

CS 4xxx Web Technologies

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Course Outline:

Introduction to fundamental web technologies: Markup languages, Layout design, Client and server side programming, Database and web integration.

Objectives:

- To learn the key web technologies and understand how they interact with each other,
- To develop new web applications and services by using some of these technologies.

Topics:

1. Markup Languages (1 week)
HTML, XHTML,
2. Layout design and organization (2 weeks)
CSS (cascading style sheets)
3. Client Side Programming
JavaScript (1 week)
DOM & AJAX (2 weeks)
4. XML (1 week)
5. Server Side Programming
Java Servlets (1 week)
JSP (PHP, ASP, CGI, Coldfusion) (2 weeks)
Web Services (e.g., SOAP) (2 weeks)
6. Database and Web integration (2 weeks)

Prerequisites

CS2413/1 System Programming and Recitation

Textbooks

Web Technologies: A Computer Science Perspective, Jeffrey C. Jackson, Prentice Hall, 2007.

Web Application Architecture: Principles, Protocols and Practices, Leon Shklar, Richard Rosen, December 2003.