

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

Event Driven Programming Course Definition File

1- Basic Information:

Course Name	Event Driven Programming
Course ID	IPG203
Contact Hours (Registered Sessions)	18
Contact Hours (Synchronized Sessions)	18
Mid Term Exam	NO
Exam	2
Registered Sessions Work Load	36
Synchronized Session Work Load	18
Credit Hours	4

2- Pre-Requisites:

Course	ID
Introduction to Programming	IPG101

3- Course General Objectives:

Students learn in this course how to develop windows forms applications: using different controls, writing controls events and binding with databases.

4- Intended Learning Outcomes (ILO):

Learning Outcomes codes	Learning Outcomes
LO1	Building Windows Applications using Visual Studio 2013.
LO2	Using Windows Controls.
LO3	Events Programming.
LO4	Using Lists.
LO5	Using advanced controls.
LO6	Create multiple documents interface.
LO7	Learn visual inheritance.
LO8	Build custom controls.

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

LO9	Learn drawing.
LO10	Learn LINQ basics.
LO11	Binding with databases.

5- Course Content

LO	Course Syllabus	Recorded Sessions	Synchronized Sessions	Type	Additional Notes
LO1	Building Windows Applications using Visual Studio 2013	2	1	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013
LO2	Using Windows Controls	2	1	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013
LO3	Events Programming	1	1	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013
LO4	Using Lists	2	2	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013
LO5	Using advanced controls	1	1	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013
LO6	Create multiple documents	1	1	<input checked="" type="checkbox"/> Exercises	Visual Studio 2013

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

	interface			<input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	
LO7	Learn visual inheritance	1	1	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013
LO8	Build custom controls	1	1	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013
LO9	Learn drawing	2	2	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013
LO10	Learn LINQ basics	2	2	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013
LO11	Binding with databases	3	5	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Assignments <input type="checkbox"/> Seminars <input type="checkbox"/> Projects <input checked="" type="checkbox"/> Practices <input type="checkbox"/> Others	Visual Studio 2013

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

6- Assessment Criteria (Related to ILOs)

LO Code	LO	Assessment Type				
		Interactive Synchronized Collaboration	Practice	Exams	Presentations And Face-to-Face Assessments	Reports
LO1	Building Windows Applications using Visual Studio 2013	X	X	X		
LO2	Using Windows Controls	X	X	X		
LO3	Events Programming	X	X	X		
LO4	Using Lists	X	X	X		
LO5	Using advanced controls	X	X	X		
LO6	Create multiple documents interface	X	X	X		
LO7	Learn visual inheritance	X	X	X		
LO8	Build custom controls	X	X	X		
LO9	Learn drawing	X	X	X		
LO10	Learn LINQ basics	X	X	X		
LO11	Binding with databases	X	X	X		

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

7- Course Syllabus (18 hours of total synchronized sessions)

Chapter	Contents	
(1) Windows Application Basics	Visual Studio 2013	<ul style="list-style-type: none"> Start using Visual Studio 2013
	Windows Forms	<ul style="list-style-type: none"> Windows Forms
	Event Handling	<ul style="list-style-type: none"> Event-Driven GUI Delegates Events Parameters
	Controls Properties	<ul style="list-style-type: none"> Controls Properties
(2) Controls 1	Controls	<ul style="list-style-type: none"> Labels Text Boxes Buttons
	Controls	<ul style="list-style-type: none"> Group Boxes Panels
	Controls	<ul style="list-style-type: none"> Check Boxes Radio Buttons
(3) Controls 2	Controls	<ul style="list-style-type: none"> Picture Boxes ToolTips
	Controls	<ul style="list-style-type: none"> NumericUpDown
	Mouse Events	<ul style="list-style-type: none"> Mouse Events
	Keyboard Events	<ul style="list-style-type: none"> Keyboard Events
(4) Controls 3	Menus	<ul style="list-style-type: none"> Menus
	Date Time Controls	<ul style="list-style-type: none"> MonthCalender DateTimePicker
	LinkLabel	<ul style="list-style-type: none"> LinkLabel
(5) Controls	Lists	<ul style="list-style-type: none"> List Box
	Lists	<ul style="list-style-type: none"> Checked List Box

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

	Lists	<ul style="list-style-type: none"> • ComboBox
(6) Controls 5	TreeView	<ul style="list-style-type: none"> • TreeView
	ListView	<ul style="list-style-type: none"> • ListView
	TabControl	<ul style="list-style-type: none"> • TabControl
(7) Advanced Topics	Multiple Documents Interface	<ul style="list-style-type: none"> • MDI
	Visual Inheritance	<ul style="list-style-type: none"> • Visual Inheritance
	User-Defined Controls	<ul style="list-style-type: none"> • User-Defined Controls
(8) Graphics	Graphics	<ul style="list-style-type: none"> • Graphics Classes • Colors • ColorDialog
	Fonts	<ul style="list-style-type: none"> • Font Metrics
	Drawing Shapes	<ul style="list-style-type: none"> • Lines • Rectangles • Ellipses
(9) LINQ Basics	LINQ	<ul style="list-style-type: none"> • var • where • select • orderby
	LINQ	<ul style="list-style-type: none"> • Create unknown type in select • Query from objects arrays • Create new type in select
(10) Databases 1	Data Model Class Library	<ul style="list-style-type: none"> • Create ADO.NET Entity Data Model Class Library
	Create applications	<ul style="list-style-type: none"> • Linking Controls and Entities
(11) Databases 2	Dynamic Binding with Queries	<ul style="list-style-type: none"> • Dynamic Binding with Queries

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

	Retrieving data from multiple tables	<ul style="list-style-type: none"> Retrieving data from multiple tables using LINQ
	Create Master/Details forms	<ul style="list-style-type: none"> Create Master/Details forms
(12) Databases 3	Binding with single value	<ul style="list-style-type: none"> Binding with single value
	Binding with collections	<ul style="list-style-type: none"> Binding with collections

8- Practice Tools:

Tool Name	Description
Visual Studio 2013	