

**MIDDLE EAST TECHNICAL UNIVERSITY**  
**Department of Computer Engineering --- Spring 2016**  
**Midterm date: April 26, 2017**

- 1. Course Code & Title:** SE541, Multimedia and Web Engineering
- 2. Content:** Introduction to WWW, HTTP, HTML, CSS, DHTML, JavaScript. Document Object Model(DOM), event model. XML, DTD, XSL. Server side scripting languages & frameworks, PHP, Ruby, etc.
- 3. Instructor:** Prof. Dr. Ahmet COSAR (cosar@metu.edu.tr)
- 4. Course Outline**
  - Week-1: Introduction to HTTP, TCP/IP
  - Week-2: HTML
  - Week-3,4: CSS, DHTML, DOM
  - Week-5,6,7: JavaScript, JQuery
  - Week-8,9,10: HTML5
  - Week-11: XML, DTD, XSL, JSON
  - Week-12: REST, AJAX
  - Week-13: PHP, Python
  - Week-14: Ruby, Rails
- 5. References**
  - Internet & World Wide Web How To Program, 2<sup>nd</sup> ed, Deitel&Deitel, 2005
  - AJAX, Rich Internet Applications, and Web Development for Programmers, Deitel &Deitel, 2008
  - HTML5 Designing Rich Internet Applications, Matthew David, 2010
  - Web Application Architecture-Principles, Protocols & Practice, Shklar & Rosen, 2003
  - Web services on Rails, Marshall, 2006
  - Instructor materials
- 6. Course Conduct**
  - Formal lectures, Project
- 7. Grading:** MT (30%), Final (40%), Project(30%).