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# ECE HERALD

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## VISION

To produce professionally competent, ethically sound and socially responsible Electronics and Communication Engineers.

## MISSION

M1: Provide excellent infrastructure and lab facilities for quality education.

M2: Promote industry-academic interactions to keep up with technological advancements.

M3: Develop interpersonal skills and social responsibility among students through project-based and team-based learning.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Exemplify technical competence in designing, analyzing, testing and fabricating electronic circuits.

Acquire leadership qualities, rapport, communication skills in the organization and adapt to changing professional and societal needs.

Work effectively as individuals and as team members in multidisciplinary projects

## PROGRAM SPECIFIC OUTCOMES (PSOS)

Define design implement model and test electronic circuits and systems that perform signal processing functions.

Segregate and select appropriate technologies for implementation of a modern communication system.

## PROGRAM OUTCOMES (POS)

**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal, and environmental considerations.

**Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make

**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# EVENTS

## INAUGURATION OF IEEE STUDENT BRANCH AT STM

On December 7, 2023, the IEEE Student Branch of STM was officially inaugurated by Prof. Muhammed Kasim S, Chair of the IEEE Kerala Section. The event was highlighted by a technical talk delivered by Prof. Muhammed Kasim on IEEE standards. His insightful presentation provided valuable knowledge on the importance and application of IEEE standards in the field of engineering and technology.



## INAUGURATION OF IEEE STUDENT BRANCH AT STM

On December 7, 2023, our department participated in a project expo organized by Sree Sankara Vidyapeetam, Mattannur. Our students had the opportunity to showcase their innovative projects and interact with students from various schools in the region. This valuable experience allowed our students to share knowledge and learn from peers, broadening their understanding of the latest field trends.



## **SKILL DEVELOPMENT SESSIONS**

### **LINKEDIN FOR JOB OPPORTUNITIES**

A hands-on workshop on LinkedIn was organized by the T&P Cell for all the registered students of final years of the college on the 13th of November 2023 by Dr. Jayaram V. The aim of the workshop was to familiarize with the features of LinkedIn. This session will guide students on building their professional presence, networking effectively, and leveraging LinkedIn for future career opportunities.

## **STAFF ACHIEVEMENTS**

### **FACULTY DEVELOPMENT PROGRAMS**

- ◆ Ms. Arsha C Dinesh, Ms. Sreetha Sreedhar K, Mr. Nivin V K & Mr. Manu Thomas attended a 3-Day FDP on Practical Aspects of Communication Engineering with Hands – on, organized by ECE Department, VAST.
- ◆ Ms. Arsha C Dinesh & Ms. Athira V attended a 5-Day FDP on Opportunities of Power electronics in Smart grid, renewable energy resources and electric vehicles, organized by EEE Department, SCMS Ernakulam.

### **STUDENT ACHIEVEMENTS**

- ◆ Abhinav Anil S1 ECE was qualified for KTU F-ZONE Volleyball (State Level).

**"THE BEST WAY TO HAVE A GOOD IDEA IS  
TO HAVE A LOT OF IDEAS."**

**- JACK KILBY**

# **EDITORIAL TEAM**

**STAFF COORDINATOR:**

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