جامعة الزيتونة الأردنية

Al-Zaytoonah University of Jordan

Course Syllabus

According to JORDAN National Qualification Framework (JNQF)

Course Name: Internet Applications Programming 1

Course Number: 0130233

General Course Information:

Course Title	Internet Applications Programming 1
Course Number	0130233
Credit Hours	3 credit hours
Education Type	Traditional learning
Prerequisites/Co-requisites	Computer Programming (0130130)
Academic Program	Computer Science
Program Code	130
Faculty	Faculty of Information Technology
Department	Computer Science
Level of Course	2
Academic Year /Semester	2024/2025 1st Semester
Awarded Qualification	BS'c
Other Department(s) Involved in Teaching the Course	-
Language of Instruction	English
Date of Production	2024-2025
Date of Revision	

Course Coordinator:

Coordinator's Name	Basem Alokush
Office No.	9119
Office Phone Extension Number	360
Office Hours	11-12:30 Sunday-Wednesday
E-mail	Basem.alakush@zuj.edu.jo

Other Instructors:

Instructor Name	
Office No.	
Office Phone Extension Number	
Office Hours	
Email	

Course Description *(English/Arabic)*:

English	**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.**
Arabic	الوصف المختصر:

	يغطي هذا المساق أهم مفاهيم الخاصة بـ ((HTML5، حيث يكتسب الطالب المهارات والتقنيات اللازمة لإضافة الصور والارتباطات التشعبية والقوائم والفيديو والصوت والنماذج إلى صفحات الويب. علاوة على ذلك، يوفر هذا المساق نظرة عامة على ((CSS3و ((JavaScript، التي تعمل على تحسين وظائف صفحات الويب ومظهرها.

Textbook: ***Author(s), Title, Publisher, Edition, Year, Book website.***

HTML, CSS & JavaScript All-in-One: Mastering Front-End Development 2025

References: ***Author(s), Title, Publisher, Edition, Year, Book website.***

1. HTML and CSS: Design and Build Websites by Jon Duckett (2021).
2. Responsive Web Design with HTML5 and CSS by Ben Frain (2022).
3. JavaScript for Impatient Programmers by Axel Rausch Mayer (2022).

Course Educational Objectives (CEOs):

CEO1	**Provide students with a thorough understanding of HTML as the foundational markup language for structuring web content.**
CEO2	Train students to use semantic HTML elements to create accessible, well-structured, and logically organized web pages.
CEO3	Prepare students to integrate HTML with CSS and JavaScript to build basic interactive and styled web pages.
CEO4	Guide students in applying HTML to build static websites and prototypes that meet user and client needs.

Intended Learning Outcomes (ILO's):

Intended learning outcomes (ILOs)		Relationship to CEOs	Contribution to PLOs	Bloom Taxonomy Levels*	JNQF Descriptors**
K	K-Knowledge and Understanding				
ILO1-k	Understanding the HTML elements to build meaningful web pages.	1	PLO2	Understanding	k, S
ILO2-k	Understand the structure and purpose of HTML within the context of internet applications.	1,2	PLO2 PLO4	Applying	K,S
	S- Intellectual skills				
ILO3-s	Design an interactive Front-End Web Development.	2,3	PLO2 PLO4 PLO5	Applying	S, C
ILO4-s	Develop Web and Design using HTML5, CSS and JavaScript.	3,4	PLO2 PLO4	Applying	S, C
	C- Subject specific skills				
ILO5-c	The ability to combine HTML with introductory CSS and JavaScript for simple styling and interactivity.	2,4	PLO2 PLO5	understanding Applying	K, S, C
	D-Transferable skills:				

ILO6-d						
*Bloom Taxonomy Levels:						
Level #	1	2	3	4	5	6
Level Name	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
** Descriptor (National Qualification Framework Descriptors): K: Knowledge, S: Skill, C: Competency.						

Program Learning Outcome (PLOs):

	(PLOs)	JNQF Descriptors**		
		K	S	C
1.	Knowledge of professional ethics, social responsibility, and the regulations governing them.	√		
2.	Understanding various programming techniques, the stages of software development, and the fundamental principles of security.	√		
3.	Skill in applying mathematical concepts to analyze and design algorithms and verify their correctness		√	
4.	Skill in using different programming languages and applying them to develop software and computer applications.		√	
5.	The ability to analyze, design, and develop effective and reliable computer programs that meet user requirements and adhere to professional ethics.			√
6.	The ability to keep up with continuous advancements in computer science, innovate, and work independently or as part of a team.			√
7.	The ability to work collaboratively, communicate effectively, and demonstrate teamwork spirit.			

