Course Specifications

Institution:	**Majmaah University, College of Science at Az Zulfi**
Academic Department :	**Department of Computer Science and Information.**
Programme :	**Computer Science and Information Program**
Course :	**Web Programming & Internet Technology (CSI-511)**
Course Coordinator :	Dr. Yaser Abdalla
Programme Coordinator :	Dr. Yosry Azzam
Course Specification Approved Date :	22/ 12 / 1435 H

A. Course Identification and General Information

1 - Course title :	**Web Programming & Internet Technology**	Course Code:	**CSI-511**

2. Credit hours : **(3)**

3 - Program(s) in which the course is offered: **Computer Science and Information**

4 – Course Language : English

5 - Name of faculty member responsible for the course: Dr. Yaser Abdalla

6 - Level/year at which this course is offered : **5th level**

7 - Pre-requisites for this course (if any) :

- **Computer Networks (CSI 322)**

8 - Co-requisites for this course (if any) :

- **N/A**

9 - Location if not on main campus :

N/A

10 - Mode of Instruction (mark all that apply)

A - Traditional classroom	√	What percentage?	**80 %**
B - Blended (traditional and online)	√	What percentage?	**10 %**
D - e-learning		What percentage?	……. %
E – Correspondence		What percentage?	……. %
F - Other	√	What percentage?	**10 %**

Comments :

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B Objectives

What is the main purpose for this course?
At the completion of this course, students should be able to do the following:

The course presents a number of powerful software technologies that will enable students to build systems that can integrate Internet and web components, and remote databases.
It presents the "client-side" and "server-side" of web programming. For the client side, a carefully paced introduction to using the popular JavaScript language and the closely related technologies of XHTML (Extensible Hyper Text Markup Language), CSS (Cascading Style Sheets). Novices will find that the material in the JavaScript chapters presents a solid foundation for the deeper treatment of scripting.
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.

Briefly describe any plans for developing and improving the course that are being implemented :
1. Using group discussion through the internet with course attending students.
2. Updating the materials of the course to cover the new topics of the field.
3. Increasing the ability of the students to implement a complete WEB based systems that are presented in the course.

C. Course Description

1. Topics to be covered

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

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30	-	-	30	-	60
Credit	30	-	-	15	-	45

3. Additional private study/learning hours expected for students per week.

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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	Use internet services and their applications	Lectures, Lab demonstrations, Case studies, and	Written Exam, Homework, assignments Lab assignments,
1.2	Develop websites, the database queries, and the use of MySQL language.		

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.3	Program with web programming and its applications.	Individual presentations.	Class Activities, and quizzes.
2.0	**Cognitive Skills**		
2.1	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, and quizzes.
2.2	Understand the web browsing and how it can be used to access the web page.		
2.3	Use current techniques, skills, and tools necessary for web programming practice.		
3.0	**Interpersonal Skills & Responsibility**		
3.1	Work in a group and learn time management.	• Discussion with students • Making students aware about time management in completing their assignments. • Counsel students how to make a good presentation in web technology. • Encourage students to help each other.	• Respecting deadlines. • Showing active class participation. • Helping other students to understand tasks in the class. • Giving clear and logical arguments • Performing seriously on midterms and final exams
3.2	Learn how to search for information through library and internet.		
3.3	Present a short report in a written form and orally using appropriate scientific language		
4.0	**Communication, Information Technology, Numerical**		
4.1	Communicate with teacher, ask questions, solve problems, and use computers.	• Exercises • Problem solving • oral quizzes • Essay questions Encourage students to Implement a real world web information system.	• Write reports • Exercises related to specific topics
4.2	Illustrate and use the web technologies effectively.		
4.3	Discus questions during the lecture, work in groups, communicate with each other and with me electronically, and periodically visit the sites I recommended.		
5.0	**Psychomotor: N/A**		

5. Schedule of Assessment Tasks for Students during the Semester:

	Assessment task	Week Due	Proportion of Total Assessment
1	First written mid-term exam	6	15%
2	Second written mid-term exam	12	15%

3	Presentation, class activities, and group discussions	Every week	10%
4	Homework assignments	After Every chapter	10%
5	Implementation of web based systems	Every two weeks	10%
6	Final written exam	16	40%
7	Total		100%

D. Student Academic Counseling and Support

Office hours: Sun: 10-12, Mon: 10-12, Wed: 10-12
Office call: Sun: 12-1 and Wed: 12-1

Email: y.salem@mu.edu.sa

E. Learning Resources

1. List Required Textbooks :
Jennifer Niederst Robbins, Learning Web Design, Fourth Edition, August 2012,
ISBN: 978-1-449-31927-4.

2. List Essential References Materials :
- Steve Schafer , Web Standards Programmer's Reference: HTML, CSS, JavaScript, Perl, Python, and PHP, Wrox, 2005,
- Bryan Pfaffenberger, HTML, XHTML, and CSS Bible (Bible) 3rd Edition, Wiley, 2004.

3. List Recommended Textbooks and Reference Material :
- Craig Grannell, Web Designer's Reference, January 3, 2005, ISBN13: 978-1-59059-430-8

4. List Electronic Materials :
- Video and presentation are available in course page
- www.w3schools.com/
- http://faculty.mu.edu.sa/ysalem/

5. Other learning material :
- **N/A**

F. Facilities Required

1. Accommodation
• Classrooms and Labs, as those that are available at college of science at AzZulfi.
2. Computing resources
• **Education console**
• **Smart Board**
3. Other resources
• **None**.

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching:
• Questionnaires (course evaluation) achieved by the students and it is electronically organized by the university.
• Student-faculty management meetings.
2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor :
• Discussion within the staff members teaching the course
• Departmental internal review of the course.
3 Processes for Improvement of Teaching :
• Periodical departmental revision of methods of teaching.
• Monitoring of teaching activates by senior faculty members.
• Training course.
4. Processes for Verifying Standards of Student Achievement
• It is planned to:-
• Check marking of a sample of student work by an independent faculty member.
• Exchange periodically, and remark a sample of assignments with a faculty member in one of distinguished institutes .
5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement :
• Assessment and evaluation of the level of achieving the course outcomes through a continuous improvement process (part of a quality assurance system established by the university)
• Consequently, actions are to be taken to improve the course delivery when necessary.
• Review of the course objectives, outcomes and curriculum at about 2 years span

Course Specification Approved
Department Official Meeting No (…..) Date 22 / 12 / 1435 *H*

Course's Coordinator	**Department Head**
Name : Dr. Yaser Abdalla	*Name :* Dr. Yousry Azzam
Signature : ………………………	*Signature :* ………………………
Date : 22/12/1435 *H*	*Date :* 22/12/1435 *H*