

QF01/0408-4.0E	Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Cyber Security Department		
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Study plan No.	2024/2025		University Specialization		Cybersecurity	
Course No.	0133232		Course name		Web Application Programming (1)	
Credit Hours	3		Prerequisite Co-requisite		Computer Programming	
Course type	<input type="checkbox"/> Mandatory university requirement	<input type="checkbox"/> University elective requirements	<input type="checkbox"/> Faculty mandatory requirement	<input type="checkbox"/> Support course family requirements	<input checked="" type="checkbox"/> Mandatory requirements	<input type="checkbox"/> Elective requirements
Teaching style	<input type="checkbox"/> Full online learning		<input type="checkbox"/> Blended learning		<input type="checkbox"/> ✓Traditional learning	
Teaching model	<input type="checkbox"/> 2Synchronous: 1asynchronous		<input type="checkbox"/> 2 face to face : 1synchronous		<input type="checkbox"/> ✓2 Traditional	

Faculty member and study divisions information (to be filled in each semester by the subject instructor)

Name	Academic rank	Office No.	Phone No.	E-mail
Eman Abu Maria	Instructor	231	-	Eman.marria@zuj.edu.jo
Division number	Time	Place	Number of students	Teaching style

Brief description

This course provides the students with important components of HTML5, teaching students how to add images, hyperlinks, lists, video, audio and forms to web pages. Further, this course provides an overview of CSS3 and JavaScript, which facilitate disciplined approach to designing computer programs that enhance the functionality and appearance of Web pages.

Learning resources

Course book information (Title, author, date of issue, publisher ... etc)	Responsive Web Design with HTML5 and CSS: Build future-proof responsive websites using the latest HTML5 and CSS techniques 5 th ed. Edition (2025)			
Supportive learning resources (Books, databases, periodicals, software, applications, others)	<ol style="list-style-type: none"> 1. Web Development: HTML, CSS and JavaScript for Beginners (Marcel Pacheco2024) 2. Mastering Web Development: A Journey through HTML, CSS, and JavaScript (Martin Hander2023) 3. Responsive Web Design with HTML5 and CSS by Ben Frain (2022). 4. JavaScript for Impatient Programmers by Axel Rausch Mayer (2022). 			
Supporting websites	https://www.w3schools.com/			
The physical environment for teaching	<input type="checkbox"/> Class room	<input checked="" type="checkbox"/> Labs	<input type="checkbox"/> Virtual educational platform	<input type="checkbox"/> Others
Necessary equipment and software	Visual Studio Code App. https://code.visualstudio.com/			
Supporting people with				

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special needs	
For technical support	E-learning and Open Educational Center. Computer Center

Course learning outcomes (S= Skills, C= Competences K= Knowledge,)

No.	Course learning outcomes	The associated program learning output code
Knowledge		
K1	Understanding the evolution of the Internet and the World Wide Web.	MK1
K2	Understanding important components of HTML5 documents.	MK2
K3	Understanding a website's appearance with style sheets.	MK3
K4	Understanding and applying JavaScript programs.	MK4
Skills		
S1	Knowledge of the structure and model of the Web Pages.	S1
S2	Knowledge the interactive Front-End Web Development.	S2
S3	Develop Web and Design using HTML5, CSS and JavaScript.	S3
Competences		
C1	The ability to using the important components of HTML5 documents.	C1
C2	Applying a style sheet to give all the pages of a website the same look and feel.	C2
C3	Using JavaScript statements.	C3

Mechanisms for direct evaluation of learning outcomes

Type of assessment / learning style	Fully electronic learning	Blended learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
First exam	0	0	0	0
Second / midterm exam	%30	%30	%30	%30
Participation / practical applications	0	0	0	0
Asynchronous interactive activities	%30	%30	%30	%30
final exam	%40	%40	%40	%40

Note: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

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Schedule of simultaneous / face-to-face encounters and their topics

Week	Subject	learning style*	Reference **
1	<ul style="list-style-type: none"> Lecture (1): HTML Introduction <ul style="list-style-type: none"> Editing HTML5 First HTML5 Example HTML Headings HTML Line Breaks HTML Horizontal Rules Tag HTML Paragraphs Lecture (2): <ul style="list-style-type: none"> HTML Text Formatting HTML Images HTML Links 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
2	<ul style="list-style-type: none"> Lecture (3): HTML Lists <ul style="list-style-type: none"> Unordered HTML Lists (UL) Ordered HTML Lists (OL) HTML Description Lists (DL) Lecture (4): <ul style="list-style-type: none"> HTML Tables Part (1) 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
3	<ul style="list-style-type: none"> Lecture (5): HTML Tables Part (2) Lecture (6): Forms 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
4	<ul style="list-style-type: none"> Lecture (7): (Tables and Forms) Exercises Lecture (8): Introduction to Cascading Style Sheets (CSS): <ul style="list-style-type: none"> Introduction External CSS Inline Styles Embedded (Internal) Style Sheets 		HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
5	<ul style="list-style-type: none"> Lecture (9): CSS backgrounds and colors Lecture (10): CSS fonts and text properties 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
6	Midterm Exam 30%		
7	<ul style="list-style-type: none"> Lecture (11): Class and ID Notations Lecture (12): CSS Box Model <ul style="list-style-type: none"> CSS Border CSS Margin CSS Padding 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.

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8	<ul style="list-style-type: none"> Lecture (13): Class and ID Notations Lecture (14): HTML-Div tag 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
9	<ul style="list-style-type: none"> Lecture (15): DIV (Exercises) Lecture (16): CSS DIV-Layout-Display-Position-Float-Clear Properties 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
10	<ul style="list-style-type: none"> Lecture (17): Introduction to Scripting JavaScript Lecture (18): JavaScript (Output, Variable, Arithmetic Operators) 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
11	<ul style="list-style-type: none"> Lecture (15): Functions Lecture (16): Control Structures (Selections and Loops) 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
12	<ul style="list-style-type: none"> Lecture (17): JavaScript HTML DOM - Changing CSS Lecture (18): Events Examples 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
13	<ul style="list-style-type: none"> Lecture (19): JavaScript (Exercises) 	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
14	Revision	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
15	Discussing projects	Traditional Learning (Practical Learning)	HTML, CSS & JavaScript in easy steps 1 st Edition by Mike McGrath 2020.
16	Final Exam 40%		

* Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

** Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.

Schedule of asynchronous interactive activities (in the case of e-learning and blended learning)

Week	Task / activity	Reference	Expected results
4	<ul style="list-style-type: none"> Tables and Forms (Exercises) 		
5	<ul style="list-style-type: none"> Project idea submission: include the project title, a brief description, and the names of the team members. 		
9	<ul style="list-style-type: none"> DIV (Exercises) 		
13	<ul style="list-style-type: none"> JavaScript (Exercises) 		
14	<ul style="list-style-type: none"> Project submission 		
15	<ul style="list-style-type: none"> Project discussion 		