
	<b>Bakı Mühəndislik Universiteti</b>	<b>Fənn sillabusu</b>		
<b>Sənədin kodu: BEU-FR-001-EN</b>	<b>Təsdiq tarixi:</b>	<b>Revizya olunma № / Tarixi:</b>	<b>Səhifə №</b> 1/3	

### SYLLABUS

*Approved by*  
Head of department

" \_\_\_\_ " \_\_\_\_\_ 20

Course Content	Faculty:	Engineering				
	Department:	Computer and Information Technology				
	Speciality(ies)/Course(s):	Computer Engineering, Information Technologies				
	Subject code and name:	Web systems and technologies				
	Education Year -Semester	2022-2023 / I				
	Level:					
	Language:	English				
	Compulsory / Elective:	Compulsory				
	Prerequisite:					
	Instructors:	Rasim Mahmudov				
	Email:	ramahmudov@beu.edu.az				
	Phone:	+994557059289				
Consulting Hours and place:	Friday 11:00 – 13:00; main building, room 312					
Subject hours				Credits		
Theory	Seminar	Laboratory	Total	Credit	ECTS	
30	15		45			
Learning Objectives:		This course of Web Design and Programming provides an introduction of web-development techniques that use HTML, CSS, JavaScript technologies				
Learning Outcomes and Competences:		<ul style="list-style-type: none"><li>To understand the concept of Web Application Development and its architecture.</li><li>To understand the Essentials of Web Application Development.</li><li>To understand and practice web page designing techniques.</li><li>To develop Web Application</li><li>To create dynamic and animated Web Application</li></ul>				
Text books and/or References:		1. Julie C. Meloni, Teach Yourself HTML, CSS and JavaScript, SAMS Publishing USA - 2012 2. Glenn Johnson, Programming in HTML 5 with JavaScript and CSS 3 , Microsoft Press USA – 2013 3. <a href="https://www.w3schools.com/">https://www.w3schools.com/</a>				
Assessment Criteria		Student workload	Methods	Percent		
		Midterm Activity -1	Assignment	15%		
		Midterm Activity -2	Assignment	15%		
		Attendance		10%		
		Midterm Individual Activity	Project	10%		
		Laboratory Work				
		Final Exam	Written	50%		
		Other				
Week	Subjects			Theory	Seminar	Laboratory
1.	Introduction to web development  Web as a part of Internet. Frontend web development and backend web development. Setting up dev environment. Using VS Code. Web browsers.			2	1	
2.	HTML format, tags, attributes  Hyper Text Markup Languages. Structure of HTML documents. Main tags of HTML, tag attributes and their values.			2	1	
3.	Text elements. Lists, ordered, unordered and nested lists.  HTML Formatting: text and paragraph formatting. Paragraph, Break, Headers, Bold, Italic, Underline tags. Super and Subscript indexing, Horizontal Line, Preformatting. HTML Colors, Background color and background images. HTML lists: Unordered List, Ordered List, Nested lists.			2	1	
4.	Tables. Merged cells. Table layout. Creating simple web page.  HTML tables. Table structure: Table Rows, Table Data, Table Headers, Label. Merged cells: colspan and rowspan attributes. Table Coloring. Table layout.			2	1	
5.	Hyperlinks. URL, relative addresses, anchors. Creating multipage websites.			2	1	

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	Hyperlinks: External, Internal hyperlinks, Anchors. Target attribute. URL and Paths. Cross-file linking. Creating multipage website.			
6.	<b>Using form elements.</b>  Form tag. Method and action attributes and their values. Https methods. Get and Post methods. Input, button, textarea tags. Checkboxes, drop-down lists and radio buttons.	2	1	
7.	<b>Frameset, frames and iframe.</b>  Frameset and frames.Targeting into frameset. Advantages and disadvantages of Frame technology. Optimizing frames. iFrame. Modern usage of iFrame. Embedding movie from YouTube.	2	1	
8.	<b>Introduction to CSS. Inline, internal, external CSS implementation. CSS background and formatting.</b>  Introduction to CSS. CSS Syntax. CSS usage methods: inline CSS, internal CSS, external CSS. Advantages of CSS technology. Apply single style to the many tags. CSS background formatting. Background color, url, size, repeat, position, attachment properties.	2	1	
9.	<b>CSS selectors, classes. Text and paragraph formatting. Using pseudo-classes. Implement CSS for hyperlinks.</b>  CSS selectors. Tag selector. Take of one of many HTML elements by using id. Grouping many elements by class. Font, text and paragraph formatting. Working with hyper-links, using pseudo-classes. Organizing stylish navigation menu.	2	1	
10.	<b>HTML blocks. CSS box model. Border, margin, padding, float. CSS block layout. HTML5</b>  HTML block tags: div, span. Working with block and inline display properties. CSS Box model. Border, margin, padding, width, height properties. Floating formatted block elements. CSS block layout. Create website layout by CSS.	2	1	
11.	<b>Advanced CSS. Display property. Interactive elements, drop-down navigation lists.</b>  Using advanced features of CSS. Change display property of block and inline elements. Inline-block value. Creating popups and drop-down clouds and lists. Create drop-down navigation bar.	2	1	
12.	<b>Responsive design. Media query. Grid view. Using grid 12.</b>  Introduction to responsive design. Different device display standards. Viewport property, RWD grid view, media queries. Specifications for image and video view in RWD. Create website layout using grid 12.	2	1	
13.	<b>Introduction to JavaScript</b>  Javascript engine. History, introduction to EcmaScript, What is JavaScript and why we need to use it?	2	1	
14.	<b>JavaScript operators, loops</b>  JS syntax, data types, operators, loops. Objects, json, events, strings, arrays, dates and try-catch	2	1	
15.	<b>Introduction to JavaScript libraries - jQuery</b>  JavaScript frameworks, jQuery and plugins. Creating login, registration, welcome and dash pages using Html, Css and JavaScript.	2	1	

*Evaluation criteria:*

91 – 100 grades	excellent	A
81 – 90 grades	Very good	B
71 – 80 grades	good	C
61 – 70 grades	sufficient	D
51 – 60 grades	satisfactory	E
<51 grades	unsufficient	F

**Instructor: Rasim Mahmudov**  
(Name, surname, middle name)

**Signature:** \_\_\_\_\_  
**Date:** 07.09.2022

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