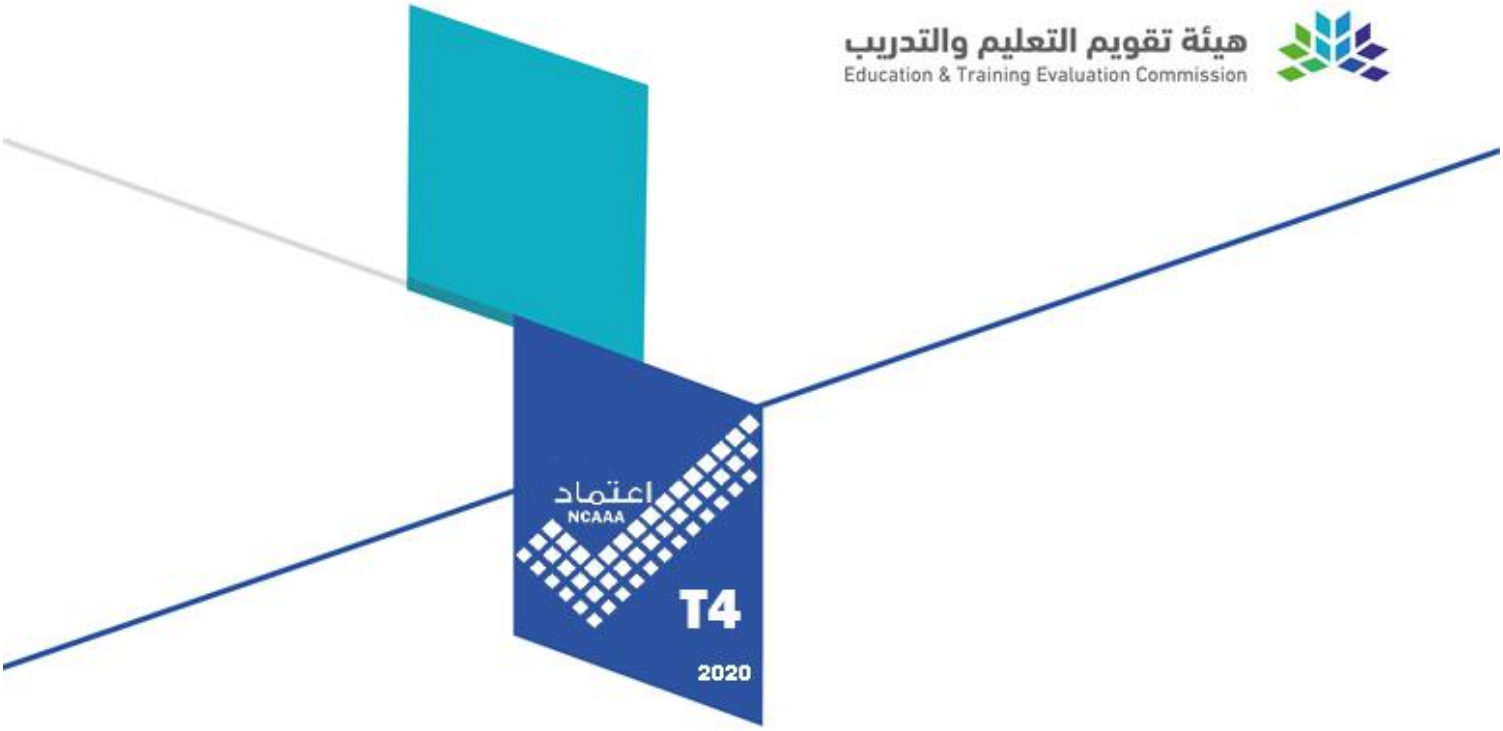
هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission



Course Specifications

Course Title:	Web Programming and Internet Technology
Course Code:	**CSI 511**
Program:	**Computer Science and Information Technology**
Department:	**Computer Science and Information.**
College:	**College of Science at Az Zulfi**
Institution:	**Majmaah University**

