
جامعة الزيتونة الأردنية
Al-Zaytoonah University of Jordan



Course Syllabus

***According to JORDAN National Qualification
Framework (JNQF)***

**Course Name: Internet Applications
Programming 2**

Course Number: 0130234

General Course Information:

Course Title	Internet Applications Programming 2
Course Number	0130234
Credit Hours	3 credit hours
Education Type	Traditional learning
Prerequisites/Co-requisites	Internet Applications Programming 1 (0130233)
Academic Program	Computer Science
Program Code	130
Faculty	Faculty of Information Technology
Department	Computer Science
Level of Course	3
Academic Year /Semester	2024/2025 1 st 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
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Office Hours	11-12:30 Sunday-Wednesday
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Other Instructors:

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

Course Description (English/Arabic):

English	This course will cover the following topics in ASP.NET Core 6.0: The introduction of ASP.NET Core 6.0 with MVC , Model , View and Controller (MVC) pattern design, HTML helper and HTML tags, working with controller , working with View and razor code , transferring data between Controllers and Views , Model Binding , Validation in both client and server side , SQL server database , CRUD in ASP.NET Core MVC , Authentication and Authorization
Arabic	ستغطي هذه المادة بعض المفاهيم المتعلقة ب ASP.NET Core 6.0: مثل مقدمة ASP.NET Core 6.0 وتصميم نمط (MVC) ، HTML Helper and Tags ، والعمل مع Controller ، والعمل مع View and

razor code , transferring data between Controllers and Views , Model Binding , Validation in both client and server side , SQL server database , CRUD in ASP.NET Core MVC , Authentication and Authorization و كما يهدف هذا المساق الى تعرف على عناصر وأسس وتقنيات صناعة الألعاب الرقمية. وفهم القواعد، وسرد القصة وعناصر ألعاب الفيديو، مع كيفية تصميم الواجهات والتعرف على البرمجة بشكل بسيط، وأيضاً كيفية الترويج للمنتج النهائي من اللعب في الأسواق المحلية والعالمية

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

ASP.NET Core: A Pro-Level Guide to ASP.NET Core: Mastering High-Performance Web Solutions 2025

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

1. Mark J. Price. “C# 9 and .NET 5 – Modern Cross-Platform **Development: Build intelligent apps, websites, and services with Blazor, ASP.NET Core, and Entity Framework Core** using Visual Studio Code, 5th Edition”. Birmingham-Mumbai/PackT; (2022)
2. Adam Freeman. “Pro ASP.NET Core MVC 2 (7 Edition)”. Apress; (2021)

Course Educational Objectives (CEOs):

CEO1	Explain how to create dynamic Web pages by using ASP.NET Core MVC.
CEO2	Create a user interface on an ASP.NET Core MVC page by using standard the principles of Model-View-Controller
CEO3	Maintaining State management throughout the Application.
CEO4	Display dynamic data from a data source by using Entity Framework Core 6.0 and data binding.

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	Explain the architecture, components, and advantages of using ASP.NET Core.	1,2	PL01	Understanding K
S- Intellectual skills				
ILO2-s	Design and implement dynamic, data-driven web applications using ASP.NET Core MVC (Model-View-Controller) framework.	2,3	PL04	Analyzing, Applying S
ILO3-s	Integrate and manipulate databases in ASP.NET Core applications using Entity Framework Core for CRUD operations.	4	PL04 PL05 PL06	Applying S
C- Subject specific skills				
ILO4-c	Build secure web applications using ASP.NET Core's identity system to	3,4	PL04 PL05	understanding Applying C

ILO5-c	manage user authentication and role-based authorization.		PL06			
	Apply debugging, unit testing, and deployment techniques to ensure robust and reliable web applications.	3,4	PL04 PL05 PL06	Evaluating Applying	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	Chapter 1: An introduction to web programming with 4-30 ASP.NET Core programming	Chapter 1: An introduction to web programming with 4-30 ASP.NET Core programming – Continue	ILO1-K	PLO2	K
2	Chapter 2: How to develop a single-page MVC application	Chapter 2: How to develop a single-page MVC application – Continue	ILO1-K ILO2-S	PLO2 PLO4	K,S

3	Chapter 10: How to work with model binding	Chapter 10: How to work with model binding – Continue	ILO2-S ILO3-S	PLO4 PLO5	S
4	Chapter 10: How to work with model binding	Chapter 10: How to work with model binding- – Continue	ILO2-S ILO3-S	PLO4 PLO5	S
5	Chapter 12: How to use EF Core	Chapter 12: How to use EF Core - Continue	ILO2-S ILO3-S	PLO4 PLO5	S
6	Chapter 12: How to use EF Core	Chapter 12: How to use EF Core - Continue	ILO2-S ILO3-S	PLO4 PLO5	S
7	Chapter 11: How to use validate data	Chapter 11: How to use validate data - Continue	ILO3-S ILO4-C	PLO4 PLO5	S,C
Midterm Exam (30%)					
9	Chapter 8: How to transfer data from controllers	Chapter 8: How to transfer data from controllers – Continue	ILO3-S ILO4-C	PLO4	S,C
10	Chapter 9: How to work with session state and Cookies	Chapter 9: How to work with session state and Cookies – Continue	ILO3-S ILO4-C	PLO4	S,C
11	Chapter 7: How to work with Razor View	Chapter 7: How to work with Razor View – Continue	ILO3-S	PLO5	S
12	Chapter 7: How to work with Razor View	Chapter 7: How to work with Razor View – Continue	ILO3-S	PLO5	S
13	Chapter 16 How to authenticate and authorize users	Chapter 16 How to authenticate and authorize users - Continue	ILO3-S ILO4-C ILO5-C	PLO4 PLO5	S,C
14	Chapter 16 How to authenticate and authorize users	Chapter 16 How to authenticate and authorize users - Continue	ILO3-S ILO4-C 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	