



**COURSE DESCRIPTIONS**

<b>Faculty</b>	Science and Information Technology				
<b>Department</b>	Software Engineering	<b>NQF level</b>	6		
<b>Course Title</b>	Programming websites and web applications	<b>Code</b>	503332	<b>Prerequisite</b>	-----
<b>Credit Hours</b>	3	<b>Theory</b>	3	<b>Practical</b>	0
<b>Course Leader</b>	M. Mohammad Al-issa	<b>email</b>	<a href="mailto:mohammadal-issa@jadara.edu.jo">mohammadal-issa@jadara.edu.jo</a>		
<b>Lecturers</b>	M. Mohammad Al-issa	<b>emails</b>	<a href="mailto:mohammadal-issa@jadara.edu.jo">mohammadal-issa@jadara.edu.jo</a>		
<b>Lecture time</b>	10.00-11.30 Sun-Tus	<b>Classroom</b>	Distance learning		
<b>Semester</b>	Second	<b>Production</b>		<b>Updated</b>	2020-2021
<b>Awards</b>	Bachelor Degree	<b>Attendance</b>	Fulltime		

<b>Short Description</b>
The main objective of this course is to enhance students understanding of systems that are connected with a network with concentration on the role of both server and client in sending and receiving data. It covers a range of topics including: Client/Server Systems Architecture, System planning and Design, Middleware and Data Access Protocols, issues with Concurrent Access to shared data, Client/Server Technologies (Connection-Oriented, Connectionless, Interactive, etc), Workgroup Servers, Application Servers, Client-Side Programming, Server-Side Programming, Database Connectivity, CGI Programming, RPC, Security issues. The practical part of this course includes applying the concepts studied in this course using a programming tool such as PHP.
<b>Course Objectives</b>
Upon completion of this course, students should be able to: <ul style="list-style-type: none"> <li>• Students will put their programming skills to use in constructing a complete end-to-end information system solution. This will often be their first opportunity to construct a non-trivial system of software.</li> <li>• Students will be introduced to a number of topics that are covered in more detail in other courses. This introduction serves two purposes:                     <ul style="list-style-type: none"> <li>• It gives all students exposure to important technologies and components (e.g., networks, database systems and languages, clients, middleware development tools).</li> <li>• Students will be better prepared to choose follow-on courses that explore some of these topics in much greater detail, improving their ability to tailor their degree.</li> </ul> </li> </ul>

<b>Learning Outcomes</b>
<b>A. Knowledge - Theoretical Understanding</b>
The student upon completion this course will be able to <ul style="list-style-type: none"> <li>a1: Recognize the difference between HTML, MySQL &amp; PHP , Differentiate between PHP Web &amp; HTML Controls, Understand different Web controls and Understand connecting Web pages with DB.(K1)</li> </ul>
<b>B. Knowledge - Practical Application</b>
The student upon completion this course will be able to <ul style="list-style-type: none"> <li>a2: Understand the development of webpage and problem solving using a php mysql .(K2)</li> </ul>

<b>C. Skills - Generic Problem Solving and Analytical Skills</b>
The student upon completion this course will be able to b1: Customize structures to solve problem, and write codes in PHP languages, error detection and correction.(S1)
<b>D. Skills - Communication, ICT, and Numeracy</b>
b2: Apply PHP programming language basics in a project in order to get skills and experience. (S2)
<b>E. Competence: Autonomy, Responsibility, and Context</b>
<b>Teaching and Learning Methods</b>
Distance Learning
<b>Assessment Methods</b>
<b>By quizzes, home works and exams</b>

Course Contents					
Week	Hours	CLOs	Topics	Teaching & Learning Methods	Assessment Methods
1,2	6	a1	Introduction to HTML	Distance learning	home works
3,4	6	a2	Programming and Build Webpage	Distance learning	quiz
5,6	6	a1	Introduction to PHP	Distance learning	
7	3	a1	PHP Fundamentals, Comparing String	Distance learning	
8	3	a2	Decision & Loops	Distance learning	Mid Term
9,10	6	a2	PHP Functions Pass by Value vs. reference Including files	Distance learning	
11	3	a2	Arrays(Numeric, Associative, Multidimensional, Printing Functions)	Distance learning	quiz
12	3	b1	MySQL Fundamentals, Database CRUD, MySQL Wildcards, MySQL Functions	Distance learning	
13	3	b1	MySQL (Data Type,Design,Relationships,Normalization,Performance,Administration)		home works
14	3	b2	PHP/MYSQL (connection)		
15	3	b2	Working with Forms(\$_GET , \$_POST , \$_REQUEST)		Final exam

Infrastructure	
<b>Textbook</b>	PHP.and.MySQL.for.Dynamic.Web.Sites.4th.Edition.Ullman LARY ULLMAN
<b>References</b>	ISBN 978-0321784070
<b>Required reading</b>	
<b>Electronic materials</b>	Available on : <a href="http://elearning.jadara.edu.jo/CourseContent/index/11362/">http://elearning.jadara.edu.jo/CourseContent/index/11362/</a>
<b>Other</b>	Any other book related to PHP Programming

Course Assessment Plan								
Assessment Method	Grade	CLOs						
		a1	a2	b1	b2	b3	c1	
Midterm	30 %	15%	15%	0%	0%	0%	0%	
Second (if applicable)	0%	0%	0%	0%	0%	0%	0%	
Final Exam	50%	10%	15%	15 %	10 %	0 %	0 %	
Coursework	0%	0%						
Coursework assessment methods	Assignments	5%	0%	0%	0%	5%	0%	0%
	Case study	0%	0%	0%	0%	0%	0%	0%
	Discussion and interaction	5%	1%	1%	1%	1%	1%	
	Group work activities	0%	0%	0%	0%	0%	0%	0%
	Lab tests and assignments	0%	0% online					
	Presentations (simulation)	5%	0%	0%	0%	5%	0%	0%
	Quizzes	5%	0%	0%	0%	5%	0%	0%
<b>Total</b>	<b>100 %</b>	<b>26.5%</b>	<b>31.5%</b>	<b>16%</b>	<b>26%</b>	<b>0%</b>	<b>0%</b>	

Plagiarism
<p>Plagiarism is claiming that someone else's work is your own. The department has a strict policy regarding plagiarism and, if plagiarism is indeed discovered, this policy will be applied. Note that punishments apply also to anyone assisting another to commit plagiarism (for example by knowingly allowing someone to copy your code).</p> <p>Plagiarism is different from group work in which a number of individuals share ideas on how to carry out the coursework. You are strongly encouraged to work in small groups, and you will certainly not be penalized for doing so. This means that you may work together on the program. What is important is that you have a full understanding of all aspects of the completed program. In order to allow proper assessment that this is indeed the case, you must adhere strictly to the course work requirements as outlined above and detailed in the coursework problem description. These requirements are in place to encourage individual understanding, facilitate individual assessment, and deter plagiarism.</p>