Table of Contents

A. Course Identification

1. Credit hours:3
2. Course type **a.** University ☐ College ☐ Department ☑ Others ☐ **b.** Required ☑ Elective ☐
3. Level/year at which this course is offered: 7th
4. Pre-requisites for this course (if any)**:CSI322**
5. Co-requisites for this course (if any)**:** None

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	42	70%
2	**Blended**	6	10%
3	**E-learning**	6	10%
4	**Correspondence**	0	0%
5	**Other**	6	10%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	30
2	**Laboratory/Studio**	20
3	**Tutorial**	10
4	**Others** (specify)	
	Total	60

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

In these course, we present a number of powerful software technologies that will enable students to build systems that can integrate Internet and web components, and remote databases. We present the "client-side" and "server-side" of web programming. For the client side we present 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 third class concentrates

on using 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, you'll 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	k2
1.2	Develop websites, the database queries, and the SQL language.	k2
1.3	Program with web programming and its applications.	k2
2	**Skills :**	
2.1	Adhere professional, ethical, legal, security, and social issues and their responsibilities that related to the design of web browsing.	s3
2.2	Understand the web browsing and how it can be used to access the web page.	s3
2.3	Use current techniques, skills, and tools necessary for web programming practice.	s3
3	**Competence:**	
3.1	Adhere professional, ethical, legal, security, and social issues and their responsibilities that related to the design of web browsing.	c2
3.2	Understand the web browsing and how it can be used to access the web page.	c2
3.3	Use current techniques, skills, and tools necessary for web programming practice.	c4
3.4	work cooperatively in a small group environment.	c4
3.5	Save time and space in each task.	c4

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	12
Total		60

D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge**		
1.1	Use internet services and their applications	Lectures Lab demonstrations Case studies Individual presentations	Mid-terms exams Lab exam Homeworks Discussions Final exams
1.2	Develop websites, the database queries, and the SQL language.		
1.3	Program with web programming and its applications.		
2.0	**Skills**		
2.1	Adhere professional, ethical, legal, security, and social issues and their responsibilities that related to the design of web browsing.	Lectures Lab demonstrations Case studies Individual presentations	Mid-terms exams Lab exam Homeworks Discussions Final exams
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	**Competence**		
3.1	Adhere professional, ethical, legal, security, and social issues and their responsibilities that related to the design of web browsing.	Small group discussion Whole group discussion Brainstorming Presentation	Discussions Presentations
3.2	Understand the web browsing and how it can be used to access the web page.		
3.3	Use current techniques, skills, and tools necessary for web programming practice.		
3.4	work cooperatively in a small group environment.		
3.5	Save time and space in each task.		

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 discussion**	**Every week**	**10%**
4	**Homework assignments**	**After every chapter**	**10%**
5	**Practical exam**	**15**	**10%**
6	**Final written exam**	**16**	**40%**
7	**First written mid-term exam**	**6**	**15%**
8	**Second written mid-term exam**	**12**	**15%**

***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 : 1. 6-office hours per week in the lecturer schedule. 2. The contact with students by e-mail , mobile, office telephone and website

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	Dick Grune, Kees van Reeuwijk, Henri E. Bal, Ceriel J.H. Jacobs, Koen Langendoen, "Modern Compiler Design", ISBN 978-1-4614-4698-9, Springer New York Heidelberg Dordrecht London, 2nd 2012.
Essential References Materials	**https://www.isi.edu/~pedro/Teaching/CSCI565-Spring16/** •
Electronic Materials	• **https://www.coursera.org/**
Other Learning Materials	Video and presentations that are available with the instructor.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	□ Class Rooms □ Computer Labs □ Library
Technology Resources (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)	None

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Analysis of students' results.	Teaching Staff	Direct
Observation during work.	Teaching Staff	Indirect
Students' evaluations.	Teaching Staff	Direct
Colleagues' evaluations.	Peer Reviewer	Indirect
Evaluation questionnaire filled by the students.	Students	Indirect
Interview a sample of students enrolled in the course to take their opinions.	The head of department	Indirect

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Analysis of students' results.	Teaching Staff	Direct

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	DEPARTMENT COUNCIL
Reference No.	
Date