Computer engineering courses (CC)

CC 111- Introduction to Computer Science

Hour: Lecture: 2 Hrs.   Tutorial: 2 Hrs.   Credit: 3.
Coordinator: Rowayda Sadek

Text Book:
- Charles S. Parker, Deborah Morley, "Understanding Computers Today and Tomorrow", Course Technology 2009, latest edition.

Specific course information
a. This course provides an introduction to computers and computing .Topics of interest include the impact of computers on society, ethical issues, and hardware /software applications, including internet applications, system unit, storage and input/output devices, numbering systems, system and application software, presentation skills, program development, programming languages, and flow charts, Visual Basic, web page design using HTML, and communications and networks**.**
b. Prerequisite: none
c. Designation: Required

Specific goals for the course:
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global , economic, environmental, and societal context A recognition of the need for, and an ability to engage in life-long learning.

Course instruction outcomes:
- The students must have a general understanding of what computers are and how they operate.
- The students must have good skills in using windows, MS PowerPoint, HTML and Visual Basic.
- The students must learn problem solving techniques and program development.
- The student should know the available programming languages and their capabilities.

Student outcomes:
C, F, G, H

Topics Covered:

- Introduction to the World of Computers Input and Output.
- The System Unit: Processing and Memory.
- Storage and Input/Output Devices
- System Software and Application Software
- Program Development, Programming Languages, and Flow charts
- Visual Basic 1
- Visual Basic 2
- Visual Basic 3
- Web page design using HTML 1
- Web page design using HTML 2
- Communications and Networks 1
- Communications and Networks 2
- Ethics, Computer Crime, Privacy, and other Social Issues

Course / credit hours	Math & Basic Sciences	Engineering Topics	General Education
Introduction to Computer Science/3	1	2	