

Al al-Bayt University Information Technology Faculty Information Systems Department

902221 Computer Network for Business Second Semester 2014/2015

Course Catalog

An introduction to the design and analysis of computer communication networks. Topics include application layer protocols, Internet protocols, network interfaces, local and wide area networks, wireless networks, bridging and routing, and current topics.

Textbook(s)	
Title	Data Communications and Networking
Author(s)	Behrouz Forouzan
Edition	5 th edition
Publisher	McGraw-Hill
Year	2013

Instructors	
Coordinator	Dr.Wafa Slaibi Alsharafat
Office Location	IT building
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Class Schedule and Locations	
Section 1:	Section 2:
Time(s): 12:30 – 14:00	Time(s): 9:30 – 11
Location: Qurish 186	Location: Master Room

Office Hours
Dr. Wafa AlSharafat : Sundays, Tuesdays : 9:30-11:00, Mondays 11:00 – 12:30

Course Objectives	Assessment Method
Objective 1 : Become familiar with layered communication architectures (OSI and TCP/IP).	Exams
Objective 2 Understand the client/server model and key application layer protocols.	Exams +assignment
Objective 3: Understand the concepts of reliable data transfer and how TCP implements	Exams +assignment
these concepts	
Objective 4: Learn the principles of routing of IP	Exams +assignment
Objective 5: Familiarize the student with current topics such as security, network	Exams +assignment
management, sensor networks, and/or other topics	

To	pics Covered	
Topic	Chapter(s) in Text	Week(s)
Introduction		
DATACOMMUNICATIONSNETWORKS	Ch1	
THE INTERNET	CIII	
 PROTOCOLS AND STANDARDS 		
Network Models		
LAYERED TASKS		
THE OSI MODEL	Ch2	
 LAYERS IN THE OSI 	Cli2	
 TCP/IP PROTOCOLS UITE 		
 ADDRESSING 		
 Data and Signals ANALOG AND DIGITAL PERIODIC ANALOG SIGNALS DIGITAL SIGNALS TRANSMISSION IMPAIRMENT DATA RATE LIMITS PERFORMANCE 	Ch3	
• FERFORMANCE		
Bandwidth Utilization	Ch6	
Analog Transmission (Additional)		
Final Exam		

	Evaluation		
Assessment Tool	Expected Due Date	Weight	
First Exam	6 th week	20%	
Second Exam	12 th week	20%	
Lab	During	10%	
Final Exam	TBA	50 %	

	Policies
Attendance	It is strongly recommended that students attend all data structure lectures. Also, university regulations mandate that students may not miss more than 10% of classes without valid excuses. In all cases, they may not miss more than 20% of classes. Should they do, they will be not be allowed to take course exams.
Homework/Lab	Students are expected to attend lab sessions and submit assignments on time.
Exams	Exams will be close-book. Exam dates will be announced later according to departmental and university schedules.
Plagiarism	You should not copy other people's work and claim it is yours. Detected plagiarism will be dealt with as per university regulations.