

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

SYLLABUS

Approved by
Head of department

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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"> • To understand the concept of Web Application Development and its architecture. • To understand the Essentials of Web Application Development. • To understand and practice web page designing techniques. • To develop Web Application • To create dynamic and animated Web Application 				
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. https://www.w3schools.com/				
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.	Using form elements. 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.	Frameset, frames and iframe. 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.	Introduction to CSS. Inline, internal, external CSS implementation. CSS background and formatting. 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.	CSS selectors, classes. Text and paragraph formatting. Using pseudo-classes. Implement CSS for hyperlinks. 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.	HTML blocks. CSS box model. Border, margin, padding, float. CSS block layout. HTML5 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.	Advanced CSS. Display property. Interactive elements, drop-down navigation lists. 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.	Responsive design. Media query. Grid view. Using grid 12. 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.	Introduction to JavaScript Javascript engine. History, introduction to EcmaScript, What is JavaScript and why we need to use it?	2	1	
14.	JavaScript operators, loops JS syntax, data types, operators, loops. Objects, json, events, strings, arrays, dates and try-catch	2	1	
15.	Introduction to JavaScript libraries - jQuery 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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