

The University of Jordan
Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Advanced Web Development
2	Course number	1904254
3	Credit hours	3
	Contact hours (theory, practical)	3 mixed
4	Prerequisites/corequisites	Web Application Development-1 (1904121)
5	Program title	Business Information Technology
6	Program code	4
7	Awarding institution	The University of Jordan
8	School	King Abdullah II School of Information Technology
9	Department	Information Technology
10	Level of course	Undergraduate
11	Year of study and semester (s)	2022-2023 Fall Semester
12	Final Qualification	BSc
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Teaching methodology	<input checked="" type="checkbox"/> Blended <input 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	21/01/2023

18 Course Coordinator:

Name: Dr. Bashar Al-Shboul Office number: 305 Phone number: 5355000 / ext 22640 Email: b.shboul@ju.edu.jo
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19 Other instructors:

None

20 Course Description:

This course introduces students to the PHP programming language, the MySQL commonly used to create dynamic websites, such as server-side scripting programming, database access for three-tier data-driven applications, and asynchronous communication between client and server for fast partial update of client windows. The course comprises the fundamentals of programming with PHP, relational database design and operations with MySQL, and web solutions using PHP and MySQL. It also includes the basics of using content management systems for managing website content.
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21 Course aims and outcomes:

A- Aims:

The aim of this course is to enhance students understanding of the PHP scripting language to the high end, and provides the student with the necessary tools to write scripts that are secure, efficient and reliable.

B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course, students will be able to:

A. Knowledge and understanding: students should

- A1: Learn the basic structure and syntax of the PHP scripting language **SO 1**
- A2: Understand PHP development environment/platform. **SO 1**
- A3: Interface with a remote server. **SO 1**
- A4: Integrate XHTML, CSS, and PHP to build interactive Web sites **SO 4**
- A5: Handle user input via form processing and URL tokens
- A6: Perform other Web-based activities (send e-mail, authenticate users, handle cookies and sessions, and implement object-oriented programming) **SO 2**
- A7: Use embedded SQL to interact with a database to provide N-tier Web-based applications
- A8: Understand how to program PHP server applications. **SO 1**
- A9: Understand PHP theoretical part and applications and how to administer MySQL. **SO 1**

B. Intellectual Skills: with ability to

- B1:** Discuss the advantages of PHP and Wamp/Xampp/Tocat tools.
- B2:** Configure Wamp/Xampp/Tocat environment, design WEB database applications.

C- Subject specific skills – with the ability to ...

- C1: Implement practical PHP cases using Wamp/Xampp/Tocat platform. **SO 6**
- C2: Apply this knowledge in real world cases. **SO 6**

D- Transferable skills – with ability to

- D1: Work in a group in order to implement a database web-based project. **SO 3, 5**
- D2: Present the final work (project) and make a demo. **SO 3, 5**

22. Topic Outline and Schedule:

Week	Lecture	Topic	Teaching Methods	Evaluation Methods	References
1, 2	1.1, 2, 3	Introduction to PHP: Basic Syntax Defining variable and constant Php Data type Operator and Expression Arrays	Online via MS-Teams Video via Moodle	Class questions	Chapter-1, 6 Text Book
	2.1, 2, 3	Decisions and loop Function	Video via Moodle	Class questions	Chapter-2 Text Book
3, 4	3.1, 2, 3	Manipulating Strings	Online via MS-Teams Video via Moodle	Class questions	Chapter-3 Text Book
	4.1, 2, 3	String matching with regular expression	Online via MS-Teams Video via Moodle	Class questions	Chapter-3 Text Book
5, 6	5.1, 2, 3	String matching with regular expression	Online via MS-Teams Video via Moodle	Class questions	Chapter-3 Text Book
	6. 1, 2, 3	Handling Html Form With PHP	Online via MS-Teams Video via Moodle	Class questions	Chapter-4 Text Book
7, 8	7.1,2,3	Working with file and Directories	Online via MS-Teams Video via Moodle	Class questions	Chapter-5 Text Book
	8.1,2,3	Manipulating MySql Databases with PHP	Online via MS-Teams Video via Moodle	Class questions	Chapter-7 Text Book

Week	Lecture	Topic	Teaching Methods	Evaluation Methods	References
Mid-Exam					
9, 10	9.1	Working with Databases and MySQL	Online via MS-Teams Video via Moodle	Class questions	Chapter-8 Text Book
	10.2,3	State management	Online via MS-Teams Video via Moodle	Class questions	Chapter-9 Text Book
	Assignment-2				
11, 12	11.1,2,3	State management	Online via MS-Teams Video via Moodle	Class questions	Chapter-9 Text Book
	12.1,2,3	Utilizing Web Services	Online via MS-Teams Video via Moodle	Class questions	Notes
	Practical Exam				
13, 14	13.1,2,3	Creating Web Services	Online via MS-Teams Video via Moodle	Class questions	Notes
	14.1,2,3	PHP: JavaScript / AJAX	Online via MS-Teams Video via Moodle	Class questions	Notes
15	15. 1,2,3	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
Practical	20%	All topics covered in the first 12 weeks	60 minutes	On JU
Mid-Exam	30%	All topics covered from the 1 st week to the 7 th 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.

25 Course Policies:

A- Attendance policies:

Student is declined 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, and misbehavior.

E- Grading policy:

There will be one final exam comprising 40% of the total course grade, Mid-Exam 30%. The remaining 30% is accounted for a HomeWorks and assignments.

F- Available university services that support achievement in the course:

<http://elearning.ju.edu.jo>

26 References:

- PHP PROGRAMMING WITH MYSQL, Second Edition, ISBN-13: 978-0-5387-4584-0 ISBN-10: 0-5387-4584-3
- Modern PHP: New Features and Good Practices 1st Edition ISBN-10: 1491905018 ISBN-13: 978-1491905012
- Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5 (Learning PHP, MySQL, JavaScript, CSS & HTML5) 4th Edition ISBN-10: 1491918667 ISBN-13: 978-1491918661

27 Additional information:

Date: 21/01/2023

Name of Course Coordinator: **Dr. Bashar Al-Shboul**

Signature: BS

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

Signature: -----

Head of Department: -----

Signature: -----

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

Signature: -----

Dean: -----

Signature: -----