

College of Computer Science and Information Systems

Department of Computer Science

Course Code : 457CSS-3

Internet Technologies

Contact Hour : 3(0)

Prerequisite : N/A

Coordinator -

## 2. Course Description

Study the history and fundamentals of the internet, Common web applications, types of web pages, web publishing and to learn about Internet protocols (HTTP, TCP/IP and FTP), Client/Server Architecture and the MVC approach in Website design. Programming with HTML, XHTML, cascading style sheets (CSS), and JavaScript, client and server side scripting, develop dynamic web application with PHP or ASP and MySQL. Finally, evaluating web sites and applications and learning about web privacy and various security issues.

## 3. Course Learning Outcomes

SL	By the end of this course, students should be able to:	Linkages to POs
1.	Recognize the fundamentals of internet, common web applications, their types, web security and privacy issues and social and commercial issues of web apps.	a(W)
2.	Recognize browsing tools, web development tools and web publishing.	a(W),k(W)
3.	Explain Internet protocols (HTTP, TCP/IP and FTP) and File/server, database server and 3-tier Client/Server Architecture.	i(S),k(S)
4.	Design a web page using MVC and other design approaches.	k(S)
5.	Develop dynamic web application with PHP or ASP and MySQL and programming with HTML, XHTML, cascading style sheets (CSS), and JavaScript, client and server side Scripting language.	c(S),j(W),k(S)
6.	Evaluate a web site	c(W)

## 4. Learning Resources

Text	Douglas E.Comer, Computer Networks and Internets with Internet Applications, Publisher: Prentice Hall, 5thEdition.
Reference	Deitel & Deitel, Internet & World Wide Web: How to Program, Prentice Hall, 4th Edition.
Reference	Robert W. Sebesta, Programming the World Wide Web, Addison-Wesley, Latest Edition.
Reference	David Powers, PHP Solutions: Dynamic Web Design Made Easy
Other	<a href="http://www.w3schools.com/">http://www.w3schools.com/</a>

## 5. Course Content : The list below provides a summary of the material that will be covered during the course

Week	Topics	References Book / Others Source	Special Event	Tutorial Activities	Lab Activities
1.	The Overview and fundamentals of the internet technologies, web applications and web related issues	1.1, 1.2, 1.4, & 2.2, 2.4, ref2 (1.5-1.8, 3.1-3.8)	N/A	N/A	N/A
2.	Web publishing	HAND SHEETS	N/A	N/A	Lab Activity 1
3.	Internet protocols (HTTP, TCP/IP and FTP)	4.4 to 4.7, 4.10 to 4.12; Ref2 (2.7); HAND SHEETS	Quiz 1	N/A	Lab Activity 2 + Lab Assessment1
4.	Client/Server Architecture	3.4 – 3.7	N/A	N/A	Lab Activity 3

5.	File server and Data base server Architecture	HAND SHEETS	N/A	N/A	Lab Activity 4
6.	3-tier Architecture	HAND SHEETS	Midterm Exam 1		Lab Activity 5 + Lab Assessment 2
7.	MVC Design approach	HAND SHEETS	N/A	N/A	Lab Activity 6
8.	Web design with CSS, HTML,XHTML and java script basics	Ref2 (4.1-4.11, 5.1-5.13, 6.1-6.7, 7.1-7.6, 8.1-8.7, 9.1-9.10, 1	Quiz 2	N/A	Lab Activity 7
9.	Web programming with PHP or ASP	Ref2(23.1 to 23.5, 25.1-25.7) <a href="http://www.w3schools.com/">http://www.w3schools.com/</a>	N/A	N/A	Lab Activity 8 + Lab Assessment 3
10.	Web programming with PHP or ASP	Ref2(23.1 to 23.5, 25.1-25.7) <a href="http://www.w3schools.com/">http://www.w3schools.com/</a>	Midterm Exam 2	N/A	Lab Activity 9
11.	Linking web to DB with MySQL	Ref2(22.1-22.8);Web Ref: <a href="http://www.w3schools.com/">http://www.w3schools.com/</a>	N/A	N/A	Lab Activity 10
12.	Web evaluation, security and privacy issues	HAND SHEETS	N/A	N/A	N/A
13.	Reviews , Questions and Answers	N/A	N/A	N/A	LAB FINAL
14.	Reviews , Questions and Answers	N/A	N/A	N/A	N/A

**6. Evaluation Scheme: The following list is the contribution of course components to the final grade for the course.**

Component	Weight (%)
Midterm Exams	30
Quizzes	6
Assignments	4
Lab Performance	10
Lab Final Exam	10
Final Exam	40
Total	100

