

جامعة الزيتونة الأردنية Al-Zaytoonah University of Jordan





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QF05/0408-4.0	Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Management
E	Information Systems Department

Study plan	2021/2022		University Specialization		MIS	
No.						
Course No.	0506335		Course name		Programming Basics	
Credit	3		Propagnicita/ Co rea	anisita	-	
Hours			Prerequisite/ Co-rec	quisite		
Course	□ MANDATORY	□ UNIVERSITY	□ FACULTY	□ Support	✓Mandatory	□ Elective
type	UNIVERSITY REQUIREMENT	ELECTIVE REQUIREMENTS	MANDATORY REQUIREMENT	course family requirements	requirements	requirements
Teaching style	☐ Full online lear	rning	☐ Blended learn	ing	✓ Tradition	al learning
Teaching model	☐ 1 Synchronous: 1 asynchronous		□ 1 face to face : 1	1 asynchronous	✓2 Traditio	nal

Faculty member and study divisions' information (to be filled in each semester by the subject instructor)

Name	Academic rank	Office No.	Phone No.	E-mail	
Division number	Time	Place	Number of students	Teaching style	Approved model

Brief description

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.

Learning resources

Learning resources				
Course book information	C# for programmers, I	Paul Deitel, Harvey De	itel, 6th edition, Prentice	e Hall, 2016.
(Title, author, date of issue,				
publisher etc.)				
Supportive learning resources	1- Visual C# ho	w to program, H.M. D	eitel, P. J. Deitel, J. Listf	field, T. R. Nieto, C.
(Books, databases,	Yaeger, and I	M. Zlatkina, Prentice F	Iall, 2011.	
periodicals, software,	2- Building.Net	Applications, Program	ming C#, J. Liberty, O'F	REILLY, 2002
applications, others)				
Supporting websites				
The physical environment for	☐ Class	√labs	☐ Virtual	☐ Others
teaching	room		educational	
			platform	
Necessary equipment and	Microsoft Visual C# 2	010 Express		
software				
Supporting people with				
special needs				
For technical support		·		_



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Course learning outcomes (S = Skills, C = Competences K = Knowledge,)

No.	Course learning outcomes	The associated program learning output code
	Knowledge	
K 1	Introduce and List the major elements of the .NET Framework and explain how C# fits into the .NET Platform.	MK1
K2	Analyze the basic structure of a C# application and be able to document, debug, compile, and run a simple application.	MK2
K3	Defining the ways to create, name, and assign values to variables.	MK3
K4	Defining the ways to Create, initialize, and destroy objects in a C# application	MK1
	Skills	
S1	Explaining how to build new C# classes from existing classes.	MS2
S2	Defining operators, use delegates, and add event specifications.	MS1
S3	Declaring Statements and Exceptions	MS1
S4	Demonstrate Repeating Instructions	MS2
	Competences	
C1	Knowing the C# instructions.	MC2
C2	Knowing the C# processes.	MC2
C3	Knowing the fundamentals of the C# programming language.	MC2

Mechanisms for direct evaluation of learning outcomes

Type of assessment / learning style	Fully electronic learning	Blended learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
Midterm exam		30%		
Participation / practical applications		0		
Asynchronous interactive activities		30%		
Final exam		40%		

Note 1: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

Note 2: According to the Regulations of granting Master's degree at Al-Zaytoonah University of Jordan, 40% of final evaluation goes for the final exam, and 60% for the semester work (examinations, reports, research or any scientific activity assigned to the student).



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Schedule of simultaneous / face-to-face encounters and their topics

Week	Subject	learning style*	Reference **
1	Overview of the Microsoft .NET Platform	Lecture	44-33
•	Introduction to the .NET Platform		11.33
	Overview of the .NET Framework		
	Benefits of the .NET Framework		
	The .NET Framework Components		
	Languages in the .NET Framework		
2	Overview of C#	Lecture	80-59
_	Structure of a C# Program		
	Basic Input / Output Operations		
	Recommended Practices		
	Compiling, Running, and Debugging		
3	Using Value-Type Variables	Lecture	95-75و 638-632
J	Common Type System		030 032 373 73
	Naming Variables		
	Using Built-In Data Types		
	Creating User-Defined Data Types		
	Converting Data Types		
4	Statements and Exceptions	Lecture	124-95
4	Introduction to Statements	Lecture	124-33
	Using Selection Statements		
	Using Iteration Statements		
	Using Jump Statements		
	Handling Basic Exceptions		
	Raising Exceptions	7	100 100
5	Methods and Parameters	Lecture	223-178
	Using Methods		
	Using Parameters		
	Using Overloaded Methods		
6	Arrays	Lecture	250-236
	Overview of Arrays		
	Creating Arrays		
	Using Arrays		
7	Essentials of Object-Oriented Programming	Lecture	333-280
	Classes and Objects		
	Using Encapsulation		
	C# and Object Orientation		
	Defining Object-Oriented Systems		
8	Using Reference-Type Variables	Lecture	272-253
	Using Reference-Type Variables		
	Using Common Reference Types		
	The Object Hierarchy		
	Namespaces in the .NET Framework		
	Data Conversions		
9	Creating and Destroying Objects	Lecture	391-382و 391-343
	Using Constructors		
	Initializing Data		
	Objects and Memory		
	Resource Managements		
10	Inheritance in C#	Lecture	377-242
	Deriving Classes		1
	Implementing Methods		
	Using Sealed Classes		
	Using Interfaces		
	Using Abstract Classes		
11	Aggregation, Namespaces, and Advanced	Lecture	295-285
11	Scope	Lociuic	233-20J



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	Using Internal Classes, Methods, and Data Using Aggregation Using Namespaces Using Modules and Assemblies		
12	Operators and Events Introduction to Operators Operator Overloading Creating and Using Delegates Defining and Using Events	Lecture	484-426
13	Properties and Indexers Using Properties Using Indexers	Lecture	230و 1484و 1484
14	Attributes Overview of Attributes Defining Custom Attributes Retrieving Attribute Values	Lecture	843و 1381و 125و 1433
15	Project/case building	Lecture	
16	Project/case building	Lecture	

^{*} Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

** Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.

Schedule of asynchronous interactive activities (in the case of e-learning and blended learning)

Week	Task / activity	Reference	Expected results
1	Knowing how to deal with Microsoft		
	Visual C#.		
2	Write a C# program to input multiple		
	operations		
3	Using Built-In Data Types		
4	Creating User-Defined Data Types		
5	Converting Data Types		
6	Using Selection Statements		
7	Using Selection Statements		
8	Using Iteration Statements		
9	Using Iteration Statements		
10	Using Jump Statements		
11	Using Methods		
12	Using Parameters		
13	Creating Arrays		
14	Using Arrays		
15	Project/case building		
16	Project/case building		