

<b>Identification</b>	<b>Department</b>	Computer Science
	<b>Program</b>	Undergraduate
	<b>Subject</b>	<b>CMS 250: Web Programming 2, 6 ECTS</b>
	<b>Term</b>	Spring 2023
	<b>Instructor</b>	<b>Rashad Aliyev</b>
	<b>E-mail</b>	rashad@aliev.info
	<b>Classroom/hours</b>	11 Mehseti str. (Neftchilar camp.)
<b>Prerequisites</b>	CMS 220: Web Programming 1	
<b>Language</b>	English	
<b>Compulsory/Elective</b>	Compulsory	
<b>Text books and course materials</b>	<p><b><u>Core Textbooks:</u></b></p> <ol style="list-style-type: none"> <li>1. PHP for the Web, 4th Edition by Larry Ullman. Visual Quickstart Guide. Peachpit Press, 2011</li> <li>2. PHP and MySQL for Dynamic Web Sites, 4th Edition by Larry Ullman. Visual Quickstart Guide. Peachpit Press, 2012</li> <li>3. PHP Advanced and Object Oriented Programming (E-book, 3rd Edition) by Larry Ullman. Visual Quickstart Guide. Peachpit Press, 2013</li> <li>4. PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev, Bakı, 2023</li> </ol> <p><b><u>Supplementary Textbooks:</u></b></p> <ol style="list-style-type: none"> <li>5. Learning PHP, MySQL and JavaScript with JQUERY, CSS and HTML 5 (E-book, 4th Edition) by Robin Nixon. O'Reilly Media, 2015</li> </ol> <p><b><u>Websites:</u></b></p> <ol style="list-style-type: none"> <li>6. <a href="http://www.w3schools.com/">http://www.w3schools.com/</a></li> </ol>	
<b>Teaching methods</b>	<b>Case analysis</b>	+
	<b>Group discussion</b>	+
	<b>Lab</b>	+
	<b>Lecture</b>	+
	<b>Course paper</b>	+
	<b>Others</b>	

<b>Evaluation Criteria</b>	<b>Methods</b>	<b>Percentage (%)</b>
	<b>Midterm Exam</b>	<b>20%</b>
	<b>Case studies</b>	
	<b>Class Participation + Activity</b>	<b>5%</b>
	<b>Quizzes</b>	
	<b>Project</b>	<b>20%</b>
	<b>Presentation</b>	
	<b>Laboratory Work (Assignments)</b>	<b>15%</b>
	<b>Final Exam</b>	<b>40%</b>
	<b>Other</b>	
	<b>Total</b>	<b>100%</b>
<b>Course objectives</b>	This course will introduce a popular server-side programming language PHP8 (both procedural programming + object oriented programming) with MySQL database support.	
<b>Learning outcomes</b>	<p>By successfully completing this course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Learn Introduction PHP Level 1</li> <li>• Learn Introduction PHP Level 2</li> <li>• Learn Introduction PHP Level 3</li> <li>• Learn all syntax of PHP language</li> <li>• Learn SQL language and write simple to complex queries and sub-queries with SQL(MySQL)</li> <li>• Learn to integrate PHP with MySQL database</li> <li>• Learn to write in both Procedural Coding and Object Oriented Coding</li> <li>• Learn to provide security levels for online projects and apps</li> <li>• Learn to create small dynamic websites with both front-end and back-end support</li> <li>• Learn to work with XML, JSON formats and fetching data's with AJAX</li> <li>• Learn Laravel</li> </ul>	

<b>Course outline</b>	<p>Installation and Configuration of PHP and MySQL   PHP Syntax   Flow Control, Conditional Statements   Arrays   Array Manipulation Functions   String Manipulation Functions   PHP and HTML Forms   PHP Advanced: Reusing Code and Writing Function   File System Management   Session Control and Cookies   Introduction to MySQL   SQL Queries   PHP &amp; MySQL Integration   OOP (Object Oriented PHP)   Frameworks and CMS Systems   XML/JSON formats and data manipulation with PHP   PHP, MySQL and AJAX</p>
<b>Course policy</b>	<p><b>Lesson organization:</b> General information on the subject will be provided for the students during lectures.</p> <p><b>Attendance:</b> Participation of students at class is important. Students should inform dean's office about missing lessons for particular reasons (illness, family issues and etc.).</p> <p><b>Lates:</b> Students have to get to class on time.</p> <p><b>Exams:</b> All the issues related to the participation and admission to the exam are regulated by the faculty dean. Topics of midterm and final exams are provided for the students before the exams.</p> <p><b>Violation of the rules of the exams:</b> Cheating and plagiarism is equal to Zero.</p> <p><b>The rule for completing the course:</b> In accordance with the University rules the overall success rate to complete the course should be 60% or above. The students who failed the exam would be to take this subject next semester or next year.</p> <p><b>Rules of conduct for Students:</b> Disruption of the lesson and not following ethical norms during the lesson, as well as conduction of the discussions by the students without permission and using mobile phones is forbidden</p>

Week	Date/Day	Topics	Topics
1.		Introduction to PHP	Presentation;  PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev
2.		Flow Control. Conditional Statements.	Presentation;  PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev
3.		Arrays. String Manipulation.	Presentation;  PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev
4.		PHP and HTML Forms.	Presentation;  PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev
5.		Reusing Code and Writing Functions.	Presentation;  PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev;  PHP for the Web, 4th Edition by Larry Ullman. Visual Quickstart Guide. Peachpit Press
6.		File System Management.	Presentation;  PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev
7.		Session Control and Cookies.	Presentation;  PHP for the Web, 4th Edition by Larry Ullman. Visual Quickstart Guide. Peachpit Press
8.		OOP (Object Oriented PHP)	Presentation;

			<p>PHP Advanced and Object Oriented Programming (E-book, 3rd Edition) by Larry Ullman. Visual Quickstart Guide.</p> <p>PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev</p>
9.		Midterm Exam	
10.		Introduction to MySQL.	<p>Presentation;</p> <p>PHP and MySQL for Dynamic Web Sites, 4th Edition by Larry Ullman. Visual Quickstart Guide. Peachpit Press</p>
11.		SQL Queries	<p>Presentation;</p> <p>PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev;</p> <p>PHP and MySQL for Dynamic Web Sites, 4th Edition by Larry Ullman. Visual Quickstart Guide. Peachpit Press</p>
12.		PHP & MySQL Integration	<p>Presentation;</p> <p>PHP and MySQL for Dynamic Web Sites, 4th Edition by Larry Ullman. Visual Quickstart Guide. Peachpit Press;</p> <p>PHP Web proqramlaşdırma dili, Rəşad Əliyev və Ələkbər Əliyev;</p>
13.		XML/JSON formats. Data manipulation with PHP	<p>Presentation;</p> <p>PHP for the Web, 4th Edition by Larry Ullman. Visual Quickstart Guide. Peachpit Press</p>

14.		AJAX & PHP	<p>Presentation;</p> <p>Learning PHP, MySQL and JavaScript with JQUERY, CSS and HTML 5 (E-book, 4th Edition) by Robin Nixon.</p>
15.		PHP Advanced functions	<p>Presentation;</p> <p>PHP Advanced and Object Oriented Programming (E-book, 3rd Edition) by Larry Ullman. Visual Quickstart Guide.</p>

This syllabus is a guide for the course and any modifications to it will be announced in advance.