جامعة العلوم التطبيقية الخاصة
(ج.ع.ت)
عمان – الأردن

APPLIED SCIENCE PRIVATE UNIVERSITY
(A.S.U)
AMMAN - JORDAN

فلنجعل من أردن العرب جامعة للعرب

Faculty: Faculty of Information Technology
Department: Computer Science
Academic Year: 2021/20202
Semester: First

(Course Syllabus)

Subject Name	*Credit Hours*	*Course No.*	*Prerequisite*	*Concurrent course*
Web-Based Programming	3	1301236	1301108	

Coordinator Name	*Lecturer/s*	*Room No.*	*E-mail*	*Course website*	*Office Hours*
I. Balqees Aldabaybah	Dr. Mahmoud Albashayreh	1217	m_albashayreh@asu.edu.jo	http://eduGate.asu.edu.jo	Posted on office door
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Course Description:
This course covers an introduction to Internet history, World Wide Web, discussion of web browsers, searching techniques, and the use of helper applications and plug-ins for video and sound. The course covers how web pages are created using HTML 5, and how CSS3 is used to separate content from and style. Dynamic HTML, JavaScript are also covered. The student will learn how to create a World Wide Web pages using all these technologies.

Course Aims:
This course aims at providing students with the know-how in building static and dynamic web sites. By the end of this course, students are expected to be able to use the various tools, programing languages, design methods, and overall knowledge of Internet Technology, to produce reasonably professional static and dynamic web sites.

Student Outcomes:
SO-(1) Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
SO-(2) Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

Intended Learning Outcomes:
Following the successful completion of this course, the student should be able to:

A. Knowledge and Understanding:
A1. Identify World Wide Web, types of web browsers, and HTML elements.

B. Subject Specific Skills:
B1. Use HTML5 to create a World Wide Web pages.
B2. Apply CSS3 in web pages to separate the content from the style.
B3. Apply multimedia and drawing functions in web pages.

C. Cognitive and Intellectual Skills:
C1. Produce dynamic web pages by using JavaScript.

D. Transferable Skills:

Teaching and Learning Methods:

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

ILOs	*Learning Methods*	*Evaluation Methods*
A1	Lecturing and practical sessions	Exams and quizzes.
B1 – B3	Lecturing, Practical sessions and assignments.	Exams, quizzes, Assignments and experiments in the lab.
C1	Practical sessions, assignments and projects.	Exams, Assignments and experiments in lab.

Learning skills:

Course Content:

Week	*Main Topic (Chapter Title)*	*Topic's Details*	*Exams/ /Quizzes/ Holidays*	*Main Reference (Chapter #)*
1	Publishing Web Content	Internet, WWW, client, server, web page, home page , URL, IP address, DNS, HTTP		[1]chapter 1, [2] Introduction
	Publishing Web Content and HTML structure	Web Browser, Web Server,HTML structure, HTML markeup, tags and elements		[2] chapter 1
2	Understanding HTML	HTML Structure, HTML text, Headings, paragraphs, bold, italic		[2] chapter 1,2
		, semantic and structural markeup, lists (numbered, and bullets)		[2]Chapter 3
3	Using External and Internal Links	Creating links to other sites, and between pages, and email links	Excersise 1	[2]Chapter 4 &[1] PartII lesson 7
	Understanding HTML and Working with Web-Based Forms	Creating a form, text input, input controls, displaying data from a form, submitting a form.	Excersise 1	[2]Chapter 7 & [1] Chapter 27
4	HTML Forms	Textarea, Select, fieldset, range	Excersise 2	[2]Chapter 7 & [1] Chapter 27
	Understanding HTML and Using Tables to Display Information	How to create tables, colspan and rowspan, table borders	Excersise 2	[2] Chapter 6 & [1] Chapter 6
5	Understanding HTML media	Add image, videos and audios	Excersise 3	[2] Chapter 5 & 9
		HTML videos	Excersise 3	[2] Chapter9 & [1] Chapter 6
6	Understanding Cascading Style Sheet	What is CSS, how it works, rules, properities and values	Excersise 4	[2] Chapter 10 & [1] Chapter 3
		How to write CSS, inline, embedded, selectors, external CSS	Excersise 4	[2] Chapter 10 & [1] Chapter 3

