

Course Syllabus

1	Course title	Web application development
2	Course number	1904120+1931102
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	3
4	Prerequisites/corequisites	1904101
5	Program title	Business Information Technology
6	Program code	4
7	Awarding institution	The university of Jordan
8	Faculty	King Abdullah II School for Information Technology
9	Department	Information Technology Department
10	Level of course	1 st year
11	Year of study and semester (s)	2022/2023
12	Final Qualification	Bachelor (Bsc)
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	Last update: 2/10/2022
16	Required/ Elective	Required

17. Course Coordinator:

Mariam Itriq
KASIT 3rd floor office# 303
m.itriq@ju.edu.jo

18. Other instructors:

Prof. Hamed Al-Bdour (h.bdour@ju.edu.jo)

Miss Heba Mesleh (H.mesleh@ju.edu.jo)

19. Course Description:

This course aims to improve students' ability in developing web applications using Client-Side programming including XHTML, Cascading Style Sheet and JavaScript. Students will have strong knowledge about the methods and tools used in developing web applications. Students will know how the World Wide Web works to be able to design, implement and configure its services and applications effectively.

20. Course aims and outcomes:

A- Aims:

The aim of this course is to enhance students understanding of systems that are connected with a network with concentration on the role of both server and client in sending and receiving data.

B- Intended Learning Outcomes:

On successfully completing the course, the students are expected to:

1. Understand the fundamentals of the Internet and the World Wide Web, basics of HTTP protocol, web architecture and client-side static and dynamic programming. ABET SO(1)
2. Use HTML to build static website with valid content. ABET SO(1)
3. Use Cascading Style Sheets CSS to create a presentation for web content. ABET SO(1)
4. Use JavaScript to create dynamic and real web applications. ABET SO(6)
5. Design and implement a fully functional client-side web application. ABET SO(6)
6. Work in a group in order to implement a web-based project. ABET SO(6)
7. Present the (project) and make a demo. ABET SO(6)

21. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Reading from textbook
Fundamentals of the Internet (i.e., history, standards, connectivity, searching, FTP, Mail and HTTP). How Web server and HTTP protocol work. Students should be able to distinguish between client-side programming and server-side programming.	1	All	1	Ch1
Introduction to HTML 5 <ul style="list-style-type: none"> • Editing HTML 5 (plus the well-formed HTML 5 document requirements) • Headers • Linking • Images • Special characters and line breaks • Unordered lists • Nested and Ordered lists • Tables • Forms • Meta elements 	1	All	2	Ch4
Task 1				

<p>Cascading Style Sheets (CSS 3)</p> <ul style="list-style-type: none"> • Inline Styles • Embedded Style Sheets • Conflicting Styles • Linking External Style Sheets • Positioning Elements • Backgrounds • Element Dimensions • Text Flow and the Box Model 	٢	All	3	Ch5
Task 2			5, 6, and 7	
<p>JavaScript: Introduction to Scripting(textbook Ch6)</p> <ul style="list-style-type: none"> • Obtaining User Input with promptDialogs • Memory concepts • Arithmetic • Decision making: Equality andRelational Operators 	2,٣		4	Ch6
<p>JavaScript: Control Statements I</p> <ul style="list-style-type: none"> • Algorithms • Pseudocode • Control Statements • if Selection Statement • if ... else Selection Statement • while Repetition Statement • Counter-Controlled Repetition • Sentinel-Controlled Repetition • Nested Control Structures • Assignment Operator • Increment and DecrementOperators 	3		4	Ch7
<p>JavaScript: Control Statements II</p> <ul style="list-style-type: none"> • Essentials of Counter-ControlledRepetition • for Repetition Statement • switch Multiple-Selection Statement • do ... while repetition statement • break and continue statements • Labelled break and continuestatements • Logical Operators 	3,4	All	4	Ch8

JavaScript: Functions <ul style="list-style-type: none"> • Program Modules in JavaScript • Programmer-Defined Functions • Function Definitions • Scope Rules • Global functions • Random-Number Generation • Processing Forms with JavaScript Function (see uploaded examples). 	4	All	4	Ch9
	5		4	Ch10
<ul style="list-style-type: none"> • One Dimensional Arrays Declaring, Allocating, Processing and Passing one dimensional Array to function 	5,6		4	Ch10
JavaScript: Objects <ul style="list-style-type: none"> • Thinking About Objects • Math Object • String Object • Date Object 				Ch11
Task 3				

22. Teaching Methods and Assignments:

Teaching (T) Strategies

Class Contact is 3 Hours per week. The Course will be delivered using different means like lecture, presentations, seminars, discussion and case studies.

