



الجامعة الافتراضية السورية
SYRIAN VIRTUAL UNIVERSITY

Web Programming (1)

Course Definition

Information

Technology

Engineering



Powered by:



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1. Basic Information:

Course Name	Web Programming (1)
Course Code	BWP401
Number of Presentational Sessions*	32
Number of Synchronous Sessions**	16
Number of Shorter Tests***	4
Number of Exams***	1
Theoretical Sessions Work Load (hrs.)	48
Practical Sessions Work Load (hrs.)	24
Credit Hours	5

*Each presentational session comprises both recorded lecture (1.5 hrs.) and interactive learning content (1.5 hrs.).

**Each synchronous session comprises the interactive lecture carried out in real time in a virtual class (1.5 hrs.).

***Each shorter test is 0.5 hr. long. The final exam is 2 hrs. long.

N.B.

Generally, each chapter requires two presentational sessions: one for the recorded content and one for the interactive content (unless the chapter is too long, in which case it may require more sessions (. This note applies to synchronous sessions as well, where each chapter requires one synchronous session generally.

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2. Prerequisites courses:

Course	Code
Programming 2	BPG402

3. Course Objectives:

Web Programming 1 course serves as an introduction to most well-known web programming languages. It deals with different methods and techniques of web applications based on the demonstration of both static and dynamic web concepts, and of the software development from client and server ends. This course explains also the relations between web applications with relevant data base management systems.

Students learn also how to develop client and server side web applications using JavaScript and Visual Studio .NET 2013.

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4. Learning Outcomes (LO):

By the end of this course, the learner is expected to acquire and learn the following subjects:

- XHTML Basics
- advanced skills in XHTML
- Cascade Style Sheets
- JavaScript basics
- HTML and JavaScript
- Dynamic pages
- JQuery basics
- Attributes and methods in JQuery
- JQuery skills
- ASP.Net Basics
- State Management
- Data Binding
- Dealing with databases
- Database Programming
- Web services
- XML

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5. Assessment Results:

Chapter Number	Chapter Title	General Objectives	Assessment Type				
			Interactive Content & Recorded Sessions	Applied Activities (Synch. Sessions)	Final Exam*/ Shorter Tests**	Presentations and Interviews***	Reports** *
CH1	XHTML Basics	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH2	advanced skills in XHTML	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH3	Cascade Style Sheets	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH4	JavaScript basics	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH5	HTML	Comprehension	√	√	√	√	√

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	and JavaScript	–Analytical Thinking –Tools and Application Hands– On					
CH6	Dynamic pages	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH7	JQuery basics	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH8	Attributes and methods in JQuery	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH9	JQuery skills	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH10	ASP.Net Basics	Comprehension –Analytical	√	√	√	√	√

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		Thinking –Tools and Application Hands– On					
CH11	State Managem ent	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH12	Data Binding	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH13	Dealing with databases	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH14	Database Programm ing	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√	√	√
CH15	Web services	Comprehension –Analytical Thinking –Tools	√	√	√	√	√

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		and Application Hands– On					
CH16	XML	Comprehension –Analytical Thinking –Tools and Application Hands– On	√	√	√		

***The final exam is two hours long and is given at the end of the course.**

****Shorter tests are about 30 minutes long and are given after three or four lectures throughout the semester during synchronous sessions.**

*****Presentations, interviews, and reports are submitted once after each three or four lectures throughout the semester during synchronous sessions.**

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6. Course Syllabus:

Chapter	Subject	Content	Number of Learning Objects	Number of synchronous Learning Objects
CH1	XHTML Basics	<ol style="list-style-type: none"> 1. Web Basics 2. Main tags 3. Tables 	3	1
CH2	advanced skills in XHTML	<ol style="list-style-type: none"> 4. Forms 5. HTML5 	2	1
CH3	Cascade Style Sheets	<ol style="list-style-type: none"> 1. CSS 2. Font 3. Lists 	3	1
CH4	JavaScript basics	<ol style="list-style-type: none"> 1. Statements 2. Arrays 3. Functions 4. Patterns Matching 	4	2
CH5	HTML and JavaScript	<ol style="list-style-type: none"> 1. Events 2. Input Validation 3. Example 	3	1
CH6	Dynamic pages	<ol style="list-style-type: none"> 1. Elements positions 2. Dealing with elements 3. Dynamic contents 	4	2

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		4. Moving elements		
CH7	JQuery basics	1. Selectors	1	1
CH8	Attributes and methods in JQuery	1. Attributes 2. CSS	2	1
CH9	JQuery skills	1. Dealing with elements 2. Dealing with events 3. Ajax 4. Effects	4	2
CH10	ASP.Net Basics	1. Basic 2. HTML Controls 3. Web Controls 4. Validation Controls	4	2
CH11	State Management	1. View State 2. Session 3. Cookies	3	1
CH12	Data Binding	1. Binding Controls 2. Binding with multiple values	2	1
CH13	Dealing with databases	1. Databases connection 2. Display data in controls 3. Using data controls	3	1
CH14	Database Programming	1. Example 2. Repeater 3. Datasets	3	1
CH15	Web services	1. Web Service 2. Publish Web Service	3	1

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		3. Example		
CH16	XML	1. XML	1	1

7. Practical Activity:

- **Tools and Labs:**

Tool Name	Description
Visual Studio 2013	
Word, power point, excel	Microsoft office

- **Practical Activities per Chapters:**

Chapter	Activities Type	Remarks
CH1	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH2	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH3	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework	Visual Studio 2013

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	<input type="checkbox"/> Webinars <input checked="" type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	
CH4	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input checked="" type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH5	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH6	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH7	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input checked="" type="checkbox"/> Webinars <input type="checkbox"/> Project	Visual Studio 2013

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	<input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	
CH8	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input checked="" type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH9	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH10	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH11	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input checked="" type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013

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CH12	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input checked="" type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH13	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH14	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH15	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework <input checked="" type="checkbox"/> Webinars <input type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	Visual Studio 2013
CH16	<input checked="" type="checkbox"/> Exercises <input checked="" type="checkbox"/> Homework	Visual Studio 2013

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	<input type="checkbox"/> Webinars <input checked="" type="checkbox"/> Project <input checked="" type="checkbox"/> Experiment <input type="checkbox"/> Other	
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8. References:

- Visual C# 2012 How to Program, Paul Deitel – Harvey Deitel, 5th Edition, Prentice Hall, 2014