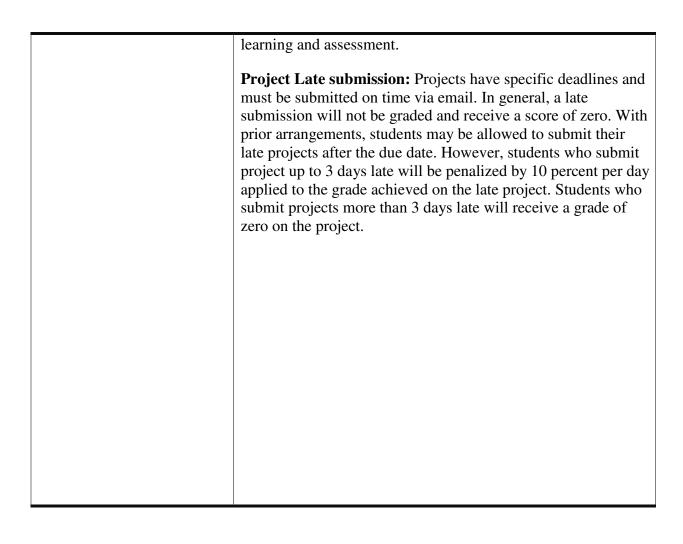
	Department	Computer Science	
	Program	Undergraduate	
	Subject	CMS 220: Web P	rogramming 1
Identification	Term	Fall 2023	
	Instructor	Rashad Aliyev	
	E-mail	rashad@aliev.info	
	Classroom/hours	11 Mehseti str. (No	eftchilar camp.)
Prerequisites	CMS 115: Computer	Applications in Engin	eering
Language	English	English	
Compulsory/Elective	Compulsory	Compulsory	
Text books and course materials	Core Textbooks: 1. Modern HTML & CSS From The Beginning (Including Sass): Build modern responsive websites & UIs with HTML5, CSS3 & Sass! Learn Flex & CSS Grid. Shruti Balasa, 2022 2. CSS Flex & Grid: Complete Guide with Real World Examples and Code Snippets. Liz Thompson, 2023 3. Learning Web Design, 4 th Edition by Jennifer Robbins. A Beginners Guide to HTML, CSS, JavaScript and Web Graphics. O'Reilly Media, 2012 4. Learning PHP, MySQL and JavaScript with JQUERY, CSS and HTML 5 (E-book, 4 th Edition) by Robin Nixon. O'Reilly Media, 2015 5. JavaScript & jQuery. Interactive Front-End Web Development by John Wiley & Sons, 2014 Websites: 1. http://www.w3schools.com/		
	Case analysis		
Teaching methods	Group discussion		+
reaching inculous	Lab		+
	Lecture		+
	Course paper		+

	Others	
	Methods	Percentage (%)
	Midterm Exam	20%
	Case studies	
Evaluation Criteria	Class Participation + Activity	10%
Dyunuuron Orneriu	Quizzes (3)	
	Project	30%
	Presentation	
	Laboratory Work (Assignments)	
	Final Exam	40%
	Other	
	Total	100%
Course objectives	This course will introduce the fundamental scripting languages and technologies of the web including HTML5, CSS3, Flexbox, Grid, JavaScript, Bootstrap framework and Introduction to REACT.	

Learning outcomes	 By successfully completing this course, students will be able to: Learn all syntax of HTML & HTML 5 scripting language. Learn all powerful features of CSS 3like animation, transition. Learn to write responsive styles for all screen resolutions and devices. Learn to design dynamic websites that meet specified needs and interests. Learn to write well-structured, easily maintained JavaScript code. Learn to use JavaScript libraries (e.g. jQuery) to create dynamic pages. Learn to design web pages with powerful framework Bootstrap.

Course outline	Introduction to Web Programming HTML and CSS Styles HTML Tables & HTML Elements HTML Forms CSS Box Model CSS Positioning HTML Media Responsive Web Design Advanced CSS3: Transforms, Transitions and Animations HTML5 – SVG (Scalable Vector Graphics) Responsive Grid System Introduction to Bootstrat Bootstrap CSS Working with Bootstrap Layouts & Themes Flexbox CSS Grid Introduction to JavaScript JS Conditional JS Forms JS DOM JS BOM jQuery	
	Lesson organization: General information on the subject will be provided for the students during lectures.	
	Attendance: Participation of students at class is important. Students should inform dean's office about missing lessons for particular reasons (illness, family issues and etc.).	
	Lates: Students have to get to class on time.	
Course policy	Exams: 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.	
	Violation of the rules of the exams: Cheating and plagiarism is equal to Zero.	
	The rule for completing the course: 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.	
	Rules of conduct for Students: 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.	
	Project Topic Selection: Students will receive email about projects in start of course and has time till end of course to complete it.	
	Project Submission Timeline: In this course, students will be assigned one or more projects that contribute to their overall learning and assessment. It is important to adhere to a structured timeline for project submissions to ensure effective	



