



**Jordan University of Science and Technology**  
**Faculty of Computer & Information Technology**  
**Computer Science Department**

CS477 Web Technologies - JNQF Level: 7

First Semester 2023-2024

**Course Catalog**

3 Credit Hours. The Comprehensive Web Technology Course offers an extensive exploration of essential technologies and techniques essential for modern web development and common net-centric computing applications. Students will gain a deep understanding of HTML, CSS, JavaScript, PHP, MySQL, jQuery, DOM manipulation, AJAX, client-server concepts, multimedia servers, file systems, and other crucial aspects. This course equips students with the skills needed to create interactive, dynamic, and full-stack web applications while covering the broader landscape of net-centric computing applications.

**Text Book**

<b>Title</b>	Internet & World Wild Web: How to Program,
<b>Author(s)</b>	Deitel, Deital and Nieto
<b>Edition</b>	5th Edition
<b>Short Name</b>	Textbook
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref #1	Web Technologies, Black Book	Inc. Kogent Learning Solutions	1st Edition	
Ref #2	Learning PHP, MySQL & JavaScript WITH JQUERY, CSS & HTML5	Robin Nixon	4th Edition	
PHP Official Documentation	PHP Official Documentation	Website	1st Edition	<a href="https://www.php.net/manual/en/">https://www.php.net/manual/en/</a>
REF#3	Fundamentals of Web Development	Connolly, Hoar	3rd Edition	<a href="https://simplitaught.com/book-details/fundamentals-of-web-development-3rd-randy-ricardo">https://simplitaught.com/book-details/fundamentals-of-web-development-3rd-randy-ricardo</a>

Instructor	
Name	Mr. Mustafa Radaideh
Office Location	A2 L3
Office Hours	
Email	myradaideh@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun, Tue : 11:30 - 12:30 Room: PH2101

Prerequisites		
Line Number	Course Name	Prerequisite Type
1733180	CS318 Human-Computer Interaction	Prerequisite / Study
1742010	Cls201 Introduction To Web Design	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Web Styling: HTML and CSS Foundations	CH02, CH04 From Textbook
Weeks 3, 4, 5, 6, 7	Web Scripting: JavaScript Fundamentals	CH06, CH07, CH08, CH09, CH10, CH11 From Textbook
Week 8	Web Architecture :Client-Server Architecture	CH17 From Textbook
Weeks 8, 9, 10, 11, 12, 13	Dynamic Web Applications: PHP and Server-Side Development and Database interactions (MySQLi or PDO)	CH23 From Textbook, From PHP Official Documentation, CH09 From REF#3
Weeks 14, 15	Advanced Front-End Techniques :Advanced JavaScript	CH12, CH13, CH14, CH15, CH16 From Textbook
Week 16	Comprehensive Course Review and Revision Week	CH4-CH17 From Textbook

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method

Demonstrate a strong proficiency in full-stack web development, encompassing the creation of web applications from the client-side (HTML, CSS, JavaScript) to the server-side (PHP, MySQL). They will be capable of designing, building, and deploying dynamic web applications that involve database interactions, server scripting, and effective client-server communication. [1SO1, 1SO6] [15L7S1, 15L7C1]	40%	
possess a solid understanding of database integration with web applications, server-side scripting with PHP, and the principles of client-server architecture. They will be able to design and implement secure, scalable, and efficient web solutions that involve data storage, retrieval, and processing on the server while ensuring data integrity and security. [1SO2, 1SO6] [1L7C1]	30%	
Students will be proficient in advanced front-end techniques using JavaScript, jQuery, DOM manipulation, AJAX, and client-server communication principles. They will have the ability to develop interactive, responsive, and user-friendly web applications that utilize real-time data exchange between the client and server, enhancing user engagement and experience. [1SO6] [30L7S1]	30%	

Relationship to Program Student Outcomes (Out of 100%)					
SO1	SO2	SO3	SO4	SO5	SO6
20	15				65

Relationship to NQF Outcomes (Out of 100%)	
L7S1	L7C1
50	50

Evaluation	
Assessment Tool	Weight
First Exam	20%
Assignments	10%
Final Exam	40%
Quizzes	10%
Second Exam	20%

Policy
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Home works	<p>Home works are due at the beginning of class.</p> <p>Late homework will not be accepted.</p> <p>All work has to be done independently.</p> <p>Submit a hard copy and soft copy of your homework with your name, Section#, Sequence #, SID, and Homework # on it.</p> <p>E-mail submission is not allowed.</p> <p>All homework assignments are to be done individually.</p> <p>Students handing in similar work will both receive a 0 and face possible disciplinary actions</p>
Exams	<p>The format for the exams is generally (but NOT always) as follows: general definitions, Multiple-choice, design, short essay questions and writing codes.</p> <p>To make sure you pass the exams, you should do the assignments by yourself.</p> <p>Grades will not be given out via e-mail</p> <p>The exams might be online</p>
Makeup Exams	<p>Makeup exam should not be given unless there is a valid excuse.</p> <p>Arrangements to take an exam at a time different than the one scheduled MUST be made prior to the scheduled exam time.</p>
Drop Date	<p>Last day to drop the course is before the twelve (12th) week of the current semester.</p>
Cheating	<p>Cheating or copying from neighbor on exam, quiz, or homework is an illegal and unethical activity. Standard JUST policy will be applied.</p> <p>All graded assignments must be your own work (your own words).</p> <p>Some of the assignments (programming or homework) may be graded orally.</p>
Attendance	<p>Excellent attendance is expected.</p> <p>JUST policy requires the faculty member to assign ZERO grade (35) if a student misses 20% of the classes that are not excused.</p> <p>Sign-in sheets will be circulated.</p> <p>If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.</p>
Workload	<p>Average work-load student should expect to spend is 8 hours/week</p>
Graded Exams	<p>Instructor should return exam papers graded to students not after the week after the exam date.</p>

Participation	<p>I appreciate people asking questions during my lectures - it lets me know which concepts you are having difficulty with. Any question student asks is an important question regardless how he/she or others feels about it. Ask any question you think of directly or not directly pertinent to the lecture, I would be happy to entertain them during or/and at the end of the class.</p> <p>Ask me to repeat explaining things as many times as it takes to get it. When a student asks me to repeat the material just explained, the last thing I think off, if ever jumps to my mind, that the student is not smart enough to catch it. Most likely it is my mistake. It is either I was fast, slipped a point or I did not do it well. Whenever, a student asks me to repeat myself, I always learn new way to present the material.</p> <p>Sometimes I don't know the answer, but I'm happy to dig around and report back at the beginning of the next class.</p> <p>Ask and never think that you are wasting the class time or bothering me. I have the courage to tell you, in the best you that will not heart your feelings, to stop, delay, or to see me after the class.</p> <p>Making any kind of disruption and (side talks) in the class will affect you negatively.</p>
Lab	Internal lab should be registered separately on student schedule. Failure to do so the course will be withdrawn automatically.
Project	Projects in the lab have a high score and concentration.
Finally	<p>Make backups of all of your work.</p> <p>This includes any assignment and project materials you and your group produce.</p> <p>Copy files onto 2 or 3 different memories and photocopy diagrams and other materials to share with your group</p>
Plagiarism and Academic Integrity:	<p>Plagiarism, including copying code from online sources without proper attribution or using the work of others as your own, is strictly prohibited.</p> <p>All work submitted must be original, and any references or external sources used must be appropriately cited</p>

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