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

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

Coordinator(s)

Mr. Noor-Ul-Qayyum Maroof, Lecturer