

School of Engineering and Natural Sciences / Industrial Engineering (English)

2022 - 2023 Academic Year

WEB PROGRAMMING

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
WEB PROGRAMMING	IND3210763	Spring Semester	3+0	3	6
Prerequisites Courses	NESNE TABANLI PROGRAMLAMA				
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Elective				
Course Coordinator	Prof.Dr. Selim AKYOKUŞ				
Name of Lecturer(s)	Assist.Prof. Muhsin Zahid UĞUR				
Assistant(s)					
Aim	This course is devoted to the development of Web sites with standards considering both client-side and server-side programming. Students learn how the internet works, the web standards, web design concepts, HTML, CSS, JavaScript and PHP will be introduced. Participants in the course will have hands-on experience with a semester-long project.				
Course Content	This course contains; Getting Started in Web Design, How the Web Works, Basic Concepts, HTML Introduction, Marking Up Text, Adding Links, Adding Images, Table Markup, Forms, Embedded Media, Introducing CSS, Formatting Text, Colors and Backgrounds, Thinking Inside the Box, Floating and Positioning, CSS Layout with Flexbox, Responsive Web Design, Transitions, Transforms and Animation, Introduction to Javascript, Using Javascript and the Document Object Model, Advanced Javascript Programming, Project Midterm Demo, PHP Basics and Introduction to XAMPP, PHP Forms and Advanced Sections, Introduction to PhpMyAdmin, MySQL and Basic SQL Statements, Advanced SQL Statements, Project Final Demo.				
Course Learning Outcomes				Teaching Methods	Assessment Methods
Explain how the client-server model of Internet programming works.					
Design and develop interactive, client-side, executable web applications.					
Demonstrate how Internet programming tasks are accomplished.					
Learn the language of the web: HTML and CSS.					
Gain hands-on experience with both client-side and server-side web development.					
Teaching Methods					
Assessment Methods					
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Getting Started in Web Design, How the Web Works, Basic Concepts, HTML Introduction				
2	Marking Up Text, Adding Links, Adding Images				
3	Table Markup, Forms, Embedded Media				
4	Introducing CSS, Formatting Text, Colors and Backgrounds				
5	Thinking Inside the Box, Floating and Positioning, CSS Layout with Flexbox				
6	Responsive Web Design, Transitions, Transforms and Animation				
7	Introduction to Javascript, Using Javascript and the Document Object Model				
8	Advanced Javascript Programming				
9	Project Midterm Demo				
10	PHP Basics and Introduction to XAMPP				
11	PHP Forms and Advanced Sections				
12	Introduction to PhpMyAdmin, MySQL and Basic SQL Statements				
13	Advanced SQL Statements				
14	Project Final Demo				
Evaluation Methods		Weight(%)			
Midterm Exam		30			
General Exam		70			

Resources
Learning Web Design: A Beginner's Guide to HTML, CSS, Javascript, and Web Graphics by Jennifer Niederst Robbins, 5th edition, 2018. Lecture notes that will be delivered during the classes.