

Course E-Syllabus

1	Course title	Electronic Business
2	Course number	1904354
3	Credit hours	3
	Contact hours (theory, practical)	3 mixed
4	Prerequisites/corequisites	Web Application Development-2 (1904353)
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 (<u>Autumn</u> , 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	<input type="checkbox"/> Blended <input checked="" type="checkbox"/> Online
16	Electronic platform(s)	<input checked="" type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....
17	Date of production/revision	15/9/2022

18 Course Coordinator:

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19 Other instructors:

Name:
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Name:
 Office number:
 Phone number:
 Email:

20 Course Description:

This course guides the students to understand E-Business models and to create e-business website using PHP and MySQL; designing the visual interface, creating the database, presenting content, generating an online catalog, managing the shopping cart, handling the order and the payment process, and fulfilling the order always with security and best practices emphasized along the way.

This course also, teaches the students how to: Create a safe server environment and database, Use secure transactions and prevent common vulnerabilities, Incorporate different payment gateways, Design scalable sites that are easy to maintain, and Build administrative interface.

XAMPP, WAM, or TomCat and MYSQL DB are intended to be used throughout the course.

21 Course aims and outcomes:

A- Aims:

At the end of this course, students should ...

1. Understand the principles of e-Business including the ability to do some calculations, define various online business stages, models and their technological infrastructure including networking, hardware and software.
2. Analyze e-Business design/implantation issues and identify possible solutions.
3. Ability to design, implements, and evaluate e-Business applications.
4. Work effectively as a member of a group to utilize Multitier Architecture and server-side programming to implement e-Business applications.
5. Understand information security requirements to ensure trustworthy online transactions.

B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course students will be able to ...

A- Knowledge and understanding: Students should ...

A1: Be able to apply basic principles of e-Business including various online business stages, models and their technological infrastructure including networking, hardware and software. **SO 1**

A2: List applications of E-Business. **SO 2**

B- Intellectual and specific skills: with ability to ...

B1: Be able to formulate, design, and implement E-Business application (e.g. E-Commerce, E- Government, E-Learning and social media network) utilizing Multitier Architecture and server-side programming using developing tools such as XAMPP, WAM, or TomCat. **SO 3, 4**

B2: Be capable to effectively integrated web-based solutions. **SO 4**

C- Transferable skills – with ability to

C1: Work in a group in order to developed E-Business application. **SO 3, 5, 6**

C2: Present the final work (project) and make a demo. **SO 3, 5, 6**

22. Topic Outline and Schedule:

Week	Lecture	Topic	Teaching Methods*/platform	Evaluation Methods**	References
1, 2	1.1	Course Overview and Introduction to E-Business	Online via MS-Teams Video via Moodle	Class questions	Chapter-1 Text Book
	1.2	Classification of E-Business	Online via MS-Teams Video via Moodle	Class questions	Chapter-1 Text Book
	1.3	Brief History of EB and Social Computing	Video via Moodle	Class questions	Chapter-1 Text Book
	2.1	Virtual World and Second Life	Video via Moodle	Class questions	Notes Moodle
	2.2	E-Business Models	Online via MS-Teams Video via Moodle	Class questions	Notes Moodle
	2.3	E-Business Models	Online via MS-Teams Video via Moodle	Class questions	Notes Moodle
			Assignment 1	Moodle	Create Business Model
3, 4	3.1	Identifying Your Business Goals	Online via MS-Teams Video via Moodle	Class questions	Chapter-1 Text Book
	3.2	Choosing Web Technologies	Online via MS-Teams Video via Moodle	Class questions	Chapter-1 Text Book
	3.3	Selecting a Web Host	Online via MS-Teams Video via Moodle	Class questions	Chapter-1 Text Book
	4.1	Using a Payment System	Online via MS-Teams Video via Moodle	Class questions	Chapter-1 Text Book
	4.2	The Development Process	Online via MS-Teams Video via Moodle	Class questions	Chapter-1 Text Book
	4.3	The Development Process	Online via MS-Teams Video via Moodle	Class questions	Chapter-1 Text Book

