

Faculty of Computers and Information Technology

Design of Web-Based Applications

Information:

Course Code: CSC 495 Level: Undergraduate Course Hours: 3.00- Hours

Department: Faculty of Computers and Information Technology

Instructor Information :		
Title	Name	Office hours
Professor	Awad Hassballah Khalil Matous	13

Yousef Samir Saad Zaghloul Abdulazeem Allam

10

Area Of Study:

Teaching Assistant

This course includes an over view to the internet services. The student will be able to deal with different websites and search engines. In the lab, the students take the fundamentals of web page design and web site development. Topics include basic HTML/CSS, Client / Server programming, Server side controls, Brief overview Web services.

Description:

This course includes an over view to the internet services. The student will be able to deal with different websites and search engines. In the lab, the students take the fundamentals of web page design and web site development. Topics include basic HTML/CSS, Client / Server programming, Server side controls, Brief overview Web services.

Course ou	tcomes:		
a.Knowled	ge and Understanding: :		
1 -	Define the requirements of a web-based application		
2 -	Enhance Human-Computer Interaction using emerging technologies and tools		
3 -	Get aware of the other emerging tools and technologies for the Web		
4 -	Perform Research on the emerging technologies and tools for developing Web applications		
b.Intellect	ual Skills: :		
1 -	analyze the requirements and design the architecture of a web-based application		
c.Professi	onal and Practical Skills: :		
1 -	Use XHTML and JavaScript to develop the static pages with enforcing the necessary validation		
2 -	Use Style sheets to enhance the visualization of Web pages		
3 -	Use a server-side tool (ASP.NET) with C# to develop advanced Web applications		
4 -	Use emerging technologies and tools for Information Management on the Web (Use Connection Object ADO.NET and perform secure operations on databases).		
5 -	Use XML to develop Web Services		
6 -	Use XML as a generic communication language between different entities on the Web		
d.General	and Transferable Skills: :		
1 -	Work in a team		



- 2 deliver an oral presentation
- 3 Consider and apply professional ethics of the field

Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to the Internet and World Wide Web	4	2	2
Evolution of the Web, Web 2.0.	4	2	2
Design and Development of static Web pages using XHTML	4	2	2
Enhancing Human-Computer Interaction Using Scripting Languages	4	2	2
Enhancing Visualization Using Cascading Style Sheets (CSS)	4	2	2
Midterm Exam I	3	1	2
Developing Web Applications Using C# and ASP.NET	4	2	2
Information Structuring, Formatting and Management Using XML	4	2	2
XSL, XSLT, and XPath	4	2	2
Enhancing Dynamic Web Pages Using Ajax	4	2	2
Web Services	4	2	2
Midterm Exam II	3	1	2
Presentation/Discussion of Projects	4	2	2

Teaching And Learning Methodologies:

Lectures

Practical training

Self-Study

Presentation

Project

Web site searches

Course Assessment :						
Methods of assessment	Relative weight %	Week No	Assess What			
Æinal Exam	40.00	15				
ÁMid-Term Exam1	20.00	6				
ÁMid-Term Exam2	20.00	12				
Æroject	20.00	13				