7	CSS colors	Working with colors	Excersise 5	[2] Chapter 11
	Style CSS elements	Understand different CSS properities for text, lists, table, images.	Excersise 5	[2] Chapter 12,14,26
8	Using CSS Boxes	Control size of box, box model concept, element width	Excersise 6	[2]Chapter 13 & [1] Chapter 10
		Border, margin, padding	Excersise 6	[2]Chapter 13 & [1] Chapter 10
9	Using CSS layout	Element positioining, display, float	Mid Exam	[2] Chapter 15
10	Responsive design	Numeric arrays and string arrays.		[1] part IV
		Bootstrap library		W3school + getbootstrap.com
11	Using JavaScript basics,covept of models and objects	Interactivity, examples,what is JS, object and properites		[3] introduction + chapter 1a-1b
		Writing script in JS, statements, comments		[3] chapter 1c, chapter 1b
12	Basic JS instructions	Getting started, variables , arrays, expressions, operators.	Excersise 7	[3] Chapter 2
	JS functions and objects	Using Variables, expressions and operators. Using Functions and passing parameters.	Excersise 7	[3] Chapter 3
13	Using JavaScript decisions and loops	If, comparison operators, switch, for,while, do..while.	Excersise 8	[3] Chapter 4
	Working with Document Object Model (DOM	DOM tree, working with it, accessing elements	Excersise 8	[3] Chapter 5
14	JS events	Interactions create events: Click, hover, swipe Event triggre code	Excersise 9	[3] Chapter 6
		Code responds to user	Excersise 9	
15	JQuery	What is Jquery, select elements		[3] Chapter 7 & [1] Chapter 26

		Animate elements, handle events	Final project submission	[3] Chapter 7
16			Final Exam	

Grade Distribution:
Your course grade will be determined by the following:

Assessment Method	*Final Grade %*	*Due Date*
- MID Exam (paper-based)	30%	TBA
- Project, Assignments and Quizzes	30%	TBA
- Final Examination (paper-based)	40%	TBA

Distribution of examination material (may vary depending on material included)

Course Policies:

A. Attendance policies:

- Attendance: Mandatory.
- First warning – with 3 absences
- Last warning – with 6 absences
- Failing in the subject – with 8 absences

B. Absences from exams and handing in assignments on time:
Will result in zero achievement unless health report or other significant excuse is documented.

C. Health and safety procedures:

D. Honesty policy regarding cheating, plagiarism, misbehavior:
The participation, the commitment of cheating will lead to applying one or more of the following penalties together:

1. Failing the subject he/she cheated at
2. Failing the other subjects taken in the same course
3. Not allowed to register for the next semester. The summer semester is not considered as a semester

E. Grading policy:
Exams and Quizzes:

- MID Exam: 30 points
- Assignments/quizzes: 30 points
- Final Exam: 40 points
- Total: 100 points

F. Available university services that support achievement in the course:
Teacher assistants (TAs) help students to improve their programming skills, lecturers'office hours, review sessions organized by students.

Required Equipment and Tools:

- Notepad++
- VSC

Make-up Exam Policy:
Make-up exams will be offered for valid reasons. They may be different from regular exams in content and format.

Textbooks information:
Julie Meloni, Jennifer Kyrnin , Sams Teach Yourself HTML, CSS, and JavaScript All in One: Covering HTML5, CSS3, and ES6, Third Edition,2019

Main Reference:

[1] Julie Meloni, Jennifer Kyrnin , Sams Teach Yourself HTML, CSS, and JavaScript All in One: Covering HTML5, CSS3, and ES6 ,Third Edition,2019

Other References:

[2] Jon Duckett, HTML & CSS design and build websites
[3] Jon Duckett, JavaScript & JQuery interactive front-end web development.
1. https://getbootstrap.com/
2. Deitel and Deitel, "Internet & World Wide Web How to program", 5th Edition. Pearson, 2012.
3. Programming in HTML5 with JavaScript and CSS3 , Glenn Johnson.2013
4. https://www.w3schools.com/

Additional information:

No side talks during lecture
No mobile phones during lecture
Entering the lecture theatre after the instructor is not permitted.
Homework should be done by students independently or by team work and will be asked at the exams

Course Material and Announcements:

Students need to use the e-learning page at the ASU website in order to get all lecture handouts and guidelines which will be uploaded there.
In addition, course related announcements and exam results will be posted on the e-learning page and is the responsibility of each student to check the site regularly.

Course Coordinator:	I.Balqees Aldabaybah	Signature:		Date:	Oct. 16, 2021
Head of curriculum committee:	Dr. Fadi Almasalha	Signature:		Date:	Oct. 16, 2021
Head of Department:	Dr Yousef Elsheik	Signature:		Date:	Oct. 16, 2021
Dean:	Dr Mohammad Hijjawi	Signature:		Date:	Oct. 16, 2021

Copy to:

- Head of Department
- Head of curriculum committee
- Course File

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