

CMPE418 - Internet Programming

Department:

Computer Engineering

Program Name:

Computer Engineering

Program Code: 25
Course Number:

CMPE418

Credits:

4 Cr

Year/Semester:

2018-2019 Spring

 Required Course Elective Course

Prerequisite(s):

CMPE354 – Database Management Systems

Catalog Description:

This course is an introduction to the tools, technologies, and languages used for the design and implementation of Web applications. Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), Extensible Markup Language (XML), Extensible Stylesheet Language transformations (XSLT), JavaScript and AJAX are covered for programming on the client side. XML Web services, a scripting language and the corresponding Web application development environment, session tracking, and using database are covered for programming on the server side.

Aims and Objectives

A student who successfully fulfills the course requirements will be learnt to design and develop dynamic Web pages by using current Web technologies and Web programming languages for client-side and server-side.

Course Web Page:
<https://staff.emu.edu.tr/yiltanbitirim/en/teaching/cmpe418>
Textbooks:

- “Visual Basic 2012 How to Program”, P. Deitel, H. Deitel, and A. Deitel, 6th Ed., Prentice Hall, 2013.
- “Internet & World Wide Web – How to Program”, P. Deitel, H. Deitel, and A. Deitel, 5th Ed., Prentice Hall, 2011.

Topics Covered, Class Schedule, Lab Schedule and important dates: (Tentative)
(4 hours of lectures per week) (2 hours of laboratory per week)

Week	Date	Topic	Lab.	Note
1	18/02/19-24/02/19	Introduction to the Internet (L1)	No Lab	
2	25/02/19-03/03/19	Marking Up Web Content (HTML5) (L2)	No Lab	
3	04/03/19-10/03/19	Cascading Style Sheets (CSS3) (L3)	Lab 1 – Introduction to Adobe Dreamweaver	
4	11/03/19-17/03/19	Scripting (JavaScript) (L4)	Lab 2 – HTML5	
5	18/03/19-24/03/19	Scripting (JavaScript) (Cont.) (L4)	Lab 3 – Scripting	
6	25/03/19-31/03/19	Syntax of VB language (L5)	Lab 4– Scripting	
7	01/04/19-07/04/19	Syntax of VB language (Cont.) (L5)	Lab 5 – Introduction to Visual Studio	
8	08/04/19-10/04/19	No lecture	Lab 6 – Visual Basic AND Lab. Quiz 1	
8-9	11/04/19-22/04/19	Midterm Exams	No Lab	
9	23/04/19-28/04/19	Introduction to LINQ and XML and LINQ to XML (L6)	No Lab	National Sovereignty & Children’s Day (23/04)
10	29/04/19-05/05/19	ASP.NET (L7)	Lab 7 – LINQ	Workers’ and Spring Day (01/05)
11	06/05/19-12/05/19	ASP.NET (Cont.) (L7)	Lab 8 – ASP.NET	
12	13/05/19-19/05/19	Database Applications with ASP.NET (L7)	Lab 9 – ASP.NET	Atatürk Commemoration, Youth and Sports Day (19/05)
13	20/05/19-26/05/19	ASP.NET Ajax (L8) & WCF Web Services (L9)	Lab 10 – ASP.NET	
14	27/05/19-02/06/19	Workshop	Lab. Quiz 2	
15	03/06/19-09/06/19	No Lecture	No Lab	Ramadan Bairam (04/06-07/06)
16-17	10/06/19-22/06/19	Final Exams	No Lab	

Course Learning Outcomes:

On successful completion of the course, the student is expected to be able to:

1. Develop a realistic Web application with server side programming and database connectivity (2)
2. Use modern tools and programming environments for Web programming

3. Use basic and advanced HTML commands (1) 4. Use CSS in Web page design (1) 5. Use XML in Web applications (1) 6. Have working knowledge of Web services (1) 7. Use client side scripting language, such as JavaScript, to develop dynamic Web pages (1) 8. Work with a programming language, such as Visual Basic, for server side scripting (1) 9. Work with server side scripting to develop Web applications with/without session state (1) 10. Work with LINQ and/or SQL in Web applications (1) 11. Work with server side scripting to develop Web applications with database access (1) 12. Use AJAX in Web applications (1)			
Assessment	Method	No.	Percentage
	Midterm Exam	1	35%
	Lab Work	10 Lab Sessions (total 10%) + 2 Lab Quizzes (total 10%)	20%
	Final Exam	1	45%
	Attendance	Every lecture	-
Grading Policy 85-100 → A 80-84 → A- 75-79 → B+ 70-74 → B 66-69 → B- 63-65 → C+ 60-62 → C 57-59 → C- 54-56 → D+ 50-53 → D 45-49 → D- 0-44 → F			
Attendance: Lectures: <ul style="list-style-type: none"> Attendance will be taken in every lecture. Exams: <ul style="list-style-type: none"> If you miss midterm exam, you must submit a written report to your instructor stating your excuse within 3 days of that examination in order to be able to enter makeup exam. If you miss final exam, you must submit a written report to your instructor stating your excuse within 3 days of that examination in order to be able to enter makeup exam. If you miss both midterm and final exams and have a report for each, you will be able to enter makeup exam for the final exam. If you miss both midterm and final exams and do not enter makeup exam, you will get an “NG” grade. Labs: <ul style="list-style-type: none"> There will be no makeup for missed lab sessions. If you attend at least 9 lab sessions, you will get full grade. If you attend 8 lab sessions, you will get 9. More than 2 MISSED LAB SESSIONS automatically results in a definite losing the overall lab session grade completely. There will be no makeup for the missed lab quiz. If you miss, you will get zero. 			
Plagiarism Plagiarism (which also includes any kind of cheating in exams, assignments and lab works) is a disciplinary offence and will be dealt with accordingly. Furthermore, the penalty of plagiarism is to get zero grade for the corresponding exam, assignment or lab work.			
Contribution of Course to Criterion 5 Credit Hours for; Mathematics & Basic Science : 0, Engineering Sciences and Design : 4, General Education : 0			
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Meeting times and places Tuesdays 08:30-10:20, Room: CMPE238 Thursdays 08:30-10:20, Room: CMPE238 Thursdays 12:30-14:20, Room: CMPE238 (LAB.)			
Prepared by: Asst. Prof. Dr. Yiltan Bitirim			Date Prepared: February 18, 2019