



Course Specification

— (Bachelor)

Course Title: Multimedia and Web Design

Course Code: IT313

Program: Information Technology

Department: Information Technology

College: College of Computer and Information

Institution: Majmaah University

Version: 3

Last Revision Date: September 2022



Table of Contents

A. General information about the course:	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Students Assessment Activities	6
E. Learning Resources and Facilities	6
F. Assessment of Course Quality	6
G. Specification Approval	7



A. General information about the course:

1. Course Identification

1. Credit hours: 3(2,2,0)

2. Course type

- A. University College Department Track Others
- B. Required Elective

3. Level/year at which this course is offered: (Level 5/3rd Year)

4. Course general Description:

This course includes the following topics: Introduction to Internet, www, web2.0, Introduction to XHTML, CSS, JavaScript: Overview of Java Script Language, Java Script Data types, Variables, Control Structures, functions, arrays, objects, DOM, events, XML and RSS, AJAX, Rich Internet application Technologies: Web Servers (IIS and Apache), Database: SQL, MYSQL, PHP-basics, String Processing, and regular expressions, Form Processing, and business logic, connecting to the database, using cookies, dynamic content. An Overview of Java, Data Types, Variables, and Arrays, Operators, Control Statements, Introducing Classes, a Closer Look at Methods and Classes. Inheritance, Packages and Interfaces, Exception handling, Multithreaded Programming, I/O, Applets.

5. Pre-requirements for this course (if any):

IS 213- Fundamentals of Database

6. Pre-requirements for this course (if any):

7. Course Main Objective(s):

1. Identify attributes of web design.
2. Know the principles of multimedia design that are used to communicate information.
3. Learn how to create web pages.
4. Know technological, aesthetic, and human factors.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	100
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		





No	Mode of Instruction	Contact Hours	Percentage
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	30
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	CLO4: Know technological, aesthetic, and human factors	K1	Classroom Teaching, Lab Delivery	Group project, mini Final Exam
1.2				
...				
2.0	Skills			
2.1	CLO1: Identify attributes of web design	S1	Classroom Teaching, Lab Delivery	Midterm Exam, Final Exam
2.2	CLO2: Know principles of multimedia design that are used to communicate information	S1	Classroom Teaching, Lab Delivery	Midterm Exam, Final Exam
2.3	CLO3: Learn how to create web pages	S2	Classroom Teaching, Lab Delivery	LabExam1, LabExam2, Midterm Exam, Final Exam,



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
				Assignment1, Assignment2,
3.0	Values, autonomy, and responsibility			
3.1				
3.2				
...				

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to internet, www, web2.0	4
2	Introduction to XHTML: Heading, linking, images, lists	4
3	Tables, Forms, Internal Linking meta elements.	4
4	CSS: Different embedding styles, positioning elements, backgrounds, element dimensions	4
5	Box model and text flow, media types, user style CSS	4
6	JavaScript: Overview of Java Script Language, Java Script Data types, Variables, Control Structures, functions, arrays	4
7	JavaScript objects, DOM, events, XML and RSS	4
8	AJAX	4
9	Adobe Flash, Adobe Dreamweaver	4
10	Rich Internet application Technologies: Web Servers (IIS and Apache), Database: SQL, MYSQL	4
11	PHP-basics, String Processing, and regular expressions, Form Processing and business logic	4
12	Connecting to database, using cookies, dynamic content	4
13	An Overview of Java, Data Types, Variables, and Arrays, Operators, Control Statements, Introducing Classes, a Closer Look at Methods and Classes	4
14	Inheritance, Packages and Interfaces, Exception Handling, Multithreaded Programming, I/O, Applets	4
15	Review	4
Total		60



D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Lab Exam 1	Week 6	10%
2.	Midterm Exam	Week 8	20%
3.	Lab Exam 2	Week 13	10%
4.	Mini Project	Week 4	10%
5.	Assignments	Week 3, 11	10%
6.	Final Exam	Week 16	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Internet & World Wide Web: How to Program: International Version”, By Deitel & Deitel, 5th edition, Pearson Higher Education, 2011.
Supportive References	The complete reference, Herbert Schildt, McGraw Hill Education, 9th edition, 2014
Electronic Materials	<ul style="list-style-type: none"> Web References and downloads: http://lms.mu.edu.sa w3schools.com
Other Learning Materials	Dreamweaver Notepad++ Apache Server

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Laboratory- Capacity for 20 students to be seated.
Technology equipment (projector, smart board, software)	PC - Smart board - Computers in the Lab room, Oracle 11g
Other equipment (depending on the nature of the specialty)	Internet Connection

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	CLO Survey





Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of Students assessment	Instructor	Quizzes, Midexam, Assignments, Final Exam, and Indirect Survey
Quality of learning resources	Convener, instructors, HOD	Regular follow ups
The extent to which CLOs have been achieved	Instructor, TA	Performance in the exam for a particular CLO(s)
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	

