

Republic of Iraq		University:	Basrah University
The Ministry of Higher Education		College:	Education for Pure Science
& Scientific Research		Department:	Computer Science
		Stage:	third Year
		Lecturer Name:	Abdulla J. Yassin
		Academic Status:	Lecturer
		Qualification:	M.S.C Computer Science
		Place of work:	Basrah University

Course Weekly Outline

Course Instructor					
Email	abdullajas@uobasrah.edu.iq				
Title	Visual basic program				
Course Coordinator	First and second semester				
Course Objective	Study the basic concepts of visual programming and identify the basics of event-oriented object programming and how to deal with graphic interface design.				
Course Description	The course contains the VB language interfaces and how to use them to build a simple interface, a detailed explanation of variables, branching, and recursion, a clarification of the basics of control in the VB language, and a detailed explanation of arrays and their types. We will then discuss a detailed study of databases, how to open a database built in other systems, the SQL query language, and how to include a database for these queries.				
Textbook	Visual Basic 2005 How to program by Deitel , 2006				
References	1- Programming Microsoft Visual Basic 2005 , by Francesco Balena , 2006 2- Microsoft Visual Basic 2005 Step by step by Michael Alvarson				
Course Assessment	Term Tests 25%	Laboratory 15%	Quizzes 15%	Project	Final Exam 50%
General Notes					



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	Topics Covered	Lab. Experiment Assignments	Weeks
1	Basic Components of VB Windows Introduction + installation + first time start	explaining the interfaces in the Visual programming lab	
2	Variable Types Variable Initialization	Using and Explaining "common controls" <ul style="list-style-type: none"> • Button • TextBox • Lable 	

3	Property, Method, Event Toolbox	Using and Explaining "common controls" <ul style="list-style-type: none"> • Button • TextBox • Lable 	
4	Decision Statements IF , IF .. Else	Using and Explaining "common controls" <ul style="list-style-type: none"> • checkbox • RadioButton 	
5	Decision Statements Nested if, Select ... Case	Using and Explaining "common controls" <ul style="list-style-type: none"> • Checkbox • RadioButton 	
6	Library function & String function	Designing program using previous tools	
7	Input and output data (InputBox , MsgBox)	Using InputBox and MsgBox in program	
8	Loop Statements For Next Do.... Loop	Using and Explaining "common controls" <ul style="list-style-type: none"> • ListBox 	
9	Loop Statements Nested loops, Exit loop	Using and Explaining "common controls" <ul style="list-style-type: none"> • ListBox • ComboBox 	
10	MDI Applications	Using MDI in a program	

11	Error Handling .. Exception Statements	Explain Error Handling in a program	
12	Files and Directories	Using and Explaining "common controls" <ul style="list-style-type: none"> • PictureBox • ImageList • Timer 	
13	Files and Directories Readers and Writers	Explain File readers and writers in a program	
14	Arrays Array Class Declaring and Initializing	Explain Array in a program	
15	Arrays Multidimensional Arrays Jagged Array Searching and Sorting Arrays	Explain Multidimensional and Jagged Array in a program	
First Semester Exam			
16	Multi Forms and multi proposed Application	Using multi-forms: hiding and showing forms	
17	Procedures and functions	Explain Procedures and functions in a program	
18	Argument passing mechanisms	Using Argument passing in a program	
19	The Menu (Sub Menus) and Pop-Up Menu	Using a menu in an application	
20	The Dialogs Control	Design programs using all previous tools and Dialogs Control	
21	ADO.NET, Developing Database Applications	Using Database in Applications	

		Add, Edit, Delete, Moving	
22	Database Applications	Using Database in Applications Search, multiple tables	
23	Binding a DataSet to a Windows Forms DataGrid	Display database in a data grid	
24	SQL and Database Applications	Using SQL in a database program	
25	Report	Using Report view in a program	
26	SQL Statements and Report	Using SQL to display data in Report view in a program	
27	ASP.NET and Web Forms	Introduction to using asp.net	
28	Web Services	Creating a Web Service	
29	Connect windows application to use google services	Design a program for applying google map and uploading files to google drive	

Instructor Signature:



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