



School of Electronics Engineering

Department of Embedded Technology

Two Days Workshop



Embedded RTOS

OFFLINE Class @ TT603 (9:00 AM—5:00 PM)

Day 1 (08/03/25): (ONLINE)

- ◆ **Introduction to Operating Systems (OS) & Real-Time Operating Systems (RTOS)**
 - ◆ Differences between OS and RTOS
 - ◆ Key characteristics and applications of RTOS
- ◆ **Core Concepts of Process, Thread, and Task**
 - ◆ Definitions and differences
 - ◆ Task, process, and thread management
- ◆ **Inter process/Task Synchronization**
 - ◆ Binary Semaphore
 - ◆ Counting Semaphore
 - ◆ Mutex



MANDATORY

- ◆ Minimum 50% Marks in Test
- ◆ Minimum 75% attendance



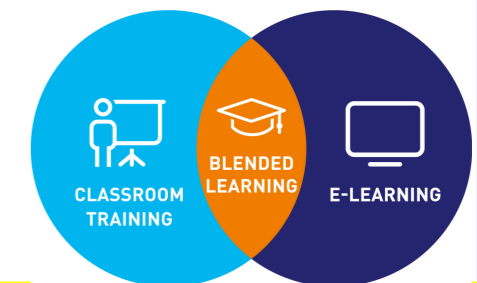
Interesting and Informative Hands On Sessions

Day 2 (09/03/25): (OFFLINE)

- ◆ **Scheduling in RTOS**
 - ◆ Types of scheduling
 - ◆ Scheduling algorithms and techniques
- ◆ **Inter Task Communication**
 - ◆ Message Queue
 - ◆ Pipe
 - ◆ Shared Memory
- ◆ **Memory Management**



**8 & 9th,
March 2025**



Eligible Attendees: UG, and PG Students

Blended Learning

Registration fee: **Rs. 300/-** Inclusive of 18% GST for VITians

Rs. 600/- Inclusive of 18% GST for External Participants

Registration Link: <https://events.vit.ac.in/>

Coordinators

Dr. Shanmugasundaram M 8489696768



mshanmugasundaram@vit.ac.in

Dr. Karthikeyan B

7558121287



bkarthikeyan@vit.ac.in