

CPIS-358 Syllabus

Catalog Description

CPIS-358 Internet Applications and Web Programming

Credit: 3 (Theory: 3, Lab: 2, Practical: 1)

Prerequisite: CPIS-250

Classification: Department Required

The objective of this course is to equip students with the necessary knowledge to design and implement Internet applications. Topics include the specific technologies of these applications, how to employ them in building effective and efficient applications, the technical characteristics of the Internet protocols, the various structures of Internet-based application development, and the organization and security of business transactions conducted over intranets.

Class Schedule

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

Lab/Tutorial 90 minutes 1 times/week

Textbook

Harvey M. Deitel, Paul J. Deitel, Abbey Deitel, , "Internet & World Wide Web", Pearson Education; 5 edition (2012-01)

ISBN-13 9780273764021

ISBN-10 0273764020

Grade Distribution

Week	Assessment	Grade %
4	Graded Lab Work 1	3
6	Homework Assignments 1	8
7	Exam 1	10
9	Graded Lab Work 2	4
9	Homework Assignments 2	6
11	Graded Lab Work 3	4
12	Exam 2	10
14	Graded Lab Work 4	4
14	Group Project	15
15	Homework Assignments 3	6
16	Exam	30

Last Articulated

December 17, 2017

Relationship to Student Outcomes

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

Course Learning Outcomes (CLO)

By completion of the course the students should be able to

1. Demonstrate differentiate between the Internet and World Wide Web (WWW) and explain how the Web works from different perspectives (b)
2. Examine the strengths and weaknesses of the client-side and server-side scripting languages to web design and implementation (b)
3. Develop well-structured, standards-compliant, accessible Web pages by using HTML and its new input elements, tables, datalists , etc... (c)
4. Differentiate between CSS inline, embedded and external styles (b)
5. **Develop well-structured, standards-compliant CSS code to present HTML pages in different ways (i)**
6. **Create dynamic Web pages by using javaScript and Document Object Model (DOM) to change their appearance and/or the visibility of their elements. (b)**
7. Facilitate interactivity between users and Web sites by using event handling (i)
8. **Apply javaScript to validate the form's input data and solve functional and game problems (c)**
9. Analyze the structure of ASP.NET page and validate the form's input data (c)
10. **Create dynamic web pages that readily interact with SQL SERVER database to gather, create, update, insert, search and delete tables and records (c)**
11. Administer data in a Web page by using Grid view control (i)
12. **Adapt cookies and sessions to obtain information about users and manage server-side variables (c)**
13. Arrange (Create, update and delete) data from shopping cart by using the shopping features (i)

Coordinator(s)

Dr. Muhammad Aslam, Associate Professor

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Topics Coverage Durations

Topics	Weeks
Explain the difference between Internet and Web and Introducing the ASP.NET development environment	1
Introduction to HTML5	2
Introduction to CSS3	2
Introduction to JavaScript	1
Adding Dynamic Visualization to Web site by using JavaScript	1
Client side Form validation and dynamic form by using JavaScript	1
Server side Form Handling in ASP.NET	1
Interacting with Database and Web sites in ASP.NET	2
Search and Advance Search in ASP.NET	1
Using Cookie and Session in ASP.NET	1
Developing Shopping Cart in ASP.NET	2