

King Fahd University of Petroleum & Minerals
College of Computer Science & Engineering
Department of Computer Engineering

COE 205: Computer Organization and Assembly Language

Sections: 51-52 (Term 043)

Syllabus

Lab Instructor: Masud-ul-Hasan
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Office Hours: S U M T 11:15 AM -12:05 PM (or by appointment)

Grading Policy:

Lab work + Assignments	10%
Project	10%
Total	20%

Lab Experiments

#	Experiment Title
1	Introduction to Assembly Language Programming
2	Introducing the MASM Environment
3	Program Structure and Data Representation
4	Input/Output and Basic Instructions
5	Segmentation and Addressing Modes
6	Array Indexing. Pentium Addressing Modes
7	Arithmetic Instructions
8	Bitwise Instructions
9	Branching Instructions
10	Procedures and Macros
11	String Handling Instructions
12	Interrupts
13	Graphics and Video Memory
14	Using the Mouse
15	Serial Communications

Lab Policy

1. Lab Sessions

- Concepts are explained at the beginning of the lab session.
- In every lab session, a couple of programs are given to the students for learning purposes.
- Students are also assigned a challenging programming problem and are required to finish it during lab time, unless the instructor decides otherwise if the program needs more time.

2. Late Assignments

- Programming assignments are supposed to be finished during lab time.
- Any **late-submitted work** will be ignored and results in a 0 score.

3. How to Prepare

- Study the related material from your class notes and textbook.
- Try to write run and understand the sample programs in the lab manual.
- Should you face any problems see your lab instructor during office hours.
- Also try to understand the assigned programs at the end of the experiment.

4. Absence

- Attendance is mandatory and there will be **1%** deduction for each unexcused absence
- An official excuse must be presented to the instructor no later than one week following the absence.
- Three (**3**) unexcused absences lead to a **DN** grade.
- In case of an absence, a make up can be arranged provided that:
 1. The student has a valid excuse.
 2. Both the student lab instructor and the instructor of the section in which the student is making up his lab mutually agree on the make up.
 3. The mark for that lab is sent by the instructor with whom the student made up the lab with.

5. Lab Project

- A project is assigned in the last quarter of the term.
- The project is worth 10 % of the whole course.
- Save all programs that you develop during the term as these will be used for the project.
- The project will mainly consist of using the programming skills you have learned during the whole course.

6. General Notes

- Cheating is not allowed. Severe measures will be taken by the instructor.
- Any use of the **internet** during lab time is **prohibited and results in zero score** in the lab work.
- Mobile phones **must** be turned off or made silent during the lab session.