

#### **Guest Lecture**

Filtering the Future: Trends in Waveform Generation and Regulation

# **Expert speaker**

Dr. K. Mariammal

**Associate Professor** 

Madras Institute of Technology, Anna University

# **Staff Coordinator**

Rashmi A,

Myvizhiselvi V

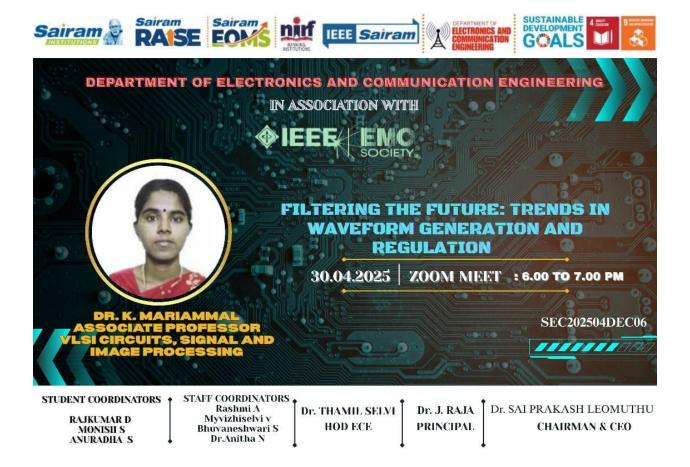
Bhuvaneshwari S

Dr. Anitha N

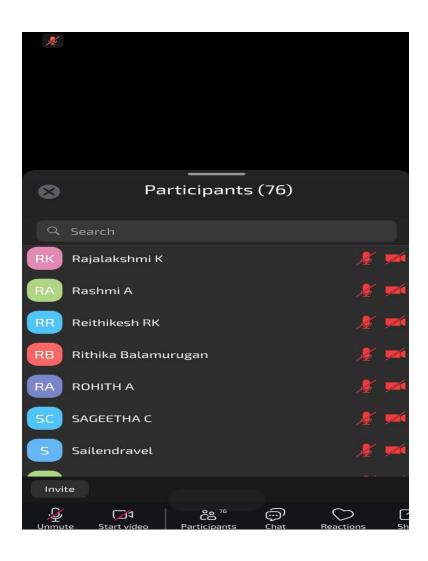
Date and Time: 30th April 2025, 6:00pm to 7:00pm

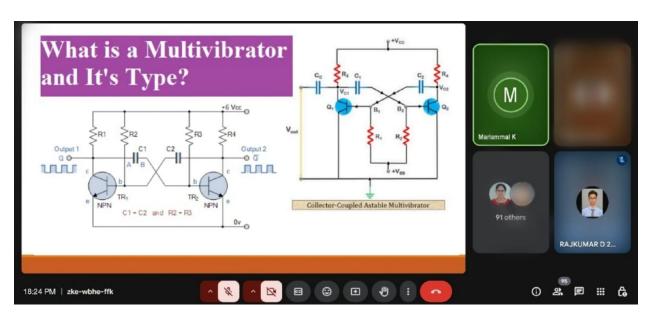
Mode: Online

Event ID: SEC202504DEC06



The Department of Electronics and Communication Engineering organized distinguished guest lecture for 2<sup>nd</sup> year students. Total 95 students attended the guest lecture. This webinar aimed to enlighten students and faculty on the emerging trends and technologies in waveform generation and regulation, especially focusing on VLSI circuits, signal processing, and image processing





Organized by: Department of Electronics and Communication Engineering, Sri Sairam Engineering College, Chennai.

**About the Resource Person** 

Mrs. Mariammal K:

## 1. Experienced Educator & Researcher

Dr. K. Mariammal is a seasoned academician with **over two decades of teaching experience** at one of India's premier institutions—**Madras Institute of Technology, Anna University**. Her expertise spans **VLSI design, signal processing**, and **intelligent systems**, and she has guided numerous students in academic and project-based learning. Her ability to simplify complex technical concepts makes her a highly respected educator among students and peers alike.

### 2. Active Contributor to Research & Professional Development

With **more than 60 publications** in reputed journals and conferences, Dr. Mariammal is an active contributor to the advancement of research in Electronics and Communication Engineering. Her work reflects a deep commitment to innovation and academic excellence. She is also actively involved in professional development initiatives, sharing her knowledge through seminars, workshops, and expert talks, thereby inspiring continuous learning and growth in the engineering community.

### **Event Highlights**

#### **Insightful Session on Waveform Generation & Regulation**

The webinar provided an in-depth understanding of the latest trends and advancements in waveform generation and regulation, focusing on its relevance in modern electronic and communication systems.

#### **Expert Talk by Dr. K. Mariammal**

 Delivered by Dr. K. Mariammal, Associate Professor at MIT, Anna University, the session showcased her extensive knowledge in VLSI circuits, signal processing, and image processing, offering real-world applications and academic insights.

#### **Real-Time Applications & Research Trends**

 Participants were introduced to emerging research areas, industry needs, and practical applications of waveform technologies, with an emphasis on signal integrity and electromagnetic compatibility (EMC).

#### **Interactive Engagement**

• The webinar featured an **interactive Q&A session**, where students had the opportunity to clarify concepts and engage in meaningful discussions with the resource person.

#### **Professional Skill Development**

• The event enabled participants to **enhance their technical understanding**, especially in areas essential for careers in **electronics**, **VLSI**, and **embedded systems**.

### **Organizers**

Staff Coordinators:

Rashmi A, Myvizhiselvi V, Bhuvaneshwari S, Dr. Anitha N

Student Coordinators:

Sakthi Ganesh S, Raj Kumar D, Monish S, Muthu sarbesh K, Ragul A S, Anuradha S

• Management Support:

Dr. J. Thamil Selvi (HOD-ECE)

Dr. J. Raja (Principal)

Dr. Sai Prakash Leo Muthu (Chairman & CEO, Sairam Institutions)

## Conclusion

The session delivered by Dr. K. Mariammal was insightful and informative, offering valuable knowledge on waveform generation and regulation. It enhanced participants' understanding of core electronics and encouraged further interest in advanced signal processing and VLSI applications.