Newsletter Dec 2022

From the HOD's Desk

Welcome to the Dept. of ECE, at RSET, Kochi. This newsletter will be covering departmental activities of staff and students and the major milestones achieved .

Electronics and Communication Engineering is one of the most popular courses in the engineering field. As the name suggests, the course complies the concepts from both the communication and the electronic engineering courses.

There is no dearth of good opportunities for an Electronics and Communication Engineer as they can avail job opportunities in a multitude of industries upon successful completion of their degree.
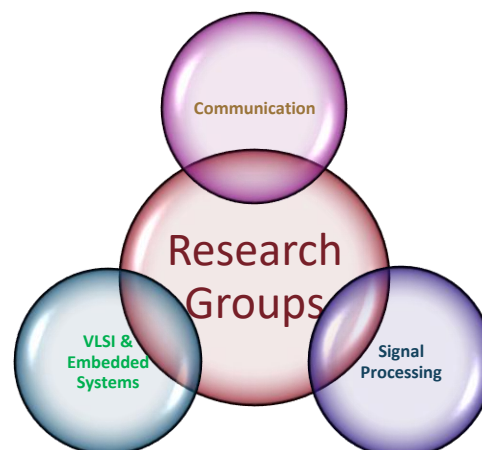
VISION:

To evolve into a premier technological and research institution, moulding eminent professionals with creative minds, innovative ideas, and sound practical skill, and to shape a future where technology works for the enrichment of mankind.

MISSION:

To impart state-of-the-art knowledge to individuals in various technological disciplines and to inculcate in them a high degree of social consciousness and human values, thereby enabling them to face the challenges of life with courage and conviction.

The Way Forward:

Research Groups
- Communication
- VLSI & Embedded Systems
- Signal Processing

About the Department

HOD: Dr. Rithu James

VLSI Research Group: Dr. Jobin K Antony

Communication Research Group: Dr. Jaison Jacob

Signal Processing Research Group: Ms. Harsha A

Editor:

Ms. Deepthy G S

Staff Activities: Mr. Abhishek Viswakumar

Staff Activities Publications: Mr. Ajai V Babu

Student Activities: Mr. Rony Antony

Placement Activities: Mr. Kiran K A

Short Term Courses: Dr.Simi Zerine Sleeba

Lab new S/W & H/W: Ms. Jisa David

Mentoring Activities: Ms. Preethi Bhaskaran

Alumni Activities: Mr. Bonifus P L

Industry Interactions: Mr. Karunakara P Menon

Blessing ceremony of **SIGNALS and SYSTEMS LAB** by our Director **Rev.Dr. Jose Kuriedath CMI.**

Inauguration of Electronauts

The inauguration ceremony of **"Electronauts"** – Association of Department of Electronics and Communication Engineering was held on 1st December 2022, Thursday. The chief guest for the event was Mr. Vinoy Valyath, Senior Solution Director and VLSI Center Head, HCL Technologies, Kochi.

Date: 1st December 2022, Thursday

Venue: Chavara Hall

Time: 3:00 pm to 4:15 pm

Student Coordinators: Ms. Aiswarya Menon, Mr. Richu Pramod (S7 ECE)

Faculty in charge: Ms. Shyama Sreekumar, Ms. Mariya Vincent

Department of Electronics and Communication Engineering

INAUGURATION OF ELECTRONAUTS
(Activities of the year 2022-23)

Chief Guest

Mr. Vinoy Valyath

Senior solution Director and VLSI Center Head.
HCL Technologies, Kochi.

Chavara Hall | **3:00 pm** | **01-Dec-2022**

Rajagiri School of Engineering and Technology (Autonomous), Kakkanad

Inauguration of Electronauts

Hands-on Training with Vega Processor

Electronauts, an association of **the Department of Electronics and Communication** organized a one-day hands-on training with Vega Processor. The participants were familiarized with the processor and its interfacing with different sensors. **Mr. Jaikrishn Jayachandran of S3 ECE Beta** handled the session. Interested students from S3 and S5 ECE participated in the event.

Date: 26th November 2022, Saturday
Time: 9:00 am to 4:00 pm
Venue: Shockley Lab, PG Block, 2nd floor
Student Coordinators: Ms. Aiswarya Menon, Mr. Richu Pramod (S7 ECE)
Faculty in charge: Ms. Shyama Sreekumar, Department of ECE

Hands-on Training with Vega Processor

Technical talk on "Image Signal Processor"

Department of Electronics and Communication Engineering, in association with Placement Cell, organized a technical talk on "Image Signal Processor " by Mr. Alan Paul Joy and Ms. Priyanka, Ignitarium on 25 Nov 2022 (Friday).

Venue: Gallery Hall

Time: 2:15 pm

Targeted Audience: Third year ECE and AEI students and MTech ECE students

Faculty in Charge: Ms. Harsha A , Ms. Ramitha Rajesh

Paper Presentation:

Faculty	Title of paper	Name of Conference
Ms. Neethu Radha Gopan	Performance Analysis of Non-Linear Companding Techniques for PAPR Mitigation in 5G GFDM Systems	4th International Conference on Communication and Intelligent Systems, organized(online mode) by National Institute of Technology, Delhi, Dec 19-20, 2022.(Technically sponsored by Soft Computing Research Society)

Newsletter Dec 2022

The Department of Electronics and Communication Engineering in association with Electronauts is organizing a Product Development Competition for S5 ECE students. The first screening level will be an idea presentation on 6th January 2023.

A group of maximum 4 members should be formed, and all of you should participate compulsorily.

The design should be a relevant project idea using any of these development kits - TMS320C6748 LCDK or OMAP-L138 DSP + ARM Development Kit.

Contents needed:

Abstract (300 words)

Block Diagram

Idea description (ppt)

https://bit.ly/ProducX

Faculty Coordinators: Mr. Abhishek Vishwakumar , Ms. Ramitha Rajesh.

Please fill out the form on or before 3rd January 2023.

More details will be shared by the faculty coordinators.

Idea Presentation for S5 students

RSET
RAJAGIRI SCHOOL OF
ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
ELECTRONAUTS

ProducX

Product Development Competition

Compulsory for S5 ECE students.

Team: Maximum 4 members.

Design should be based on TMS320C6748 LCDK or OMAP-L138 DSP+ARM development kit.

Phase 1 Evaluation : 06-01-2023

Faculty Coordinators :
Ms. Ramitha Rajesh
Mr. Abhishek Viswakumar

Registration:
https://bit.ly/ProducX

Department of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering in association with Electronauts is organizing a Product Development Competition for S3 ECE students. The first level screening will be an idea presentation on 10th January 2023.

A group of maximum 4 members should be formed, and all of you should participate compulsorily. Design should be a socially relevant project idea using any of the development kits - Raspberry Pi, Arduino, Jetson Nano, FPGA, SoC etc.

Contents needed:

• Abstract (300 words)

• Block Diagram

• Idea description (ppt)

You can register through the link given below:

https://bit.ly/PROTOTYPE_Phase1

Please fill out the form on or before 3rd January 2023.

More details will be shared by the faculty coordinators.

Faculty Coordinators: Mr. Rony Antony , Mr. Kiran K.A

Product Development Competition for S3 students