

جامعة الزيتونة الأردنيسة Al-Zaytoonah University of Jordan





QF05/0408-4.0 E		Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Management Information Systems Department				
Study plan	2021/2022		University Spe	ecialization	MIS	
Course No.	No. 0506336		Course name		Various Progra Languages	mming
Credit Hours	3		Prerequisite/ Co-requisite		0506335	
Course type	☐ MANDATORY UNIVERSITY REQUIREMEN	UNIVERSITY ELECTIVE REQUIREMENTS	☐ FACULTY MANDATORY REQUIREMENT	☐ Support course family requirements	✓Mandatory requirements	☐ Elective requirements
Teaching style	☐ Full onlin	e learning	☐ Blended learning		√ Traditional learning	
Teaching model	□ 1 Synchro	onous: 1 asynchronous	☐ 1 face to fac	ce: 1 asynchronous	√2 Traditional	
Faculty men instructor)	nber and stu	ndy divisions' informa	·		· ·	
Nam	ne	Academic rank	Office No.	Phone No.	E-	mail
Division n	number	Time	Place	Number of studen	ts Teaching style	Approved model
Brief descrip	tion					
Advanced visual basic provides an introduction to event driven programming in windows environment using visual basic. Further applications of programming techniques are provided. The student will develop well documented programs containing complex data structures and develop graphical user interface.					student will	
Learning res	ources					
		o program, H.M. Deitel, P. J. Deitel and T. R. Nieto, Prentice Hall,				
Supportive learning resources (Books, databases, periodicals, software, applications, others) Supporting websites Programming Visual F			asic. Net, D. Gru	undgeiger, O'Reilly, 2	2002	
The physical enteaching	nvironment for	□ Class room	√labs	☐ Virtual education platform		Others
Necessary equi software	pment and	Microsoft Visual C# 20	10 Express			
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	Demonstrate an understanding of the programming concept.	MK2
K2	Analyze the basic structure of a Visual basic application and be able to document, debug, compile, and run a simple application.	MK3
K3	Defining the ways to create, name, and assign values to variables.	MK2
K4	Defining the ways to create, initialize, and destroy objects in Visual basic	MK1
	Skills	
S1	Explaining how to build new Windows Forms Application.	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 Windows Forms Application.	MC2
C2	Knowing the Visual basic instructions.	MC2
C3	Knowing the fundamentals of the Visual basic 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).

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

Week	Subject	learning style*	Reference **
1	The .NET Framework	Lecture	
	 Overview of the .NET Framework and Common Language Runtime Class Library/API Assemblies What's new in the Visual Basic Language 		



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2	The Visual Studio .NET IDE	Lecture
	 Creating a new Visual Basic project and choices of projects Development Environment windows Using controls from the Toolbox Using the MSDN Library Help Files 	
3	Integrated development environment	Lecture
	 Project window. Tool box. Forms. Events. Methods. Menu bar& tool bar 	
4	Fundamentals of Visual Basic Programming	Lecture
	Program StructureNamespacesData TypesVariables	
5	Fundamentals of Visual Basic Programming	Lecture
	ConversionsOperators and ExpressionsConsole I/O	
6	Control Structures If Statement Select Case Statement Do/Loop Statement For/Next Statement Exit and Continue	Lecture
7	Procedures	Lecture
	 Subroutines Functions Pass-by-value Versus Pass-by-reference Access modifiers Overloading Optional Parameters 	
8	Advanced Data Types	Lecture
	ArraysEnumerationsStructures	
9	Object-Oriented Programming	Lecture
	 Object-Oriented Concepts Defining Classes Methods and Properties Shared Data and Methods Constructors 	



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10	Inheritance		Lecture	
	 Cont Cons Acce Poly Even Abst Class 	ract and Not Inheritable		
11	Interfaces and Co		Lecture	
	 Prog Usin Reso Colle Gene 	face Fundamentals ramming with Interfaces g Interfaces at Runtime lving Ambiguities ections eric Types e-Safe Collections		
12	Windows Forms		Lecture	
	RadiChecListScroiTime	ons, Labels and Textboxes o Buttons and Group Boxes ek Boxes Boxes and Combo Boxes Il Bar er Control ible Event Handling		
13	User Interface Fe		Lecture	
	DialdMentFiles			
14	Database Program	mming	Lecture	
	.NETUsinUsin	D.NET Data Providers Data Readers Data Sets 2.0 Data Binding		
15	New Features in	Visual Basic	Lecture	
	 Obje Arra Anoi Parti Exterior Lami Quer 	l Type Inference ct Initializers y Initializers nymous Types al Methods nsion Methods bda Expressions y Keywords		
16	Project building	unad laamina laamina thuas	Lecture	

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



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^{**} 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 basic.		
2	Build Windows forms application.		
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		