



## **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 : **30<sup>th</sup> April 2025, 6:00pm to 7:00pm**

Mode : **Online**

Event ID : **SEC202504DEC06**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

IN ASSOCIATION WITH




**FILTERING THE FUTURE: TRENDS IN WAVEFORM GENERATION AND REGULATION**

**30.04.2025 | ZOOM MEET : 6.00 TO 7.00 PM**

**DR. K. MARIAMMAL**  
**ASSOCIATE PROFESSOR**  
**VLSI CIRCUITS, SIGNAL AND IMAGE PROCESSING**

SEC202504DEC06



**STUDENT COORDINATORS**

RAJKUMAR D  
 MONISH S  
 ANURADHA S

**STAFF COORDINATORS**

Rashmi A  
 Myvizhiselvi v  
 Bhuvaneshwari S  
 Dr.Anitha N

Dr. THAMIL SELVI  
 HOD ECE

Dr. J. RAJA  
 PRINCIPAL

Dr. SAI PRAKASH LEOMUTHU  
 CHAIRMAN & CEO

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

Participants (76)

Search

- RK Rajalakshmi K
- RA Rashmi A
- RR Reithikesh RK
- RB Rithika Balamurugan
- RA ROHITH A
- SC SAGEETHA C
- S Sailendrael

Invite

Unmute Start video Participants 76 Chat Reactions Share

## What is a Multivibrator and It's Type?

Output 1

Output 2

Collector-Coupled Astable Multivibrator

91 others

RAJKUMAR D 2...

18:24 PM | zke-wbhe-ffk

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. Tamil 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.