

CC 111- Introduction to Computer Science

CREDIT HOURS

3 Hours

CONTACT HOURS (Hours/week)

Lecture: 2; Tutorial/ Lab: 2

COURSE COORDINATOR

Dr Rowaida Sadek

TEXT BOOK:

Charles S. Parker, Deborah Morley, “Understanding Computers Today and Tomorrow”, Course Technology 2009, latest edition.

COURSE DESCRIPTION:

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.

PREREQUISITE:

None

RELATION OF COURSE TO PROGRAM:

Required

COURSE INSTRUCTION OUTCOMES:

The student is able to identify computer hardware components and their specifications and types, as well as use Windows, MS PowerPoint, HTML, and Visual Basic. The student also gains knowledge in using the numbering systems.

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

CONTRIBUTION OF COURSE TO MEET THE REQUIREMENTS OF CRITERION 5:

Professional Component Content			
Math and Basic Sciences	Engineering Topics	General Education	Engineering Design
	✓		

RELATIONSHIP OF COURSE TO STUDENT OUTCOMES:

Student Outcomes		Course Outcomes
a.	An ability to apply knowledge of mathematics, science, and engineering.	✓
b.	An ability to design and conduct experiments, analyze and interpret data.	✓
c.	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.	
d.	An ability to function on multi-disciplinary teams.	✓
e.	An ability to identify, formulate, and solve engineering problems.	
f.	An understanding of professional and ethical responsibility.	
g.	An ability to communicate effectively.	✓
h.	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, a	
i.	A recognition of the need for, and an ability to engage in life-long learning.	✓
j.	A knowledge of contemporary issues within and outside the electrical engineering profession.	
k.	An ability to use the techniques, skills, and modern engineering tools necessary for electrical engineering practice.	