CS301
Embedded System and Microcomputer Principle

Lecture 1: Course Information

2024 Fall

Course Information

- Course website: (Blackboard)
- Instructor:
  - Dr. Yuhui BAI (baiyh@sustech.edu.cn)
  - Office: 411 College of Engineering South
  - Office hour: Monday 14:00-16:00 (by appointment)
- QQ group
  - 201447287(password: cs301sustech)
- Lecture:
  - Monday 16:20-18:10
- Lab:
  - Tuesday 10:20-12:10
  - Tuesday 14:00-15:50
  - Thursday 10:20-12:10

Tentative Grading criteria

- In Class Quiz 15%~20%
- Lab participation 10%
  - Lab attendance
- Homework 20%~15%
  - Writing or Programming
- Project 15%
- Final Exam 40%

Prerequisites and Course Objectives

- Prerequisite
  - Be able to write C/Java programs
  - Knowledge of digital circuits, computer organization, assembly language, and electronics is not compulsory but can be helpful
- Objective
  - To understand and hands-on embedded system about architecture, peripheral, timer, counter, interrupt, I/O control and etc.

Lecture Schedule & Textbook

- Schedule
  - Refer to Blackboard->Lecture schedule
- Textbook
  - No Textbooks
  - Reference (available on blackboard):
    - Embedded Systems with ARM Cortex-M Microcontrollers, in Assembly Language and C (4th ed.), Yifeng Zhu
    - Embedded Systems : Architecture, Programming And Design(3rd ed.), Raj Kamal
    - The Definitive Guide to the ARM Cortex-M3 (2nd ed.), Joseph Yiu
    - STM32F103x Datasheet
    - STM32 Reference manual
    - Programming manual