Introduction to Computers Course Specifications

Faculty: Computer and Informatics
Department: Computer Science

Program(s) on which the course is given	:	Bachelor in Computer and Information Sciences
Major or Minor element of programs	:	All majors
Department offering the program	:	Computer Science
Department offering the course	:	Computer Systems
Academic year / Level	:	1st Year / B.Sc.
Date of specification approval	:	19/11/2009

A. Basic Information

Title: Introduction to Computers **Code:** CHW 160

Lectures: 4 hrs/week **Practical: 4** hrs/week **Tutorial: ---**

Credit Hours: --- **Total: 8** hrs/week

B. Professional Information

1. Overall Aims of Course:

One of the objectives of this course is to be computer literate: knowing the history of computers, categories of Computer systems, components of computer systems (Hardware [input, processing, storage, output, and communications devices], Software [Systems as well as applications SW]), terminology of the IT domain,…., etc.),. The course also aims to acquire the knowledge necessary for being a computer professional: An introduction to Programming languages, Algorithms and flow charts, Main elements in Programming languages, Mathematical expressions, I/O statements, Loops, Logical expressions and Branching.

2. Intended Learning Outcomes of Course (ILOs):

a. Knowledge and Understanding:

a1- Enumerate the terminology and concepts of the IT field.

a2- Understand the theories of Number Systems and binary coding schemes.

a3- Summarize computer system components and their functions.

a4- Illustrating the Concepts of Programming languages.

b. Intellectual Skills:

b1- Interpret how data is represented, stored and displayed.

b2- Criticize the different theories of how processing occurs.

b3- Interpret the classifications of Networking and resource sharing and

management.

c. Professional and Practical Skills:

c1- Use instruments that help in mastering DOS and WINDOWS.

c2- Master MSOFFICE (WORD, EXCEL, AND POWER POINT).

c3- Design very simple and primitive programs using C++.

d. General and Transferable Skills:

d1- Manipulate MSOFFICE to write a report, create a spread sheet, and prepare a presentation.

d2- Manipulate HTML to create a HomePage; and to effectively use the Internet.

d3- Discuss the concept of programming.

e. Attitude:

e1- A knowledge and respect of ethics and ethical standards in relation to a major area of study.
e2- Relationship Emphasis a successful with other students.
e3- Learn how to make relation with other, and the limit of this relation.

3. Contents:

Topic	No. of hours	Lecture	Tutorial/Practical
An Overview	8	4	4
Computer Systems	8	4	4
Input Hardware	8	4	4
Processing Hardware (I)	8	4	4
Processing Hardware (II)	8	4	4
Storage Hardware (III)	8	4	4
Output Hardware	8	4	4
Communications Hardware	8	4	4
Systems Software	8	4	4
Applications Software	8	4	4
Programming Fundamentals (I)	8	4	4
Programming Fundamentals (II)	8	4	4
Programming Fundamentals (III)	8	4	4
Programming Fundamentals (IV)	8	4	4