

Kingdom of Saudi Arabia
Ministry Of Higher Education
Majmaah University
Deanship of Quality assurance
and Human Development



Course Specification

(Summary)

1431/1432

Course Specification

Institution : Majmaa University
Computer Science: College/Department

A- Course Identification and General Information

1. Course title and code: Computer Architecture CIS- 126-Z
2. Credit hours: 3
4. Name of faculty member responsible for the cours: Science- Zulfi
5. Level/year at which this course is offered: level 3
6. Co-requisites for this course (if any): Logic Design CIS 111
7. Location if not on main campus: classes

B- Objectives

1. Summary of the main learning outcomes for students enrolled in the course.

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
• Processor/memory performance metrics	2	6
• MIPS instruction set architecture	3	9
• Computer Arithmetic and Floating point representation.	2	6
• Data path and control of single cycle machines.	2	6
• Data path and control of pipeline machines	2	6
• Caches and Memories	2	6
• I/O Interfacing	2	6

2. Course components (total contact hours per semester):				
Lecture: 42	Tutorial:	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): M. Moris Mano "Computer System Architecture"
2. Essential References: David A. Patterson " Computer Organization and Design",
3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)
4-.Electronic Materials, Web Sites etc.: any tutorial web site
5- Other learning material such as computer-based programs/CD, professional standards/regulations

E- Assessment

Quizzes 5%

First Test: 15%

Second Test: 15%

Reports: 5%

Final Test 60%