



The University of Jordan
Accreditation & Quality Assurance Center

Web Application Development 1
194121

COURSE Syllabus

1	Course title	Web application development 1
2	Course number	1904121
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	Business Information Technology Department
10	Level of course	1 st year
11	Year of study and semester (s)	2017/2018
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: 2/2018
16	Required/ Elective	Required

17. Course Coordinator:

Dr. Hossam Faris
 KASIT 3rd floor office# 316
 hossam.faris @ju.edu.jo

18. Other instructors:

Dr. Ibrahim Aljarah
Dr. Jamal Alsakran
Dr. Bashar Alshboul

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.

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(m)**
2. Use XHTML to build static website with valid content. **ABET SO(i)**
3. Use Cascading Style Sheets CSS to create a presentation for web content. **ABET SO(i)**
4. Use JavaScript to create dynamic and real web applications. **ABET SO(i)**
5. Design and implement a fully functional client-side web application. **ABET SO(c)**
6. Work in a group in order to implement a web-based project. **ABET SO(d)**
7. Present the (project) and make a demo. **ABET SO(d)**

21. Topic Outline and Schedule:

Topic	Week	Instruct or	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 	2-6	All	2	Ch4
Project – Task 1			5, 6, and 7	
Cascading Style Sheets (CSS 3) <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 		All	3	Ch5

Project – Task 2			5, 6, and 7	
JavaScript: Introduction to Scripting (textbook Ch6) <ul style="list-style-type: none"> • Obtaining User Input with prompt Dialogs • Memory concepts • Arithmetic • Decision making: Equality and Relational Operators 	7-10		4	Ch6
JavaScript: Control Statements I <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 Decrement Operators 	11		4	Ch7
JavaScript: Control Statements II <ul style="list-style-type: none"> • Essentials of Counter-Controlled Repetition • for Repetition Statement • switch Multiple-Selection Statement • do ... while repetition statement • break and continue statements • Labelled break and continue statements • Logical Operators 	12	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). 	13	All	4	Ch9
JavaScript: Objects <ul style="list-style-type: none"> • Thinking About Objects • Math Object • String Object • Date Object • document Object • window Object 	14		4	Ch10

One Dimensional Arrays <ul style="list-style-type: none"> Declaring, Allocating, Processing and Passing one dimensional Array to function 	14		4	Ch11
Project – Task 3			5, 6, and 7	

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:

- Midterm Exam 30%
- Project 20%
(Project 1st task 5%, Project 2nd task 5%, Project final task 10%)
- Assignments 10%
- Final Exam 50 %

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:

- 1- Personal computers in a lab.
- 2- Data show
- 3- text editor and web browser

26. 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

27. 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 بالمواطبة 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.
4. 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.
5. For more details on University regulations please visit <http://www.ju.edu.jo/rules/index.htm>

Name of Course Coordinator: -----Signature: ----- Date: -----

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