



Arab Academy for Science, Technology & Maritime Transport
 College of Engineering & Technology
 Department of Computer Engineering

University/Academy: Arab Academy for Science, Technology & Maritime Transport
Faculty/Institute: College of Engineering & Technology
Program: B.Sc. Mechanical Engineering

**Form no. (12)
 Course Specification**

1- Course Data

Course Code: CC 111	Course Title: Introduction to Computers	Academic Year/Level: 1 th year / 1 th semester	
Specialization:	No. of Instructional Units	Lecture	Practical
	3 Credits	2hrs.	2hrs.

2- Course Aim

- 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

3- Intended Learning Outcome

a- Knowledge and Understanding	<ul style="list-style-type: none"> • K2.Study basic information s of computers and different types of computers and uses • K 11. Discussing economical uses of computers • Uses of computer in different areas of life • K2. Learning and discussing processor and different memory unit • K 17. Studying recent types of processing units and memory • K2. Study size and types of storage ,input and output devices • K 16. Studying Different types of storage media • K1.Converting between different numbering systems • K 16. Knowing software and applications such as images, graphics...etc • K 6. Using flowcharts for solving different types of problems • K 6. Visual basic language code to make small programs • K 6. Studying HTML language code to design web pages • K 12. Studying HTML language to design web pages • K2. Learning basics of network and network types and topologies. • K 8. Discussing uses of networks in different areas • K 17. Learning different types of networking used in real world • K 11. Studying ethics of uses of IT technologies • K 9. Learn the ethics of how to deal with others entities in the technology world and other users • K 11. Discussing the developments computer world and its effect on the different environmental • K 17. Studying the effect of computer role in the real world and business world
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b- Intellectual Skills	
c- Professional Skills	P1.Studying mathematical of converting between different numbering systems P1. Studying how to design flowcharts used to solve different problems P1.use visual basic to convert flowchart to a real program.
d- General Skills	G3.how to deal with computer and the use of the computers in real world G3. Discussion of different ethics and computer crimes.

4- Course Content

Week 1.	Introduction to the World of Computers Input and Output
Week 2.	The System Unit: Processing and Memory
Week 3.	Storage and Input/Output Devices
Week 4.	System Software and Application Software
Week 5.	Quiz 1 + Program Development, Programming Languages, and Flow charts
Week 6.	Visual Basic 1
Week 7.	7th Week Exam
Week 8.	Visual Basic 2
Week 9.	Visual Basic 3
Week 10.	Quiz 2 + Web page design using HTML 1
Week 11.	Web page design using HTML 2
Week 12.	12th Week Exam
Week 13.	Communications and Networks 1
Week 14.	Communications and Networks 2
Week 15.	Ethics, Computer Crime, Privacy, and other Social Issues

5-Teaching and Learning Methods

<ul style="list-style-type: none"> • Lectures Powerpoints • Class discussions • Library/Internet searches

6- Teaching and Learning Methods for Students with Special Needs

<ul style="list-style-type: none"> • Personalized teaching is available for special needs students and an academic advisor is appointed to follow up with these students and to monitor progress

7- Student Assessment:

a- Procedures used:	<ul style="list-style-type: none"> • Assignments • Quizzes • Midterm written exam (7th, 12th) • Practical exam • Final written exam 								
b- Schedule:	<ul style="list-style-type: none"> • Quizzes (6th and 11th) • Practical exam (14th) • Final written exam 								
c- Weighing of Assessment:	<table> <tr> <td>7th Week Examination</td> <td>30 %</td> </tr> <tr> <td>12th Week Examination</td> <td>20 %</td> </tr> <tr> <td>Final-term Examination</td> <td>40 %</td> </tr> <tr> <td>Oral Examination</td> <td>0 %</td> </tr> </table>	7 th Week Examination	30 %	12 th Week Examination	20 %	Final-term Examination	40 %	Oral Examination	0 %
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12 th Week Examination	20 %								
Final-term Examination	40 %								
Oral Examination	0 %								

	Practical Examination	0 %
	Semester Work	10 %
	Total	100%

8- List of References:

a- Course Notes	
b- Required Books (Textbooks)	Charles S. Parker, Debora Morley, "Understanding computers today and tomorrow ", Course Technology 2009, latest edition
c- Recommended Books	-Cashman, Shelly, Wood, and Dorin, "HTML: Complete concepts and technologies", Thomson course technology, latest edition. -Peter Norton, "Introduction to computers", McGraw Hill, Latest edition. - Robert J. Spear and Timothy M. Spear, "Introduction to computer programming in visual basic 6.0", Tomson Learning, Latest edition
d- Periodicals, Web Sites, ..., etc.	

Course coordinator:

Program Manager: