

Al-Al Bayt University
Prince Hussein bin Abdullah Faculty of Information Technology
Information Systems

Course Title :Organization of Computer Systems

Course Number :902220

Credit Hours :3

Pre requisite :901131

Placement :

Instructor: w_qassas@aabu.edu.jo Sunday, Tuseday, Thursday 10:00-11:00, or by appointment,

Course Description :

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General objectives :

The Course objectives are to make the student familiar with the computer hardware, to know how does the electrons do the job for him as a programmer, to understand the system limitation, to understand the concept of assembly language, and machine code, and their relation with high level language, to recognize on how different numbering systems and data types are presented in 0's and 1's format

Course outline :

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Chapter 1

Computer System: Layers of Abstraction

From Theory to Practice

Chapter 3

Digital Logic Structures

Chapter 2

Bits, Data Types, and Operations

Chapter 4

The Von Neumann Model

Chapter 5

The LC-2 computer

Instruction Set Architecture (ISA)

Chapter 6

Programming

Problem analysis and transformation to a computer language

Debugging & testing

Chapter 7

Assembly Language

LC-2 Case study

Assembly programming structures.

Chapter 8

Input/Output

how does it work in assembly

Evaluation methodology :

First Exam.....15

Second exam.....15

Lab experiments.....10

Lab Practical Exam.....10

Final Exam.....50

References :

*Introduction to computing systems/yale&Pattsecond edition, McGrawHill (2001),

*Logic and Computer Design Fundamentals2nd edition, Prentice Hall,M. Mano

*Introduction to Computing Systems From Bits and Gates to C and Beyond 2nd Edition, McGrawHill,N.

Patt &Sanjay J. Patel/

Course Schedule :

Topic_____ **Hours**

No Information Available...