





# **Course Specifications**

<b>Course Title:</b>	Web Programming and Applications
Course Code:	ICS 324
Program:	Information Technology
Department:	Computer Science and Information
College:	Science Az Al-Zulfi
Institution:	Majmaah University



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#### **A. Course Identification**

1. Credit hours:3
2. Course type
<b>a.</b> University College Department $$ Others
<b>b.</b> Required $$ Elective
<b>3.</b> Level/year at which this course is offered 6 <sup>th</sup> Level
4. Pre-requisites for this course (if any): Human Computer Interaction ICS 221
5. Co-requisites for this course (if any):Nil

#### **6. Mode of Instruction** (mark all that apply)

No	Mode of Instruction	<b>Contact Hours</b>	Percentage
1	Traditional classroom	48	80%
2	Blended	6	10%
3	E-learning	6	10%
4	Correspondence	-	-
5	Other	-	-

#### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours			
Contac	Contact Hours				
1	Lecture	30			
2	Laboratory/Studio	30			
3	Tutorial				
4	Others (specify)				
	Total	60			
Other 2	Other Learning Hours*				
1	Study	30			
2	Assignments	30			
3	Library				
4	Projects/Research Essays/Theses	10			
5	Others (specify)	30			
	Total	100			

\* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

#### **B.** Course Objectives and Learning Outcomes

#### **1. Course Description**

This course provides an introduction of web-development techniques that use HTML, CSS and JavaScript as a web development essentials including database connectivity (JDBC), Basics of PHP, Basics of Java for Web Development and Basics of Asp.Net as an advanced technique of web programming



#### 2. Course Main Objective

The students shall use technologies such as web servers, databases (integrated collections of data), PHP, ASP.NET, to build the server side of web-based applications.

These portions of applications typically run on "heavy-duty" computer systems on which organizations' business critical websites reside.

By mastering the technologies in these courses, students will be able to build substantial web based, client/server, database-intensive, "multitier" applications.

#### **3.** Course Learning Outcomes

	CLOs	Aligned PLOs
1	Knowledge:	
1.1	Use internet services and their applications.	a1
1.2	Understand the web browsing and how it can be used to access the web	al
	page.	
2	Skills :	
2.1	Develop websites, the database queries, and the use of MySQL	b3
	language.	
2.2	Program with web programming and its applications.	b2
2.3	Use current techniques, skills, and tools necessary for web	b2
	programming practice.	
2.4	Illustrate and use the web technologies effectively.	b3
3	Competence:	
3.1	Adhere professional, ethical, legal, security, and social issues and their	c1
	responsibilities that is related to the design of web browsing.	

#### **C.** Course Content

No	List of Topics	Contact Hours
1	Internet Fundamentals: addressing, routing, and servers.	4
2	Introduction to web development	4
3	What is Internet Programming?	4
4	Introduction to HTML	12
5	Working with Cascade Style Sheets - CSS	8
6	Introduction to XML	4
7	Introduction to Scripting language	4
8	Working with Client side Script language - JavaScript	8
9	Working with Server side script language – PHP and ASP	8
Total		

#### **D.** Teaching and Assessment

## **1.** Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	<b>Teaching Strategies</b>	Assessment Methods
1.0	Knowledge		
1.1	Use internet services and their applications.	Lectures Lab demonstrations	Written Exam Homework
1.2	Understand the web browsing and how it can be used to access the web page.	Case studies Individual presentations	assignments Lab assignments Class Activities Quizzes
2.0	Skills		
2.1	Develop websites, the database queries, and the use of MySQL language.	Lectures Lab demonstrations Case studies	Written Exam Homework assignments
2.2	Program with web programming and its applications.	Individual presentations Brainstorming	Lab assignments Class Activities
2.3	Use current techniques, skills, and tools necessary for web programming practice.		Quizzes Observations
2.4	Illustrate and use the web technologies effectively.		
3.0	Competence		
3.1	Adhere professional, ethical, legal, security, and social issues and their responsibilities that is related to the design of web browsing.	Small group discussion Whole group discussion Brainstorming Presentation	Written Exam Homework assignments Lab assignments Class Activities Ouizzes

#### 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	First written mid-term exam	6	15%
2	Second written mid-term exam	12	15%
3	Presentation, class activities, and group	Every	10%
3	discussion	week	10%
	Homework assignments	After	
4		each	10%
		chapter	
	Implementation of presented protocols	Every	
5		two	10%
		weeks	
6	Final written exam	16	40%
7	Total		100%

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

#### E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice : Office hours: Sun: 10-12, Mon. 10-12, Wed. 10-12 Email: m.wagieh@mu.edu.sa

#### **F. Learning Resources and Facilities**

#### **1.Learning Resources**

Required Textbooks	Paual Deitel, Harvey Deitel, and Abbey Deitel, Internet & World Wide Web, How to Program edition 5 <sup>th</sup> , Deitel, 2012, 978-0-13-215100-9		
Essential References Materials	Jennifer Niederst Robbins, Learning Web Design, edition 4th, Wiley, August 2012, 978-1-449-31927-4.		
Electronic Materials	-		
Other Learning Materials	-		

#### 2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classroom and Labs as that available at college of science at AzZulfi are enough.
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	Smart Board
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	N/A

#### **G.** Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Questionnaires (course evaluation) achieved by		
the students and it is electronically organized by	Students	Indirect
the university.		
Student-faculty management meetings.	Program	Direct
	Leaders	
Discussion within the staff members teaching	Peer Reviewer	Direct
the course		Direct
Departmental internal review of the course.	Peer Reviewer	Direct
Reviewing the final exam questions and a	Peer Reviewer	Direct



Evaluation Areas/Issues	Evaluators	Evaluation Methods
sample of the answers of the students by others.		
Visiting the other institutions that introduce the	Faculty Indi	Indirect
same course one time per semester.	indirect	

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) Assessment Methods (Direct, Indirect)

#### H. Specification Approval Data

Council / Committee	Dr. Mohamed Wagieh
Reference No.	
Date	08/09/2019

