

King Fahd University of Petroleum & Minerals
College of Computer Science & Engineering
Department of Computer Engineering
Computer Organization and Assembly Language
COE 205 – 56 (Term 052)
Syllabus

• Lab Instructor

Louai Al-Awami

Location: 23/081-1

Phone: 1348

E-mail: louai@ccse.kfupm.edu.sa

Home Page: <http://www.ccse.kfupm.edu.sa/~louai>

Office Hours: Saturday & Tuesday 1:00-2:00 A.M (Also by appointment)

• Grading Policy:

Lab work	8%
Quizzes	4%
Project	8%
Total	20%

• Lab Experiments

#	Experiment
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

- A pop-up quiz might be given at the first 10 minutes of any lab; it will be based on the pre lab of the current experiment.
- 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.
- If you run out of time, you can send your assignment to the following email address: louai@ccse.kfupm.edu.sa or through the WebCT as required by the lab instructor.
- Any **late-submitted work** will be marked out of 5 rather than 10.

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

- Three (3) unexcused absences lead to a DN grade.
- An official excuse must be presented to the instructor no later than one week following the absence.
- Attendance is mandatory and there will be **1%** deduction for each unexcused absence
- **In case of absence, a make up can be arranged provided that:**
 1. **The student has a valid excuse.**
 2. **The consent of the two lab instructors.**

5. Lab Project

- A project is assigned during the second half of the term.
- The project is worth 8 % 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 in assembly.

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.