**** Descriptors according to the national qualifications framework (K: knowledge, S: skill, C: Competency)**

Weekly Schedule *(please choose the type of teaching)*

- ☒ **Face to Face (F2F)**
- ☐ **Hybrid** *(One – To - One)*
- ☐ **Online**

Schedule of Simultaneous and their Topics:

Week	First Lecture (F2F)	Second Lecture (F2F)	ILOs	PLOs	JNQF Descriptors*
1	**HTML Introduction** – **Editing HTML5** – **First HTML5 Example** – **HTML Headings** – **HTML Line Breaks** – **HTML Horizontal Rules Tag** – **HTML Paragraphs**	**HTML Introduction** – **HTML Text Formatting** – **HTML Images** – **HTML Links**	**ILO1-K** **ILO2-K**	**PLO2**	K
2	**HTML Lists** – **Unordered HTML Lists (UL)** – **Ordered HTML Lists (OL)** – **HTML Description Lists (DL)**	**HTML Tables Part (1)**	**ILO2-K** **ILO3-S** **ILO4-S**	**PLO2** **PLO4**	K,S
3	**HTML Tables Part (2)**	**Forms**	**ILO3-S**	**PLO5**	S

			ILO4-S	**PLO11**	
4	**Tables and Forms** (Exercises)	**Introduction to Cascading Style Sheets (CSS):** – **Introduction** – **External CSS** – **Inline Styles** – **Embedded (Internal) Style Sheets**	**ILO3-S** **ILO4-S**	**PLO2** **PLO4**	S
5	**CSS backgrounds and colors**	**CSS fonts and text properties**	**ILO3-S** **ILO5-C**	**PLO2** **PLO4**	S,C
6	**Class and ID Notations**	**CSS Box Model** – **CSS Border** – **CSS Margin** – **CSS Padding**	**ILO3-S** **ILO4-S** **ILO5-C**	**PLO4** **PLO5**	S,C
7	**Class and ID Notations (continue)**	**HTML-Div tag**	**ILO3-S** **ILO4-S** **ILO5-C**	**PLO2** **PLO4** **PLO5**	S,C
Midterm Exam (30%)					
9	**DIV (Exercises)**	**CSS DIV-Layout-Display-Position-Float-Clear Properties**	**ILO3-S** **ILO4-S** **ILO5-C**	**PLO2** **PLO4** **PLO5**	S,C
10	**Introduction to Scripting**	**JavaScript (Output, Variable, Arithmetic Operators)**	**ILO4-S** **ILO5-C**	**PLO2** **PLO4**	S,C
11	**Functions**	**Control Structures (Selections and Loops)**	**ILO4-S** **ILO5-C**	**PLO2** **PLO4**	S,C
12	**JavaScript HTML DOM - Changing CSS**	**Events Examples**	**ILO4-S** **ILO5-C**	**PLO2** **PLO4**	S,C
13	**JavaScript (Exercises)**	**JavaScript (Exercises)**	**ILO4-S** **ILO5-C**	**PLO2** **PLO4**	S,C
14	**Revision**	**Revision**	**ILO4-S** **ILO5-C**	**PLO4** **PLO5**	S,C
15	**Projects Discussion**				
16	**Final Exam**				

* **K: Knowledge, S: Skills, C: Competency**

Teaching Methods and Assignments:

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

- Lecture.
- learning through projects.
- learning through problem solving.
- participatory learning

Course Policies:

A- Attendance policies:
The maximum allowed absences is 15% of the lectures.
B- Absences from exams and handing in assignments on time:
Midterm exam can be retaken based on approval of excuse by the instructor's discretion.
Not handing assignment on time will incur penalties.
C- Academic Health and safety procedures
D- Honesty policy regarding cheating, plagiarism, and misbehaviour:
Cheating, plagiarism, misbehaviour will result in zero grade and further disciplinary actions may be taken.
E- Grading policy:

- All homework is to be posted online through the e-learning system.
- Exams will be marked within 72 hours and the marked exam papers will be handed to the students.
- Online Activities (Course Videos, Practice labs, Discussion Forums, Quizzes) **20%**
- Midterm 30**%**
- Final Exam 50**%**

F- Available university services that support achievement in the course: **E-Learning Platform, Labs, Library.**

Required Equipment:

- PC / Laptop with webcam and mic
- Internet Connection
- Access to the ZUJ E-Learning Platform at https://exams.zuj.edu.jo/
- E-learning plan
- Satisfaction questionnaires for online and face-to-face learning
- Software for e-learning
- Training

Assessment Tools Implemented in the Course:

- Final Exam
- Midterm Exam
- Quizzes
- Homework
- Practice Labs
- Discussion Forums
- Periodic reports for learning assessment
- Improvement plans for online or face-to-face teaching.
- Others…

Responsible Persons and their Signatures:

Course Coordinator		**Completed Date**	/ /
		Signature	
Received by (Department Head)		**Received Date**	/ /
		Signature	