



Al-Imam Muhammad Ibn Saud Islamic University
College of Computer and Information Sciences

Information Technology

Course Syllabus [Web Systems]

<i>Course Code</i>	<i>Course Name.</i>	<i>Credit Hours</i>	<i>Lec.</i>	<i>Lab</i>	<i>Prerequisites</i>
<i>IT 390</i>	<i>Web Systems</i>	<i>3</i>	<i>2</i>	<i>2</i>	<i>IT 281 IT Fundamentals</i>

Course Description:

This course aims to improve students' ability in developing web applications using Client-Side programming including XHTML, Cascading Style Sheet, JavaScript and PHP. Students will have strong knowledge about the methods and tools used in developing web applications. Students will know how the World Wide Web works to be able to design, implement and configure its services and applications effectively.

Course Topics:

Week	Tentative Schedule
Week 01	Introduction to Web Systems
Week 02	Introduction to HTML5
Week 03	Introduction to Cascading Style Sheets™ (CSS)
Week 04	JavaScript: Introduction to Scripting
Week 05	JavaScript: Control Statements I
Week 06	JavaScript: Control Statements II
Week 07	+ Mid-term exam
Week 08	JavaScript: Function I
Week 09	JavaScript: Function II
Week 10	JavaScript: Array I
	JavaScript: Array II
Week 12	+ Mid-term exam
Week 13	JavaScript: Objects I
Week 14	JavaScript: Objects II
Week 15	PHP
Week 16	[Final Exam]

Textbook and Resources:

Main Textbook:

- Learning Web App Development by Semmy Purewal (Mar 7, 2014)
- Web Services: Concepts, Architectures and Applications (Data-Centric Systems and Applications (Gustavo Alonso, Fabio Casati, Harumi Kuno, Vijay Machiraju, 2010)

Other Resources

- Patterns for Data-Driven Web Apps by Yannis Papakonstantinou (Apr 22, 2014)
- Web Application Architecture: Principles, Protocols and Practices by Leon Shklar and Rich Rosen (Apr 27, 2009)
- Guide to Secure Web Services by nist (Dec 20, 2013)

Project and Assignments

- A group project will be assign to the students. This project will build a moderate-size Web Site using techniques of HTML5, CSS, JavaScript and PHP.

Grade Distribution

Quizzes	10 %
Midterm Exam	20 %
Assignments	10 %
Lab contribution and Exams	20 %
Final Exam	40 %