Princess Sumaya University of Technology
Computer Engineering Department
22541: Computer Architecture
Fall 2010

Instructor	Dr. Gheith Abandah
Email	g.abandah@psut.edu.jo
Homepage	http://www.abandah.com/gheith
Office	EE 448
Office Hours	Sun 12:00 -1:00, Mon 11:30-12:30, and Thu 10:00-11:00
Prerequisites	22341: Computer Organization
Time and Room	Mon and Wed 8:00-9:30 in Room EE 343
Textbook	Patterson and Hennessy. Computer Organization & Design: The Hardware/Software Interface, 4th ed., Morgan Kaufmann, 2009.
References	1. Hennessy and Patterson. Computer Architecture: A Quantitative Approach, 4th ed., Morgan Kaufmann, 2007. 2. J. Hayes. Computer Architecture and Organization, 3rd ed., McGraw-Hill, 1998. 3. M. Mano. Computer System Architecture, 3rd ed., Prentice Hall, 1993.

Grading

First Exam	25%
Second Exam	25%
Two Homeworks	10%
Final Exam	40%

Policies

- Attendance is required.
- All submitted work must be yours.
- Cheating will not be tolerated.
- Homeworks are due on the 1st and 2nd exams dates.
- This course requires significant effort.

Tentative Outline

- Introduction
- Measuring and Summarizing Performance   (1.4-1.10)
- Advanced Instruction-Level Parallelism   (4.10-4.15)

First Exam

- Memory Hierarchy   (5.1-5.13)
- Storage and I/O   (6.1-6.14)

Second Exam

- Multicores, Multiprocessors, and Clusters   (7.1-7.14)

Final Exam