



SRM MADURAI

COLLEGE FOR ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

25.07.2024

DETAILS OF WEBINAR

Event Title	Empowering Embedded Systems: Harnessing the Power of FreeRTOS for Seamless Real-Time Operating System Integration
Expert Name & Designation	Dr. I. Abinaya., M.E., Ph.D Freelance Corporate Trainer Tallahassee, Florida, United States.
Mode of Condition	Online
Total No. of Participant	55 Participants
Gist of the Event (Limit 100 Words)	The online program, spanning an hour in duration, attracted more than 55 participants who actively participated in an informative session. The focus was on the significance of the RTOS Integration, offering extensive coverage of its importance in Embedded Systems. The session proved highly enlightening, providing valuable insights to participants, comprising both students and faculty members. They gained a deeper understanding of the RTOS Integration in the technical field. The wealth of knowledge shared made them motivated and inspired.
Participants Feedback (50 Words)	Most of the participants recorded that the information received is new to them and it was really useful. Further, they commented that the webinar was beneficial and they would like to attend this kind of event in the future as well.

POSTER OF THE WEBINAR



SRM MADURAI
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Pottapalayam, Sivagangai District - 630 612



COLLEGE CODE : 9111

COUNSELLING CODE: 5842

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

Organizes a One Day Webinar on

**Empowering Embedded Systems: Harnessing the Power
of FreeRTOS for Seamless Real-Time Operating System
Integration**



Dr. I. Abinaya

Freelance Corporate Trainer
Tallahassee, Florida, United
States

24-07-2024, at 05:00 PM

Hosting Platform : Google Meet

Google Meet Link: <https://meet.google.com/xmh-bheb-gmn>

E-Certificates will be provided for the active participants

We cordially invite all Faculty Members to join the Webinar..!

Coordinator

Dr. M. KARTHIK

Assistant Professor (Sr.G)/EEE

Co-Convener

Dr. C.VIMALARANI

HOD/EEE&ECE

Convener

Dr. S. DURAIRAJ

PRINCIPAL

Registration Form Link

<https://forms.gle/Yoz5yDKjWLxyxyr7>



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+91 7845 776 188

SNAPSHOTS OF THE WEBINAR

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"Empowering Embedded Systems: Harnessing the Power of FreeRTOS for Seamless Real-Time Operating System Integration"

Dr.Abinaya Inbamani

abinaya is presenting

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Karthik lat 19 others

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EMBEDDED SYSTEM STRUCTURE

IoT, AI, II

Input Device → ADC → Processor/DSP → DAC → Output Device

MCU - Processor - Memory - On-chip Peripherals

On-Board Peripherals

Application Layer: The most applications that perform complex operations like image recognition and GPS based operations.

OS Layer: It creates the basic tasks which the device performs and manages them in order to make the system ready to meet the timing constraints.

Hardware Layer: It takes care of the hardware like the microcontroller, ADC, DAC, and other analog and so on based components.

abinaya is presenting

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Madhan Mmk joined

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Why RTOS?

- Designed for real-time applications
- Ensures time-bound and deterministic behavior
- Manages resources efficiently focus on predictability and reliability.

Best RTOS for Embedded System

FreeRTOS, VxWorks, QNX, Micrium µC/OS-II

abinaya is presenting

abinaya Vybha... Darsana

K S SUDHA M... 28 others

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FreeRTOS

FreeRTOS is a class of RTOS that is designed to be small enough to run on a microcontroller - although its use is not limited to microcontroller applications.

<https://www.freertos.org/index.html>

Madhan Mmk joined

abinaya is presenting

abinaya Darsana SUDHA

K Mohan... D... 40 others

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