CPIT-405 Syllabus

Catalog Description

CPIT-405 Internet Applications
Credit: 3 (Theory: 3, Lab: 0, Practical: 1)
Prerequisite: CPIT-370 , CPIT-252
Classification: Department Required

The objective of this course is to study Internet programming and Web application development. Students will learn basic principles and techniques for building Internet applications. It provides students with the basic Web page development technologies and an introduction to dynamic Web page development using client-side scripting. Topics include introduction to HTTP protocol and client side programming, XHTML, Cascading Style Sheets, JavaScript DOM, XML (Name space, DTD, Schema, XSLT, XPATH), RSS, and AJAX.

Class Schedule

Lab/Tutorial 90 minutes 1 times/week

Meet 50 minutes 3 times/week or 80 minutes 2 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 %
3	Graded Lab Work 1	2
4	Homework Assignments 1	3
5	Graded Lab Work 2	2
6	Graded Lab Work 3	2
7	Homework Assignments 2	3
7	Exam 1	20
10	Graded Lab Work 4	2
11	Exam 2	20
13	Graded Lab Work 5	2
14	Lab Exam	10
15	Homework Assignments 3	4
16	Exam	30

Last Articulated

December 18, 2017

Relationship to Student Outcomes

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

Course Learning Outcomes (CLO)

By completion of the course the students should be able to

1. Describe the essential concepts associated with internet architecture that supports web applications (a)
2. Understand the basic structure of the World-Wide-Web (a)
3. Identify the compatibility issues between the well-known browsers (a)
4. Use HTML5 markup tags for structuring web pages (i)
5. **Use HTML5 with appropriate CSS properties and elements for styling, formatting, and enhancing web pages (i)**
6. **Construct and validate web pages using HTML5 and CSS3 (i)**
7. **Implement client-side application logic using JavaScript (m)**
8. Handle event using JavaScript and DOM in client-side. (m)
9. Create and use extensible markup language (i)
10. Define XML related concepts and languages (a)
11. Compare and contrast between HTML and XML (a)
12. Compare between DTD and Schema for XML Documents (b)
13. **Validate XML documents for correctness. (b)**
14. Create JSON in JavaScript and insert JSON data into HTML (m)
15. Implement Server-Side script to serve client-side requests (a)
16. **Develop dynamic web pages using Ajax technology (m)**

Coordinator(s)

Dr. Khalid Alharbi, Assistant Professor

CPIT-405 Syllabus

Topics Coverage Durations

Topics	Weeks
The Internet and its Architecture	1
Introduction to HTML5	1
Cascading Style Sheets	1
JavaScript: Part 1 (Introduction, Control Statements & Functions)	3
JavaScript: Part 2 (Arrays & Objects)	1
Document Object Model (DOM)	1
JavaScript: Part 3 (Events)	2
PHP and MySQL	1
XML: Part 1 (Introduction, name space, DTD, Schema)	1
JavaScript Object Notation (JSON)	1
Rich Internet Application Server Technologies	2