SPEKTREM

The Newsletter of Department of Electronics and Communication Engineering

ELECTRONICS & COMMUNICATION ENGINEERING

HoD'S DESK

Dr. RAKESH S
HoD ECE

Department Associations play a very important role in the academic journey of students. The department association activities will help the students to build not only technical skills but also other non-technical skills that cannot be acquired during regular classroom sessions but are important for their career and future. These types of events/activities will help them to build friendship and promote interaction as well as a sense of group responsibility. The students are getting opportunities to develop their leadership qualities, organizational skills, management skills, communication skills etc thereby enabling them to improve their overall personality. I am happy that the ECE department association SPECTRA and its activities for the year 2023-24 were inaugurated on 14th November 2023 and various competitions were conducted as a part of the event.

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Association Activities (SPECTRA)

The department association - SPECTRA inauguration was conducted on 14/11/23 by Mr. B Sathish Kumar, Group Director – CSVUG, LPSC, Valiyamala. As a part of the event, a technical talk on the topic "Chandrayaan and Aditya - L1 Mission" was delivered by honorable guest for about 1 hour.

Various activities have been conducted as a part of SPECTRA'23 which included Technical Quiz, Debugging, Speco and Crossword. The students enthusiastically participated in all these events and won cash prizes for the same. All events were coordinated by respective student coordinators and event coordinators.

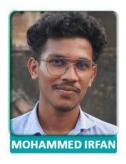| Sl No:	Event	Cash Prize Winners	Class	Cash Prize
1	Quiz	Anu Krishna S, Sai Das	S3 ECE	Rs: 500/-
2	Debugging	Fiza Shaheer	S3 CSE	Rs: 250/-
3	Speco	Sneha Sunil	S3 ECE	Rs: 200/-
4	Crossword	Anand B	S3 ECE	Rs: 200/-

Students Achievements/Activities

1. **Sona Santhosh** of S1 ECE was selected to APJ Abdul Kalam Technlogical University Women Basketball team 2023- '24.

SONA SANTHOSH

KSHETHRA KRISHNA

2. **Mohammed Irfan** and **Kshethra Krishna** of S3 ECE secured 1st prize for Mime in Arts Fest.

MOHAMMED IRFAN

3. **Arathy G** of S3 ECE secured 1st prize for Collage in Arts Fest.

ARATHY G

4. **Padmapriya S** of S3 ECE participated in 3-day residential Bootcamp'23-E3 organized by Gravity Innovation Centre of Mohandas College of Engineering and Technology from 22nd to 24th September, 2023.

PADMAPRIYA S

5. **Padmapriya S** of S3 ECE participated and secured First prize in Recitation English, Second prize in Debate English and First prize in Elocution English conducted by Mohandas College of Engineering and Technology in association with Arts fest on 10th and 11th November, 2023.

6. **Padmapriya S** of S3 ECE secured Third prize in Quiz, conducted ECE dept. in association with SPECTRA'23 at Mohandas College of Engineering and Technology in 14th November, 2023.

7. The following student projects were slected for MCET Research grant 2023-'24:

Batch No.	Name of students	Topic Name	MCET grant details	Guided by
1	Arjun D Kumar Ashutosh Goel Athul Raj R S Parvathy N Pillai	Fire Fighting Robot	RW/23-24/EC/01	Prof. Lekshmi C R
2	Akshay S R Abhinav S B Ameena S	Deldroid	RW/23-24/EC/03	Prof. N Muhsina

8. The following students had attended the Industrial Visit to ICAR-Sugarcane Breeding Institute, Coimbatore on 5th September, 2023.

> A S Abhijith   - S5 ECE
> Padmapriya S   - S3 ECE
> Ganga P B   - S3 ECE
> Sai Das   - S3 ECE

Award of Doctoral Degree

* **Prof. Lekshmi C R** was awarded doctoral degree in Music Signal Processing using Deep Learning Frameworks on the topic: **PREDOMINANT INSTRUMENT RECOGNITION AND SEPARATION IN POLYPHONIC MUSIC USING DEEP LEARNING FRAMEWORKS** on 27/10/2023 under APJ Abdul Kalam Technological University.

Prof. LEKSHMI C R

Journal Publication

* **Lekshmi C R, Rajeev Rajan**, "Predominant Audio Source Separation", Eurasip Journal of Audio Speech and Music Processing, 20232, 49(2023). DOI: 10.1186/s13636-023-00316-4.

FDP/Workshop attended

* **Prof. Deepa D** has successfully completed On-the job training in **Full Stack Python Django with React** at **One Team Solutions**, Thampanoor, Trivandrum from 17/07/2023 to 06/01/2024.

Prof. DEEPA D

Prof. SANDHYA S

* **Prof. Sandhya S** has attended **KTU Coordinators training** at **Gulati Institute of Finance & Taxation (GIFT), Sreekariyam,** Trivandrum on Ist November, 2023.

* Ms. **Priyadarsini K** participated in the 2 days workshop on **Creating Documentaries as Tools for Teaching in Higher Education** organized by The Centre for Education Beyond Curriculum (CEDBEC) CHRIST (Deemed to be University), Bangalore & Eduplus: An initiative of CHRIST (Deemed to be University), Nodal Office, Trivandrum, Kerala held on 28-29 November 2023.

PRIYADARSINI K

Dr. RAKESH S

* **Dr. Rakesh S** participated in the 5 days workshop on **VLSI to System Design: Silicon to End Application Approach** organized by the AICTE ARM Education and ST Microelectronics from 31st July 2023 to 4th August 2023.

Board of Studies - APJ Abdul Kalam Technological University

* **Dr. Rakesh S** is selected as a **Member of Board of Studies (BoS) - Electronics and Communication Engineering** of APJ Abdul Kalam Technological University Thiruvananthapuram.

---Thank you---