5, 6	5.1	Server Security	Online via MS-Teams Video via Moodle	Class questions	Chapter-2 Text Book
	5.2	Secure Transactions	Online via MS-Teams Video via Moodle	Class questions	Chapter-2 Text Book
	5.3	Common Vulnerabilities	Online via MS-Teams Video via Moodle	Class questions	Chapter-2 Text Book
	6.1	Web Site: Structure and Design: Database Design	Online via MS-Teams Video via Moodle	Class questions	Chapter-3 Text Book
	6.2	Web Site: Structure and Design: The HTML Template	Online via MS-Teams Video via Moodle	Class questions	Chapter-3 Text Book
	6.3	Web Site: Structure and Design/Defining Helper Functions	Online via MS-Teams Video via Moodle	Class questions	Chapter-3 Text Book
7, 8	7.1,2,3	User Accounts/ Protecting Passwords/ Registration	Online via MS-Teams Video via Moodle	Class questions	Chapter-4 Text Book
	8.1,2,3	Logging In/ Logging Out/ Managing Passwords	Online via MS-Teams Video via Moodle	Class questions	Chapter-4 Text Book
	Mid-Exam				
9, 10	9.1	Managing Site Contents/ Creating an Administrator/	Online via MS-Teams Video via Moodle	Class questions	Chapter-5 Text Book

	9.2	Managing Site Contents: Adding Pages	Online via MS-Teams Video via Moodle	Class questions	Chapter-5 Text Book
	9.3	Managing Site Contents/ Displaying Page Content	Online via MS-Teams Video via Moodle	Class questions	Chapter-5 Text Book
	10.1	Using PayPal/ About PayPal/	Online via MS-Teams Video via Moodle	Class questions	Chapter-6 Text Book
	10.2,3	Using PayPal/ Testing PayPal/ Integrating PayPal	Online via MS-Teams Video via Moodle	Class questions	Chapter-6 Text Book
Assignment 2					
11, 12	11.1,2,3	Creating Catalog	Online via MS-Teams Video via Moodle	Class questions	Chapter-8 Text Book
	12.1,2,3	Building a Shopping Cart	Online via MS-Teams Video via Moodle	Class questions	Chapter-9 Text Book
Assignment 3					
13, 14	13.1,2,3	Checking out	Online via MS-Teams Video via Moodle	Class questions	Chapter-10 Text Book
	14.1,2,3	Site Administration	Online via MS-Teams Video via Moodle	Class questions	Chapter-11 Text Book
Assignment 4					
16	16.1	Sample EB project Demonstration	Online via MS-Teams	Class questions	Chapter-12 Text Book
	16.2	Assignment Presentation	Online via MS-Teams	Class questions	
	16.3	Assignment Presentation	Online via MS-Teams	Class questions	
Final Exam					

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

23 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
Assignments	20%	All topics covered in the first 7 weeks	60 minutes	Moodle
Mid-Exam	30%	All topics covered from the first week to the fourth week	1 hour if it's in JU otherwise 15 minutes	On JU
Final	50%	All covered topics	According to rules	On JU

24 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 IDE XAMPP or WAMP
2. Internet connection.
3. Account on Microsoft Teams + Moodle.
4. Webcam (sometimes).

25 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, Mid-Exam 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>

26 References:

- Effortless E-Commerce with PHP and MySQL 2nd Edition 2014, by Larry Ullman, 2nd Edition, New Riders, ISBN 13 : 978-0-321-94936-3.
- Electronic Commerce 9th Edition, Efraim Turban, David King, Jae Kyu Lee, Ting-Peng Liang, Deborah C. Turban, Springer, 2018, ISBN (13: 978-3319587141).
- Beginning PHP and MySQL E-Commerce From Novice to Professional Second Edition, 2008, ISBN-13978-1-59059-864-1.Apress, 2008 (ISBN: 928-1-59059-862-7)
- E-Business, Gary Schneider, 10th edition, 2013
- Lab Resources: The following list contains the main tools, applications and resources that will be used for the course project
- Joomla the Open Source Content Management Systems (CMSs) www.joomla.org
- E-Commerce builder platforms such as: Actinic.com | Zencart.com

27 Additional information:

Office hour: Every Monday at 8-9 pm (via Moodle and MS-Teams)

Name of Course Coordinator: Prof. Ayoub Alsarhan Signature: *Ayoub Alsarhan* Date:

15/09/2022 Head of Curriculum Committee/Department: ----- Signature: -----

Head of Department:.....Signature:

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

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