1	**Course title**	Web Server programming
2	**Course number**	1904253
3	**Credit hours**	3
	Contact hours (theory, practical)	3 mixed
4	**Prerequisites/corequisites**	Fundamentals of Information Technology (1904101), Web Application Development-1 (1904121)
5	**Program title**	Business Information Technology
6	**Program code**	4
7	**Awarding institution**	University of Jordan
8	**School**	King Abdullah II School for IT
9	**Department**	Information Technology
10	**Level of course**	Undergraduate
11	**Year of study and semester (s)**	2022-2023 (Autumn, Spring, Summer)
12	**Final Qualification**	Bachelor of Science in Information Technology
13	**Other department (s) involved in teaching the course**	None
14	**Language of Instruction**	English
15	**Teaching methodology**	☒Blended ☐Online
16	**Electronic platform(s)**	☒Moodle ☐Microsoft Teams ☐Skype ☐Zoom ☐Others…………
17	**Date of production/revision**	10/10/2022

18 Course Coordinator:

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19 Other instructors:

Name:
Office number:
Phone number:
Email:

Name:
Office number:
Phone number:
Email:

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٢٠ Course Description:

The explosion of Internet technologies is revolutionizing the way that people do business, communicate and live. Millions of Internet users access unprecedented resources, send and receive messages, perform research and purchase products worldwide. Buying and selling of products or services over the Internet, known as e-commerce, is rapidly gaining significant portion of the global economy and playing a pivotal role in shaping and enhancing its growth. Therefore, information technology students need to understand how the Internet works and be able to design, implement and configure its services and applications effectively to meet customer requirements.

The emphasis of this course is two-fold:

- Client-side programming using XHTML,CCS, JavaScript, and XML.
- Server-side programming using ASP.NET and ADO.NET.

٢١ Course aims and outcomes:

1– Aims:

This course is intended to teach students the skills and techniques required to create fully functioning websites. Students will learn how to configure Internet services, design and publish dynamic and interactive web pages, implement both client and server–side scripting, and use data access technologies to manipulate databases.

2- Intended Learning Outcomes (ILOs):
(Mapped directly to SO's ➜ ILO≡OS)

On successfully completing the module, the students are expected to have gained good knowledge of:

A-Knowledge and understanding: students should
A1) Understand infrastructure of the internet, and the World Wide Web and the differences between client-side and server-side technologies . (SO2)
A2) Understand how to manage state in an ASP.NET application. . (SO2)
A3) Understanding the Different uses of server controls . (SO2)
A4) Identify and handle ASP.NET errors. . (SO2)

B-Intellectual Skills: with ability to
B1) Build and debug well-formed Web Forms with ASP. NET Controls. (SO2)
B2) Use VB to manipulate the code behind the page (SO2)
B3) Create custom controls with user controls. (SO6)
B4) Perform form validation with validation controls. (SO6)
B5) Manage a database using the Visual Studio .NET database tools. (SO2)
B6) Create secure website with proper custom user and Server controls (SO2)
B7) Use ADO.NET in a web application to read, insert, and update data in a database. (SO6)

C-Subject Specific Skills: With ability to
C1) Work in a group in order to implement and design ASP.NET/VB website (SO٦)
C2) Using the available database tools in a ASP.NET applications (SO6)

٢٢. Topic Outline and Schedule:

Note: lectures days are (Mon/Wed) per week the third lecture

Week	Lecture	Topic	Teaching Methods*/ platform	Evaluation Methods**	References
1	Monday	Web basics and getting started with VWD2010 (Designing web pages and working with CSS)	Face-to-face	Practical (using VWD environment)	Chapter1,2,3
	Wednesday	Web basics and getting started with VWD2010	Face-to-face	Practical (using VWD environment)	Chapter1,2,3
2	Monday	Server controls-part1 (textbox/ label/ button /linkbutton/hyperlink/image)	Face-to-face	Practical (using VWD environment)	Chapter4
	Wednesday	Server controls-part2 (Checkbox /Checkboxlist /Radiobutton/Radiobutton list)	Face-to-face	Practical (using VWD environment)	Chapter 4
3	Monday	Server controls-part3 (Dropdownlist/Listbox)	Face-to-face	Practical (using VWD environment)	Chapter 4
	Wednesday	Server controls-part4 (Panel/Wizard)	Video via Moodle	Practical (using VWD environment)	Chapter 4
4	Monday	Navigation controls (Menu)	Face-to-face	Practical (using VWD environment)	Chapter 4
	Wednesday	Navigation controls (sitemap)	Video via Moodle	Practical (using VWD environment)	Chapter 4
5	Monday	Masterpage	Face-to-face	Practical (using VWD environment)	Chapter7
	Wednesday	VB programming	Video via Moodle	Practical (using VWD environment)	Chapter5
6	Review and Mid Exam				
7	Monday	Validation controls-part1 (Range/Required/Compare validators) and validation summary	Face-to-face	Practical (using VWD environment)	Chapter8

