



"الريادة والأبداع في الأعمال"
"Entrepreneurship and
Innovation in Business"

جامعة الزيتونة الأردنية
Al-Zaytoonah University of Jordan
كلية الأعمال
Faculty of Business



"عراقة وجودة"
"Tradition and Quality"

	Detailed Course Description - Course Plan Development and Updating Procedures/ Management Information System Department	QF05/0408-3.0E
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Faculty	Business	Department	Management Information System
Course number	0506311	Course title	Computer programming for Business
Number of credit hours	3	Pre-requisite/co-requisite	--

This course provides an introduction to scientific programming using c++ programming language. Students will analyze a wide variety of scientific & business problems, construct appropriate c++ programs for solving these problems, compile & debug the problems & running the code.

	Course goals and learning outcomes
Goal 1	List the major elements of the .NET Framework and explain how C# fits into the .NET Platform.
Learning outcomes	1.1 Distinguish between the different types of applications that can be created with C# 1.2 Learn about installing the .NET Framework 1.3 Become aware of how C# and .NET evolved and fit together
Goal 2	Analyze the basic structure of a C# application and be able to document, debug, compile, and run a simple application.
Learning outcomes	2.1 Examine the basic elements of a C# program 2.2 Explore a program written in C# 2.3 Compile, run, and build an application
Goal 3	Create, name, and assign values to variables.
Learning outcomes	3.1 Eliminate the reference to Out by using the System namespace 3.2 Write and compile a C# program using the command prompt and using Visual Studio 3.3 Learn alternate ways to write the Main() method
Goal 4	Create, initialize, and destroy objects in a C# application
Learning outcomes	4.1 Declare memory locations for data 4.2 Explore the relationship between classes, objects, and types 4.3 Use predefined data types <ul style="list-style-type: none"> • Use integral data types • Use floating-point types • Learn about the decimal data type • Declare Boolean variables
Goal 5	Build new C# classes from existing classes.
Learning outcomes	5.1 Become familiar with the components of a method 5.2 Call class methods with and without parameters 5.3 Use predefined methods in the Console and Math classes 5.4 Learn about the different methods and properties used for object-oriented development
Goal 6	Define operators, use delegates, and add event specifications.
Learning outcomes	6.1 Write assignment statements using arithmetic operators 6.2 Learn about the order of operations



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Goal 7	Statements and Exceptions
Learning outcomes	7.1 Learn about conditional expressions that return Boolean results and those that use the bool data type 7.2 Examine equality, relational, and logical operators used with conditional expressions 7.3 Write if selection type statements to include one-way, two-way, and nested forms 7.4 Learn about and write switch statements
Goal 8	Repeating Instructions
Learning outcomes	8.1 Learn why programs use loops 8.2 Write counter-, state-, and sentinel-controlled while loops 8.3 Examine the conditional expressions that make up a for loop 8.4 Compare the do...while looping structure with the predefined forms of loops 8.5 Write loops nested inside other loops 8.6 Learn about keywords that can be used for unconditional transfer of control
Textbook	1. Visual C# how to program, H.M. Deitel, P.J.Deitel, J.Listfield, T.R. Nieto, C.Yaeger, and M.Zlatkina, Prentice Hall, 2011 2. Building.Net Applications, Programming C#, J. Liberty, O'REILLY, 2002
Supplementary references	--

Course timeline				
Week	Number of hours	Course topics	Pages (textbook)	Notes
01	1 1 1	Overview of the Microsoft .NET Platform Introduction to the .NET Platform Overview of the .NET Framework Benefits of the .NET Framework The .NET Framework Components Languages in the .NET Framework	44-33	1
02	1 1 1	Overview of C# Structure of a C# Program Basic Input/Output Operations Recommended Practices Compiling, Running, and Debugging	80-59	2و1
03	1 1 1	Using Value-Type Variables Common Type System Naming Variables Using Built-In Data Types Creating User-Defined Data Types Converting Data Types	95-75 638-632	3و2
04	1 1	Statements and Exceptions Introduction to Statements	124-95	4



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	1	Using Selection Statements Using Iteration Statements Using Jump Statements Handling Basic Exceptions Raising Exceptions		
05	1 1 1	Methods and Parameters Using Methods Using Parameters Using Overloaded Methods	223-178	5
06	1 1 1	Arrays Overview of Arrays Creating Arrays Using Arrays	250-236	6
07	1 1 1	Essentials of Object-Oriented Programming Classes and Objects Using Encapsulation C# and Object Orientation Defining Object-Oriented Systems	333-280	7
08	1 1 1	Using Reference-Type Variables Using Reference-Type Variables Using Common Reference Types The Object Hierarchy Namespaces in the .NET Framework Data Conversions	272-253	8 و 7
09	1 1 1	Creating and Destroying Objects Using Constructors Initializing Data Objects and Memory Resource Managements	347-343 391-382	9
10	1 1 1	Inheritance in C# Deriving Classes Implementing Methods Using Sealed Classes Using Interfaces Using Abstract Classes	377-242	10
11	1 1 1	Aggregation, Namespaces, and Advanced Scope Using Internal Classes, Methods, and Data Using Aggregation Using Namespaces Using Modules and Assemblies	295-285	11
12	1 1 1	Operators and Events Introduction to Operators Operator Overloading Creating and Using Delegates Defining and Using Events	484-426	12
13	1 1	Properties and Indexers Using Properties	1480 و 230 1484	13



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	1	Using Indexers		
14	1 1 1	Attributes Overview of Attributes Defining Custom Attributes Retrieving Attribute Values	1381 و 843 1433 و 125	14
15	1 1 1	Project/Case building		
16	1 1 1	Project/case building		

Theoretical course evaluation methods and weight	Participation = 10% First exam 20% Second exam 20% Final exam 50%	Practical (clinical) course evaluation methods	Semester students' work = 50% (Reports, research, quizzes, etc.) Final exam = 50%
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Approved by head of department		Date of approval	
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Extra information (to be updated every semester by corresponding faculty member)

Name of teacher		Office Number	
Phone number (extension)		Email	_____@zug.edu.jo
Office hours			