



**Jordan University of Science and Technology**  
**Faculty of Computer & Information Technology**  
**Computer Science Department**

CS410 Visual Programming Languages

First Semester 2020-2021

**Course Catalog**

3 Credit Hours. Fundamentals programming, new programming features such as, LINQ, Auto implemental properties, and implicitly typed variables. Object oriented programming concepts such as inheritance interfaces. GUI Graphics and Multimedia such as, WPF, XAML, and WINFORMS. WEB/DATABASE concepts such as, XML, LINO To XML, Database, SQL, LINO To SQL.

**Text Book**

<b>Title</b>	Visual C# 2010 How to program
<b>Author(s)</b>	Deitel and Deitel
<b>Edition</b>	4th Edition
<b>Short Name</b>	Textbook
<b>Other Information</b>	

**Instructor**

<b>Name</b>	<b>Dr. Firas Al Balas</b>
<b>Office Location</b>	-
<b>Office Hours</b>	
<b>Email</b>	faalbalas@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Mon, Wed : 11:30 - 13:00  
Room: منصة الكترونية

**Tentative List of Topics Covered**

<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Weeks 1, 2, 3	Introduction to the Visual C# 2010, introduction to C# applications, Introduction to classes and objects. Control Statements: Part I & Part II.	<b>Ch1, Ch2, Ch3, Ch4, Ch5, &amp; Ch6 From Textbook</b>
Weeks 1, 2, 3, 4, 5	GUI Concepts: Part I (In Lab)	<b>Ch14 From Textbook</b>
Week 4	Methods: A deeper Look	<b>Ch7 From Textbook</b>
Week 4	Arrays	<b>Ch8 From Textbook</b>
Week 5	Introduction to LINQ and the List Collection	<b>Ch9 From Textbook</b>
Week 5	Classes and Objects: A Deeper Look	<b>Ch10 From Textbook</b>
Week 6	Object-Oriented Programming: Inheritance	<b>Ch11 From Textbook</b>
Weeks 6, 7	Polymorphism, Interface & Overloading	<b>Ch12 From Textbook</b>
Weeks 7, 8	Exception Handling	<b>Ch13 From Textbook</b>
Weeks 6, 7, 8	GUI Concepts: Part II (In Lab)	<b>Ch15 From Textbook</b>
Weeks 9, 10, 11	Strings and Characters, Files and Streams	<b>Ch16 &amp; Ch17 From Textbook</b>
Weeks 12, 13, 14	Database, and LINQ	<b>Ch18 From Textbook</b>

**Relationship to Program Student Outcomes (Out of 100%)**

SO1	SO2	SO3	SO4	SO5	SO6

**Policy**

<b>Exams</b>	<p>The format for the exams is generally (but NOT always) as follows: Write programs, multiple-choice, and find the output.</p> <p>Makeup exam should not be given unless there is a valid excuse.</p>
<b>Attendance</b>	<p>If you miss a class, it is your responsibility to find out about any announcements or assignments you may have missed.</p> <p>University policies will be applied regarding attendance.</p>