1	Course title	Web application development 1
2	Course number	1904121
2	Credit hours (theory, practical)	3
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	Business Information Technology Department
10	Level of course	1 nd year
11	Year of study and semester (s)	2014/2015
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: 9/2015
16	Required/ Elective	Required

17. Course Coordinator:

Dr. Ja'far Alqatawna KASIT 3rd floor office# 312 or office# 302 2-3:30 Sunday, Tuesday, Wednesday j.alqatawna@ju.edu.jo

18.0ther instructors:

Dr. Ali Rodan Dr. Hossam Faris

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:

INTENDED COURSE OUTCOMES

On successfully completing the course, the students are expected to have gained good knowledge of:

- A- Knowledge and understanding: Students should
- A1: Understand the fundamentals of the Internet and the World Wide Web.
- A2: Understand basics of HTTP protocol.
- A3: Understand web architecture and client-side programming.
- B- Intellectual skills: with ability to ...
- B1: Use XHTML build static website with valid content.
- B2: Use Cascading Style Sheets CSS to create a presentation for web content.
- B3: Use JavaScript to create dynamic and real web applications.
- C- Subject specific skills with the ability to ...
- C1: Design and implement a fully functional client-side web application.
- D- Transferable skills with ability to
- D1: Work in a group in order to implement a web-based project.
- D2: Present the (project) and make a demo.

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	A1 A2 A3	Ch1
Introduction to XHTML • Editing XHTML (plus the well-formed XHTML document requirements) • Headers • Linking • Images • Special characters and line breaks • Unordered lists • Nested and Ordered lists • Tables	2-6	All	B1	Ch4

• Forms	1			
Meta elements				
Project – Task 1			C1 D1 D2	
Cascading Style Sheets (CSS)		All	B2	Ch5
• Inline Styles		7111	D2	GIIS
Embedded Style Sheets				
Conflicting Styles				
Linking External Style Sheets				
 Positioning Elements 				
Backgrounds				
 Element Dimensions 				
Text Flow and the Box Model				
Text How und the Box Woder				
Project – Task 2			C1 D1 D2	
JavaScript:			В3	Ch6
• Introduction to Scripting				
(textbook Ch6)				
Obtaining User Input with				
prompt Dialogs	7-10			
Memory concepts				
Arithmetic				
 Decision making: Equality and 				
Relational Operators				
JavaScript: Control Statements I				Ch7
 Algorithms 			B3	
 Pseudocode 				
 Control Statements 				
 if Selection Statement 				
• if else Selection Statement				
 while Repetition Statement 	11			
Counter-Controlled Repetition				
Sentinel-Controlled Repetition				
Nested Control Structures				
Assignment Operator				
• Increment and Decrement				
Operators				
Lease Contract Contract Contract H		A 11	D2	CLO
JavaScript: Control Statements II		All	B3	Ch8
Essentials of Counter-Controlled Baraticians				
Repetition				
for Repetition Statementswitch Multiple-Selection				
• switch Multiple-Selection Statement				
• do while repetition statement	12			
 do while repetition statement break and continue statements 				
 Labelled break and continue 				
statements				
Logical Operators				
Logical Operators				
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JavaScript: Functions	13	All	В3	Ch9
JavaScript: Objects Thinking About Objects Math Object String Object Date Object document Object window Object	14		В3	Ch10
One Dimensional Arrays • Declaring, Allocating, Processing and Passing one dimensional Array to function	14		B3	Ch11
Project – Task 3			C1 D1 D2	

22. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Lecture, lab and presentation

23. Evaluation Methods and Course Requirements:

24. 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

25. Required equipment:

 Personal computers 	ın	а	iab.
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2- Data show

3- text editor and web browser

26. References:

Textbook

Internet & World Wide Web- How to Program, 4th Edition, P.J. Deitel, H. M. Deitel, Prentice Hall, 2008

Recommended Web Sites:

www.w3schools.com