	Day	Topic	Delivery	Assessment	Reference
	Wednesday	Validation controls-part1 (Range/Required/Compare validators) and validation summary	Video via Moodle	Practical (using VWD environment)	Chapter8
8	Monday	Validation controls-part2 (Custom validator)	Face-to-face	Practical (using VWD environment)	Chapter8
	Wednesday	Extra examples on (Custom validator)	Video via Moodle	Practical (using VWD environment)	Chapter9
9	Monday	Complete example on validation controls	Face-to-face	Practical (using VWD environment)	Chapter9
	Wednesday	Task on Custom validator	Video via Moodle	Practical (using VWD environment)	Chapter9
10	Monday	User Control-part1	Face-to-face	Practical (using VWD environment)	
	Wednesday	User Control-part2	Video via Moodle	Practical (using VWD environment)	
11	Practical Exam1				
12	Monday	Introduction to database (Sql server database)	Face-to-face	Practical (using VWD environment)	Chapter12
	Wednesday	Complete Example on how to create db /manipulating data with Sql server database	Video via Moodle	Practical (using VWD environment)	Chapter12
13	Monday	Introduction to data and data-bound controls (Detailsview/Gridview/sql datasource)	Face-to-face	Practical (using VWD environment)	Chapter13
	Wednesday	Retrieving and manipulating data with data and data-bound controls-part1	Video via Moodle	Practical (using VWD environment)	Chapter13
14	Monday	Retrieving and manipulating data with data and data-bound controls -part2	Face-to-face	Practical (using VWD environment)	Chapter13
	Wednesday	Retrieving and manipulating data with data and data-bound controls -part3	Video via Moodle	Practical (using VWD environment)	Chapter13

١٥	Monday	Advance examples on retrieving and manipulating data with data and data-bound controls	Face-to-face	Practical (using VWD environment)	Chapter13
	Wednesday	retrieving and manipulating data with data and data-bound controls	worksheet via Moodle	Practical (using VWD environment)	Chapter 6,16
١٦	Monday	Cookies and Session tracking with database	Face-to-face	Practical (using VWD environment)	Chapter 6,16
	Wednesday	Login controls	Video via Moodle	Practical (using VWD environment)	Chapter 6,16

- Teaching methods include: Synchronous lecturing/meeting; Asynchronous lecturing/meeting
- Evaluation methods include: Homework, Quiz, Exam, pre-lab quiz…etc

٢٣ Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	Period (Week)	Platform
Mid	30%	All topics covered in the first ٥ weeks	60 minutes	Paper based
practical	20%	All topics covered from the sixth week to the eighth week	60 minutes	labs
Task1-Task5	10%	Was clarified in section (22) previously	4days for each	Moodle
Final	40%	All covered topics	According to rules	Paper based

٢٤ Course Requirements (e.g: students should have a computer, internet connection, webcam, account on a specific software/platform…etc):

students should have
1. A computer with Microsoft visual Web Developer and Microsoft SQL server softwares.
2. Internet connection.
3. Account on Microsoft Teams + Moodle.
4. Webcam (sometimes).

٢٥ Course Policies:

A- Attendance policies:

Student is deprived from attending the final exam of the course if s/he is absent for 15% of class time (5 absence for lecture duration 1 hour 20 minutes, and 7 absence for lecture duration 50 minutes) and will be given a fail (F) grade. If the absence is for a valid reason that is deemed acceptable by the registrar, the student is considered withdrawn (WD) from the subject.

B- Absences from exams and submitting assignments on time:

- Submitting the HomeWorks and assignments will be through the Moodle platform, the time duration for each home work /assignment will be determined clearly. Late submissions are not allowed, any student exceed this time duration without submitted his/her homework will take the zero as mark.
- Absence of any exam is not acceptable, except with an official excuse.

C- Health and safety procedures:

All students should comply with the university Health and Safety procedures.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

All students should comply with the university honesty policy regarding cheating, plagiarism, misbehavior.

E- Grading policy:

There will be one final exam comprising 50% of the total course grade, and 2 quizzes (15% of final grade for each; totally 30%). The remaining 20% is accounted for a HomeWorks and assignments.

F- Available university services that support achievement in the course:
http://elearning.ju.edu.jo

٢٦ **References:**

A- Required book(s), assigned reading and audio-visuals:

- Beginning ASP.NET 4: in C# and VB, 1st edition by Imaar Spaanjaars, Worx, 2010 (ISBN: 0470502215)

B- Recommended books, materials and media:

- Internet & World Wide Web- How to Program, 4th edition, by H. M. Deitel, P. J. Deitel and A.B. Goldberg, Prentice Hall, 2008 (ISBN: 0131752421)
- Web development and design foundations with XHTML, 5th edition by Terry Felke-Morris, Addison Wesley, 2010 (ISBN: 0132122707)
- Lectures notes and videos.

٢٧ **Additional information:**

Office hour: Every Monday at 1-2 pm

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Name of Course Coordinator: Mariam Itriq   Signature: ------------------ Date: 10/10/2022

Head of Curriculum Committee/Department: --------------------------- Signature: ------------------------

Head of Department: --- Signature: ----------------------

Head of Curriculum Committee/Faculty: -------------------------------------- Signature: ------------------
Dean: --- Signature: ---

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