

4.1 Learning Objectives

After completing this module, students are expected to be able to:

- Understand the importance of synchronization in multi-tasking systems and the risks of race conditions.
- Recognize and implement basic synchronization mechanisms: Mutexes and Semaphores in FreeRTOS.
- Differentiate the appropriate use cases for Mutexes versus Semaphores.
- Identify and understand common problems in concurrent systems: Deadlock, Starvation, and Priority Inversion.

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