Course Specification

CIS 225

Assembly programming language

1431/1432

Course Specification

Institution: AL Majmaah University

College/Department : al Zulfi collage of science

A- Course Identification and General Information

1. Course title and code: Assembly programming language / CIS 225
2. Credit hours: 3
4. Name of faculty member responsible for the course: Sami Smadi
5. Level/year at which this course is offered: 3th
6. Co-requisites for this course (if any): CIS 345
7. Location if not on main campus

B- Objectives

1. Summary of the main learning outcomes for students enrolled in the course.   On completion of this course the students are expected   • Given a PC-based system, identify the major component, describe the steps involving in assembling, linking, and executing a program.   • Given a request to perform a certain task (for example: keyboard inputs, screen outputs, perform arithmetic, sorting), write programs in assembly language to perform the given task and run them   • After writing programs in assembly language, trace machine execution as an aid in program debugging.

C- Course Description (Note: General description in the form to be used for the Bulletin or Handbook should be attached)

1. Topics to be Covered

List of Topics	No of Weeks	Contact hours
Introduction	1	3
Representation of numbers	1	3
Data Organization	2	6
System organization	2	6
The 8086 CPU organization	2	6
8086 commands	6	18

2. Course components (total contact hours per semester):				
Lecture: 42	Tutorial: 14	Laboratory:	Practical/Field work/Internship	Other:

3. Additional private study/learning hours expected for students per week. (This should be an average :for the semester not a specific requirement in each week)

4. Schedule of Assessment Tasks for Students During the Semester

D- E Learning Resources.

1. Required Text(s)

IBM PC Assembly Language and Programming " , Peter Abel , 1998

2. Essential References

Assembly language programming and organization of the IBM

PC by Ytha Y. Yu
3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)
4-.Electronic Materials, Web Sites etc
5- Other learning material such as computer-based programs/CD, professional standards/regulations

E- Assessment

First Exam 15%
Second Exam 15%
Practical 10%
Final 60%