

Jordan University of Science and Technology Faculty of Computer & Information Technology Software Engineering Department

SE432 Software Engineering For Web Applications

Summer Semester 2019-2020

Course Catalog

3 Credit Hours. Detailed study of engineering methods and technologies for building highly interactive web sites for e-commerce and other web-based applications. Presents engineering principles for building web sites that exhibit high reliability, usability, security, availability, scalability, and maintainability. Teaches methods such as client-server programming, componentbased software development, middleware, and reusable components

	Text Book
Title	Professional Java for Web Applications
Author(s)	Nicholas S. Williams
Edition	10th Edition
Short Name	Ref #1
Other Information	

	Instructor						
Name	Dr. Ahmed Shatnawi						
Office Location	M2 L2						
	Sun : 10:00 - 11:30 Mon : 10:00 - 11:30 Tue : 10:00 - 11:30 Wed : 10:00 - 11:30						
Email	ahmedshatnawi@just.edu.jo						

Class Schedule & Room

Section 1

Lecture Time: Sun, Mon, Tue, Wed: 08:30 - 10:00

منصة الكترونية :Room

Prerequisites								
Line Number	Course Name	Prerequisite Type						
1743410	Cls341 Web Applications Development	Prerequisite / Study						
1763710	SE371 Client/Server Programming	Prerequisite / Study						

	Tentative List of Topics Covered								
Weeks	Торіс	References							
Week 1	Introduction to Web essentials								
Week 2	Hyper Text Transfer Protocol								
Week 3	Introduction to Client/Server Principles								
Week 3	Web servers and Java server side programming								
Weeks 5, 6, 7	Java Servlets								
Weeks 7, 8	Java Server Pages (JSP)								
Week 9	J2EE Architecture (MVC Architectural Pattern)								
Week 10	Web Security								
Week 11	Service oriented architecture (SOA)								
Week 12	Introduction to web services								
Week 13	SOAP Web Services								
Week 13	RESTful Web Services								
Week 14	Technologies and frameworks								

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the essentials of the web and the underlying protocols and the client server architecture. [1SM1p]	5%	
Demonstrate full understanding of the HTTP protocol and request/response architecture. [1EA1p]	15%	
Understand the role of web servers and Java server-side programs, JSP, JavaBean, Servlet, etc [1EP3p]	40%	
Demonstrate the ability to design and build a scalable web application that makes use of modern technologies and approaches [1EA4p]	20%	
Demonstrate the ability to apply architectural and design patterns in building scalable web applications including MVC, SOA, SOAP, RESTful, etc. [1EP7p]	10%	
Identify and discuss the security risks of Web applications and Web Services [1EP6p]	10%	

																F	Relatio	nship	to Pro	gram S	Studen	t Outc	omes (C	Out of 1	00%)				
A	В	С	D	Е	F	G	Н	I	JK	SM1p	SM2p	SM3p	EA1p	EA2p	EA3p	EA4p	D1p	D2p	D3p	D4p	D5p	D6p	ET1p	ET2p	ЕТ3р	ET4p	ЕТ5р	ЕТ6р	EP1
										5			15			20													

Evaluation						
Assessment Tool	Weight					
First Exam	20%					
Assignments	30%					
Final Exam	50%					

	Policy
HW	1. Late work will not be accepted. 2. All work has to be done independently within the team 3. Use your e-learning account to submit a softcopy of your work with your Name, Section#, and ID
Exams	1. Exam?s format is generally (but NOT always) divided into three parts: Basic Concepts, Program Analysis, and Programming. 2. Makeup exam should not be given unless there is a valid excuse accepted by the university policies.
Attendance	1. If you miss a class, it is your responsibility to find out about any announcements, quizzes, or assignments you may have missed. 2. University policies will be applied regarding attendance (check your student book). 3. Your attendance/absence is updated weekly into your student account.

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