

Mini Project

NMJ21704 Sem 2 2023/2024

General Description

1. A group project.
 - 1 group should HAVE 3-5 students.
 - Members of group can be from different Lab group.
 - 1 group will work on one project title – do not change title after your title is logged in the mini project title.
 - Group project title must not be the same with other group's title. (mini project title log form will be provided)
2. Open end project - you can propose your own project title but must fulfill the minimum requirements of mini project.

Minimum requirements:

- OPTION:
 - Use My1SIM85 simulator program Only.
 - Use MTK-85 board Only.
 - Use both MySIM85 and MTK-85 board.
- 32KB onboard RAM(MTK-85) or 32K RAM on My1SIM85
- OPTION:
 - MTK-85: Use system PPI for accessing onboard IO. Optional: use User PPI for external IO device interface.
 - My1SIM85: Use PPI 8255 at least 4 units.
- Key pad
- At least 4 seven segment
- 4 LED onboard LEDs
- 1 interrupt

3. Assessment – F2F in lab presentation

Method:

- Power point presentation(submit before viva) - 3 minutes
- MTK-85 board demo/ My1SIM85 demo - 5 minutes
- Q&A – 2 minutes

Criteria:

- Theory of basic Microprocessor Architecture.
- Problem analysis, propose solution and use computer programming for application development to solve the problem.
- Microprocessor system design.

Assessment will be guided by a rubric which will be available on elearning.

4. All members must participate in the presentation and demo. Each member must introduce yourself first before continue with presentation. If there is a member of the group do not participate at all, there will be penalty on the overall mark.