Dharshini N D	II / A	Womens Day - Volleyball Tournament	Sri Eshwar College Of Engineering
48.	Jaya Dharshini N D	II / A	Covie Ties -2024	Sri Krishna College Of Engineering And Technology
49.	Mabitha V	II / A	Electrotech -2k24	Sri Krishna College Of Engineering And Technology
50.	Karunya Priyadharshini K	II / A	Elektrotech-2k24	Sri Krishna College Of Engineering And Technology
51.	Jaya Dharshini N D	II / A	Electrotech -2k24	Sri Krishna College Of Engineering And Technology
52.	Arjun V	II / A	Mind Maze Escapade	Dr. NGP Institute Of Technology

IIPC ACTIVITIES

INDUSTRY VISITS

- Dr.K.S.Tamilselvan and Dr.S.M.Ramesh visited M/s.Pioneer Circuits and M/s.Faraday Ozone Products Private Ltd, Ganapathy on 02.03.2024 and discussed about student internship and consultancy activities



- Dr.K.S.Tamilselvan, Dr.D.Venugopal, Mr. S. Balamurali and Mr.M.Ramesh Kumar visited M/s. Pamba Water Supplies, Sulur on 13.03.2024 and discussed about consultancy projects in automation



- Mr.G.Pradeep Kumar AP(SLG), M.D.Saranya, AP/ECE and Mr.M.Ramesh Kumar visited M/s.Scanner Electro Lab, Saravanampatty on 09.03.2024 and discussed about the student internship.



- Dr.K.S.Tamilselvan, visited DRDO Life Sciences lab at Bharathiyar University campus on 26.03.2024 and discussed about the collaborative R&D proposals

