

Web Programming (2)

Course Definition





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1. Basic Information:

Course Name	Web Programming (2)
Course Code	BWP501
Number of Presentational Sessions*	12*2
Number of Synchronous Sessions**	12
Number of Shorter Tests***	4
Number of Exams***	1
Theoretical Sessions Work Load (hrs.)	72
Practical Sessions Work Load (hrs.)	36
Credit Hours	5

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

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.

^{**}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.

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2. Prerequisites courses:

Course	Code
Web Programming (1)	BWP401

3. Course Objectives:

The aim of this course "Web Programming 2", to provide students with the necessary practical skills to build real word web applications.

This course is based on the most common open source language php and its interactions with the MySQL relevant databases.

The course reviews the basics of the php programming language with a focus on the direction of object-oriented programming, the best practices when dealing with databases, the use of appropriate technologies such as JSON and AJAX when needed.

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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:

- PHP Basics
- Advanced skills in OOP using PHP.
- Building web forms.
- States Management.
- Data Binding.
- Dealing with databases.
- Database Programming.
- JSON skills.
- AJAX skills.
- Dealing with files.

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5. Assessment Results:

			Assessment Type				
Chapter Number	Chapter Title	General Objectives	Interactive Content & Recorded Sessions	Applied Activities (Synch. Sessions)	Final Exam*/ Shorter Tests**	Presentations and Interviews***	Repo rts**
CH1	PHP Basics	Comprehension -Analytical Thinking -Tools and Application Hands- On	√	J	J	J	J
CH2	Strings, Numbers and Arrays	Comprehension -Analytical Thinking -Tools and Application Hands- On	√	J	J	J	√
СНЗ	Functions	Comprehension -Analytical Thinking -Tools and Application Hands- On	√	J	J	J	J
CH4	Classes and Objects	Comprehension -Analytical Thinking -Tools and Application Hands- On	J	J	J	J	J
CH5	Forms	Comprehension	J	J	J	J	J

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		-Analytical					
		Thinking -Tools					
		and Application					
		Hands- On					
	Dooling	Comprehension					
	Dealing	-Analytical					
CH6	with	Thinking -Tools	J	$\sqrt{}$	J	$\sqrt{}$	$\sqrt{}$
	Database	and Application					
	S	Hands- On					
		Comprehension					
	State	-Analytical					
CH7	Managem	Thinking -Tools	J	$\sqrt{}$	J	\checkmark	J
	ent	and Application					
		Hands- On					
		Comprehension					
	CDUD	-Analytical					
CH8	CRUD	Thinking -Tools	J	$\sqrt{}$	J	$\sqrt{}$	√
	Forms	and Application					
		Hands- On					
		Comprehension					
	JSON	-Analytical					
CH9	skills	Thinking -Tools	J	J	J	\checkmark	$\sqrt{}$
	SKIIIS	and Application					
		Hands- On					
CU10	AJAX	Comprehension	- 1	ı			1
CH10	skills	-Analytical	J	J	J	J	V

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		Thinking -Tools					
		and Application					
		Hands- On					
		Comprehension					
		-Analytical					
CH11	Files	Thinking -Tools	\checkmark	\checkmark	1	\checkmark	/
		and Application					
		Hands- On					
		Comprehension					
	Built-in	-Analytical					
CH12	Functions	Thinking -Tools	$\sqrt{}$	\checkmark	√	\checkmark	√
	1 0110010115	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 synchron ous Learning Objects
CH1	PHP Basics	 PHP Basics Variables and Data types Expressions Conditional statements Loops 	5	2
CH2	Strings, Numbers and Arrays	 Strings Numbers Indexed Arrays Associative Arrays 	4	2
СН3	Functions	 Built-In Functions Functions Declarations Arguments Call by Value Call by Reference 	5	2
CH4	Classes and Objects	 Classes and Objects Inheritance Abstract Classes Traits Static Members 	5	2

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СН9	JSON skills	 Data on the Web What is JSON 	4	2
		1. Data on the Web		
	Forms	3. Update4. Delete		
CRUD		2. Read	4	2
		1. Create		
СП	Management	2. Session Variables	2	1
CH7	State	1. Cookies	2	1
		5. Data Selection		
	Databases	4. Tables Data Manipulation		_
CH6	Dealing with	3. Create Tables	5	2
		 Accessing Database Create MySQL Database 		
		5. Form Data Validation		
		4. Persisting Form Data		
CH5	Forms	3. Form Input Types	5	2
		2. Form Data Submit		
		1. Form Requests Handling		

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		3. File Upload		
		1. Date and Time		
CU12	Built-in	2. Math	4	2
CH12	Functions	3. Strings	4	2
		4. Arrays		

7. Practical Activity:

• Tools and Labs:

Tool Name	Description
XAMPP	Free open source
Word, power point, excel	Microsoft office

• Practical Activities per Chapters:

Chapter	Activities Type	Remarks
	☑ Exercises	XAMPP
	☑ Homework	
CU1	□ Webinars	
CH1	□ Project	
	☑ Experiment	
	□ Other	
	☑ Exercises	XAMPP
	✓ Homework	
CH2	□ Webinars	
	□ Project	
	☑ Experiment	

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	□ Other	
	☑ Exercises	XAMPP
	✓ Homework	
CH3	☐ Webinars	
СПЗ	☑ Project	
	☑ Experiment	
	□ Other	
	☑ Exercises	XAMPP
	✓ Homework	
CH4	☐ Webinars	
СП4	☑ Project	
	☑ Experiment	
	□ Other	
	☑ Exercises	XAMPP
	☑ Homework	
CH <i>5</i>	□ Webinars	
CHS	□ Project	
	☑ Experiment	
	□ Other	
	☑ Exercises	XAMPP
	☑ Homework	
CH6	☐ Webinars	
CHO	□ Project	
	☑ Experiment	
	□ Other	
CH7	☑ Exercises	XAMPP

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	☑ Homework	
	☑ Webinars	
	□ Project	
	☑ Experiment	
	□ Other	
	☑ Exercises	XAMPP
	☑ Homework	
CH8	☐ Webinars	
СПо	☑ Project	
	☑ Experiment	
	□ Other	
	☑ Exercises	XAMPP
	✓ Homework	
CHO	☐ Webinars	
CH9	□ Project	
	☑ Experiment	
	□ Other	
	☑ Exercises	XAMPP
	☑ Homework	
C U10	□ Webinars	
CH10	□ Project	
	☑ Experiment	
	□ Other	
	☑ Exercises	XAMPP
CH11	☑ Homework	
	✓ Webinars	

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	□ Project	
	☑ Experiment	
	□ Other	
CH12	☑ Exercises	XAMPP
	☑ Homework	
	□ Webinars	
	☑ Project	
	☑ Experiment	
	□ Other	

8. References:

- https://www.w3schools.com/php
- https://www.guru99.com/php-tutorials.html
- https://www.codecademy.com/learn/learn-php