

## ABOUT THE COLLEGE

Dr. Mahalingam College of Engineering and Technology (MCET) was established in the year 1998 by Dr. M. MANICKAM with a view to commemorate the 75th birth day of his beloved father Arutchelvar Dr. N. MAHALINGAM with a mission to impart high quality competency based education in Engineering & Technology to the younger generation to acquire the required skills and abilities to face the challenging needs of the industry around the globe. MCET is a self-financing coeducational Autonomous Engineering College and it is approved by All India Council for Technical Education (AICTE), New Delhi & affiliated to Anna University, Chennai. The Institution has been accredited by National Assessment and Accreditation Council (NAAC) with A++ and 7 UG Programmes (CSE, IT, EEE, ECE, Civil, Mech, Auto.) are accredited with Tier-1 by NBA. MCET currently offers 12 UG, 6 PG and 7 doctoral programmes in Engineering, Technology and Science.

## ABOUT THE DEPARTMENT

The department of Electrical and Electronics Engineering was established in 2002 and offers B.E (EEE) and M.E (Embedded System Technologies), Approved by AICTE, affiliated to Anna University, & accredited by the NBA. The department of Electrical and Electronics Engineering offers an excellent atmosphere for students to learn and acquire the necessary skills that are much sought after by the industry. The department has experienced faculty members who are fully committed to teaching and research, and dedicated to impart quality education to the students. The students have access to well equipped, state-of-the-art laboratories. A wide range of research activities undertaken in the department allow the students to gain contemporary knowledge about real-life problems in the industry. Hence the department of Electrical and Electronics Engineering endeavors to provide hands-on education to all of its students. The department has brought out outstanding engineers in the past and will continue its service in the years to come.

### Organizing Committee:

#### Patron:

**Dr.P.Govindasamy**, Principal

#### Co-Patrons:

**Dr.A.Senthil Kumar**, Dean-Academics & Autonomous

**Dr.Ramakrishnan**, Dean-Research & Innovation

**Dr.Calvin Sophistus King**,

Dean-Industry Relations and Talent Development

#### Convenors:

**Dr.K.Vijayakumar**, Professor & Head / EEE

**Dr. M.Kaliamoorthy**, Professor / EEE

**Dr.B. VinothKumar**, Professor / EEE

#### Organizing Secretary:

**Mr. R.Muthubharathi**, AP (SS) / EEE

**Mr. M.Saravanakumar**, AP (SS) / EEE

#### Organizing Members:

**Mr P.E. Kamalakkannan**, AP(SS)/EEE

**Mrs K. Durgalakshmi**, AP(SS)/EEE

**Mr T. Satheskumar**, AP(SS)/EEE

**Mr.L.Hubert Tony Raj**, AP/EEE

**Mr K. Kaleeswaran**, AP/EEE

#### Important Dates:

**Last date for Registration : 15.10.2024**

**Intimation of Selection : 16.10.2024**



Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

# Two Day Workshop on “RTOS PROGRAMMING USING STM32 MICROCONTROLLER”

18.10.2024 – 19.10.2024

Organized by

DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING



## Registration Form

### Two Day Workshop on "RTOS Programming using STM32 Microcontroller" (18.10.2024 – 19.10.2024)

I would like to participate in the workshop

Name :  
Designation :  
Qualification :  
Institution :  
Address :

Mobile No :  
E-mail id :

I declare that the details furnished above are true to the best of my knowledge and belief and agreed to abide by the rules and regulations governing the conduct of the workshop at Dr.Mahalingam College of Engineering & Technology, Pollachi, Tamilnadu.

Signature of Applicant

## SPONSORSHIP CERTIFICATE

Certified that Dr/Prof/Mr/ Ms \_\_\_\_\_ is a bonafide faculty member/Research Scholar of our Engineering College/ University. He /She is permitted to attend the workshop on "RTOS Programming using STM32 Microcontroller". He/She is sponsored to attend this workshop from 18th OCT – 19th OCT 2024.

Place:  
Date:

Signature of Sponsoring  
Authority

## ABOUT WORKSHOP

This two-day workshop on Real-Time Operating Systems (RTOS) using STM32 microcontrollers offers participants a hands-on experience with the latest RTOS techniques. Focusing on FreeRTOS, the workshop covers core concepts such as task management, inter-task communication, and real-time scheduling. Attendees will work with STM32 microcontrollers using the STM32CubeIDE, gaining practical skills in developing and debugging embedded systems. Ideal for students, researchers, and professionals in embedded systems, this workshop bridges the gap between theory and practical application, empowering participants to design robust, real-time embedded solutions

## COURSE CONTENTS

- Introduction to STM32 microcontroller, covering ARM Cortex-M architecture and STM32 family features.
- Setting up and using STM32CubeIDE for peripheral configuration and writing basic programs.
- Hands-on sessions on FreeRTOS, including task management, scheduling, and inter-task communication using queues, semaphores, and mutexes.
- Practical debugging techniques for FreeRTOS applications using STM32CubeIDE

## Resource Persons:

The sessions will be handled by experts from academia and industry in the subject area.

## Who can attend?

Students, Faculty, Research Scholars and others.

## Registration Fee:

Student Participants : Rs.600/-  
Faculty, Research Scholars  
and other Participants : Rs.750/-



## Registration Link:

<https://forms.gle/aQcpLebgJ9YiMXqV7>

## Guidelines:

- Total number of participants is restricted to 50
- Participants will be selected based on first come first serve basis and will be intimated by e-mail only.
- Lunch will be provided during the course.
- Accommodation will not to be provided.
- No TA/DA shall be provided for the participants.

## Address for Communication:

### The Organizing Secretary

Two day Workshop on  
"RTOS programming using STM32  
Microcontroller"

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