	Tentative Schedule		
Week	Date	Topics	Textbook/Assignments
1		Introduction to Web Programming. Introduction to Web Design & Web Development Introduction to Dynamic Web Content Basics of HTML HTML Tags	Presentation; Chapter 1, 2, 3, 4 in Core Textbook [1]; Website 1
		(Theory: 90 minutes + Practice: 50 minutes + Group discussion: 40 minutes)	
2		HTML and CSS basics. HTML Formatting Elements HTML Links HTML Images HTML Styles-CSS CSS Syntax HTML Head HTML Background HTML Block and Inline Elements	Presentation; Chapter 5, 6, 7 in Core Textbook [1]; Website 1
		(Theory: 90 minutes + Practice: 90 minutes)	
		HTML Tables & Lists. Forms in HTML.	
3		HTML Tables HTML Lists and Nested Lists HTML Form Elements	Presentation; Chapter 8, 13 in Core Textbook [1];
		(Theory: 45 minutes + Practice: 45 minutes + Quiz#01: 90 minutes)	Website 1
4		CSS Selectors. CSS3 Elements. CSS Selectors CSS Border CSS Margin CSS Padding	Presentation; Chapter 9, 14 in Core Textbook [1];

	(Theory: 90 minutes + Group work: 45 minutes + Practice: 45 minutes)	Section 18 in Core Textbook [2]; Website 1
5	CSS Positioning and Layouts. The Position Property Overlapping Elements CSS Floating CSS Blocking CSS Image Gallery (Theory: 90 minutes + Practice: 90 minutes)	Presentation; Chapter 15, 16 in Core Textbook [1]; Section 19 in Core Textbook [2]; Website 1
6	Responsive Web Design. HTML Multimedia Formats HTML Responsive Media Queries Grid View Framework (Theory: 90 minutes + Practice: 90 minutes)	Presentation; Section 24 in Core Textbook [2]; Website 1
7	Advanced CSS3: Transforms, Transitions and Animations. CSS3 2D and 3D Transforms CSS3 Transitions Animation Properties (Theory: 90 minutes + Group work: 45 minutes + Practice: 45 minutes)	Presentation; Chapter 17 in Core Textbook [1]; Website 1
8	Creating Nested Navigation Menus and Web Pages Vertical Navigation Bar Horizontal Navigation Bar Nested Navigation Bars	Presentation;

	(Theory: 45 minutes + Practice: 4 minutes + Quiz#02: 90 minutes)	45
9	Midterm Exam Preparation + Midterm Exam	
	Introduction to JavaScript. Syntax & Datatypes. Loops & Conditions.	Presentation; Section 13, 14 in Core
10	Introduction to Java Script JS S JS Datatypes Loops & Conditi	- 10::000011 [=], 0::00pt0:
	(Theory: 90 minutes + Practice: 9	Website 1
11	Strings, Arrays and Objects in JavaScript JS String JS String Methods JS Arrays JS Array Methods JS Objects	Section 14, 15 in Core Textbook [2]; Chapter
12	JavaScript Forms. Event Handling in Java Script JavaScript Forms Form validati using JavaScript (Theory: 90 minutes + Practice:	on Presentation; Chapter 4, 6, 13 in Core Textbook [3]; Website 1
13	jQuery Basics & Simple Effect jQuery Syntax jQuery Selectors jQuery Events jQuery Effects (Theory: 90 minutes + Practice: 9 minutes)	21 in Core Textbook [2]; Chapter 7 in Core Textbook [3];

14		jQuery Advanced Effects. jQuery HTML. jQuery Advanced Effects jQuery HTML jQuery Traversing (Theory: 45 minutes + Practice: 45 minutes + Quiz#03: 90 minutes)	Presentation; Section 22 in Core Textbook [2]; Chapter 8 in Core Textbook [3]; Website 1
15		Bootstrap Basics. Creating Templates in Bootstrap. Bootstrap CSS Creating Bootstrap Pages and Themes (Theory: 45 minutes + Practice: 45 minutes + Project Presentation: 90 minutes)	Presentation; Website 1
16		PHP introduction Introduction to PHP Web Servers First PHP Script (Theory: 45 minutes + Practice: 45 minutes + Project Presentation: 90 minutes)	Presentation; Website 1
	Final exam		

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