Learning (L) Methods

Students attend classes, ask questions and participate in discussions, do the homeworks, present the assignments and demo their works. A student will use the lab and select a programming language to implement the assignments. Students will access the e-learning platform for more instruction and supported learning materials

Assessment (A) Methods

There will be an exam evaluation of students' performance:

- 1- Formal Exam, i.e. Final Exam
- 2- Formal Quizzes.

Every student is expected to completely adhere to the exam dates and times, absolutely no exceptions will be given.

23.Course Policies:

A- Attendance policies:

Maximum allowable absence 15% of number of Lectures/Semester

B- Absences from exams and handing in assignments on time:

It is the student's responsibility to ensure that he/she is aware of all assignments, announcements and contents of missed sessions

C- Health and safety procedures:

Practical sessions need labs which are suitable adjustable chairs, safe computers and wires should be well organized.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

It is the student's responsibility to ensure that he/she is adhere with cheating, plagiarism, misbehaviour

E- Grading policy:

Intended (Tentative) Grading Scale:

Range	LG	الحرف	Range	LG	الحرف	Range	LG	الحرف
91 - 100	A	أ	74 - 77	B-	-ب	56 - 60	D+	+د
86 - 89	A-	-أ	70 - 73	C+	+ج	50 - 55	D	د
82 - 85	B+	+ب	66 - 69	C	ج	45 - 49	D-	-د
78 - 81	B	ب	61 - 65	C-	-ج	0 - 44	F	هـ

Grading and Evaluation Criteria: 100 points distributed as follows:

Weight	Criteria	Comments
30%	MidTerm Exam	
15%	Quiz	
15%	Homework's	
40%	Final Exam	

F- Available university services that support achievement in the course: Computer Labs.

G- Statement on Students with disabilities

Students with Disabilities: Students with disabilities who need special accommodations for this class are encouraged to meet with the instructor and/or their academic advisor as soon as possible. In order to receive accommodations for academic work in this course, students must inform the course instructor and/or their academic advisor, preferably in a written format, about their needs no later than the 4th week of classes.

23. Course Policies:

A- Attendance policies:

Maximum allowable absence 15% of number of Lectures/Semester

B- Absences from exams and handing in assignments on time:

It is the student's responsibility to ensure that he/she is aware of all assignments, announcements and contents of missed sessions

24. References:

Textbook

Internet & World Wide Web- How to Program, 5th Edition, P.J. Deitel, H. M. Deitel, Prentice Hall, 2012

Recommended Web Sites: www.w3schools.com

25. Additional information:

1. Tardiness and/or absenteeism will have a negative impact on the course grade.

2. الامتناع المدير عن حضور المحاضرات أو الدروس أو عن الأعمال الأخرى التي تقضي الأنظمة بالموظابة عليها ، وكل تحريض على هذا الامتناع سوف يؤدي الى حرمان الطالب من المادة المعنية.

3. في حالة التغيب عن الامتحانين الأول و الثاني لن يكون هناك امتحان تعويضي الا في حالة وجود عذر وحالة طارئة من المستشفى. على الطالب براز العذر لمدرس المادة في فتره لا تتجاوز الثلاثة ايام من تاريخ الامتحان, وللمدرس الحق في قبول او رفض العذر , وحسب التعليمات

Concerns or complaints should be expressed in the first instance to the module lecturer; if no resolution is forthcoming then the issue should be brought to the attention of the module coordinator (for multiple sections) who will take the concerns to the module representative meeting. Thereafter problems are dealt with by the Department Chair and if still unresolved the Dean and then ultimately the Vice President. For the final complaints, there will be a committee to review grading the final exam.

Name of Course Coordinator: *Mariam itriq* Signature:  Date: 2/10/2022

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to: Head of Department
Assistant Dean for Quality Assurance Course File