

CPCS-403 Syllabus

Catalog Description

CPCS-403 Internet Application Programming

Credit: 3 (Theory: 3, Lab: 0, Practical: 0)

Prerequisite: CPCS-371 , CPCS-324

Classification: Elective

The objective of this course is to provide a broad overview of Internet and Web technologies. Topics include HTML, XHTML, CSS, client-side scripting (JavaScript), server-side scripting (PHP), Web data-base connectivity, and XML Technologies. The students will be encouraged to design, implement, and evaluate small-scaled Web projects in groups/teams.

Class Schedule

Meet 50 minutes 3 times/week or 80 minutes 2 times/week

Lab/Tutorial 90 minutes 1 times/week

Textbook

Paul J. Deitel, Harvey M. Deitel, Abbey Deitel, , "Internet and World Wide Web", Prentice Hall; 5 edition (2011-11)

ISBN-13 9780132151009 **ISBN-10** 0132151006

Grade Distribution

Week	Assessment	Grade %
4	Homework Assignments 1	5
6	Exam 1	15
8	Homework Assignments 2	5
12	Exam 2	15
13	Homework Assignments 3	5
14	Lab Exam	15
15	Project (Individual)	40

Topics Coverage Durations

Topics	Weeks
Introduction to Internet and Web technologies	1
Introduction to XHTML	2
CSS	1
Client-side programming	4
Server-side programming	4
Overview of XML technologies	2

Last Articulated

December 23, 2015

Relationship to Student Outcomes

a	b	c	d	e	f	g	h	i	j	k
x		x						x		

Course Learning Outcomes (CLO)

By completion of the course the students should be able to

- Describe the Web fundamentals, including Web Directory Structure. (a)
- Differentiate between client and server-side programming. (a)
- Develop static Web pages, including lists, tables and forms using XHTML. (c)
- Write XHTML programs to navigate from one page to another. (c)
- Use W3C validation service to validate XHTML pages. (a)**
- Distinguish between inline, embedded and external styles. (a)
- Apply CSS for uniform formatting to all pages in a Website. (c)**
- Write simple JavaScripts, including (array) variables, selection statements and loops. (c)
- Develop JavaScript code for client-side form validation. (c)**
- Distinguish between inline and traditional model of event handling. (a)
- Write simple event handlers that respond to various mouse events, including mouse move/click. (c)
- Discuss the functionality of a Web server. (a)
- Write regular expressions in PHP to search for patterns. (c)
- Write PHP scripts for server-side form processing, including form validation. (c)**
- Use SQL to perform various database operations. (i)
- Create PHP scripts to interact with a MySQL database. (c)**

Coordinator(s)

Mr. Noor-Ul-Qayyum Maroof, Lecturer