



"الريادة والأبداع في الأعمال"
"Entrepreneurship and
Innovation in Business"

جامعة الزيتونة الأردنية
Al-Zaytoonah University of Jordan
كلية الأعمال
Faculty of Business



"عراقة وجودة"
"Tradition and Quality"

**Detailed Course Description - Course Plan Development and Updating Procedures/
Management Information System Department**

QF05/0408-3.0E

Faculty	Business	Department	Management Information System
Course number	0506333	Course title	Networks for Business
Number of credit hours	3	Pre-requisite/co-requisite	Database Management Systems

The objectives of this course are to provide basic knowledge to understand telecommunication & networks. And emphasizes hand-on skills to handle networks efficiently & effectively.

	Course goals and learning outcomes
Goal 1	Be aware of Network Components , types , Standards, and future trends
Learning outcomes	1.1 To be able to describe different network components 1.2 To apply the networking trends in the network design process
Goal 2	Understand the Network model concept ,layer and their functions ,mainly OSI & TCP/IP models .
Learning outcomes	2.1 To be able to differentiate between the Network Models OSI and TCP/IP 2.2 To have hands on the different TCP/IP protocols
Goal 3	Understand the Application Layer Architectures
Learning outcomes	3.1 To be able to distinguish Application Layer protocols 3.2 To have hands on HTTP, FTP, SMTP,MP3.. protocols 3.3
Goal 4	Learn how the web , Email , IM . and other applications work .
Learning outcomes	4.1 To practice using the Web, E-mail, IM and other applications 4.2 To be able to differentiate between web browsers 4.3 To be able to choose between E-mail protocols
Goal 5	Be familiar with different types of Network circuits and media
Learning outcomes	5.1 To have hands on the different wiring cables 5.2 To Be able to choose between The different UTP CAT classes
Goal 6	Understand digital and analog transmission
Learning outcomes	6.1 To clearly distinguish between digital and analogue signals 6.2 To be able to describe the advantages of digital over analogue transmission
Goal 7	Understand how TCP/IP work .
Learning outcomes	7.1 To clearly describe the handshaking process 7.2 To be able to present the TCP functions
Goal 8	Explain how addressing , Routing ,Packetizing take place
Learning outcomes	8.1 To be capable of presenting the concepts of addressing, packetizing, and routing 8.2 To distinguish between the different types of routing
Goal 9	Be Familiar with LAN component , performance
Learning outcomes	9.1 To get hands on LAN components 9.2 To be able describe the role of each LAN component 9.3 To be able to set up a simple LAN



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Goal 10	Understand traditional and switched Ethernet
Learning outcomes	10.1 To Be able to differentiate between the traditional and switched Ethernets 10.2 To clearly present the advantages of switched over traditional Ethernets 10.3 To Know when to use each of the
Goal 11	Be familiar with WI-FI , WI-MAX , Bluetooth & Performance
Learning outcomes	11.1 To be able to describe the difference between WI-FI and WI-MAX 11.2 To Know when to use each of the wireless technologies
Textbook	<ul style="list-style-type: none"> - &Alan Dennis Alexandra Durcikova, Fundamentals of Business Data Communication and Networking, 9th ed, 2012. - Jafar & Sarhan, Computer Networks Technology, 1st ed, 2004
Supplementary references	<ul style="list-style-type: none"> - Raymond R. Panko, Business Data Networks and Telecommunications, 4th ed, 2003.

Course timeline				
Week	Number of hours	Course topics	Pages (textbook)	Notes
01	1	Chapter 1: Introduction to Data Communication	9-16	
	1	- Data communication Networks		
	1	- Network components, Types.		
02	1	Chapter 1: Introduction to Data Communication	17 - 22	
	1	- Network Models		
	1	- OSI Model - Internet Model		
03	1	Chapter 1: Introduction to Data Communication	23 - 32	
	1	- Network Standards		
	1	- Future Trends in Networking		
04	1	Chapter 2: Application Layer	43 - 51	
	1	- Application Architectures		
	1	- Host Base , client-base , client-server - Choosing Architecture		
05	1	Chapter 2: Application Layer	52 - 58	
	1	- Word wide web , how it works		
	1	- Inside HTTP - E-Mail , how it works		
06	1	Chapter 2: Application Layer	58 - 69	
	1	- List Serve		
	1	- Instant Messaging - FTP - Telnet - Video Conferencing		
07	1	Chapter 3: Physical Layer	78 - 87	
	1	- Circuits , Circuit Configuration		



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	1	- Data flow - Multiplexing		
08	1 1 1	Chapter 3: Physical Layer - How DSL Transmit data - Transmission media - Guided Media	88 - 89	
09	1 1 1	Chapter 3: Physical Layer - Wireless Media - Media selection - Analog and Digital Transmission	90 - 95	
10	1 1 1	Chapter 5 : Network and Transmission Layers - Protocols - Transport Layer Functions Linking Application Layer	150 - 156	
11	1 1 1	Chapter 5: Network and Transmission Layers - Packetizing - Addressing	157 - 165	
12	1 1 1	Chapter 5: Network and Transmission Layers - Routing - TCP/IP Example	166 - 184	
13	1 1 1	Chapter 6: Local Area Networks - Why using LANs , LAN Types - LAN Components	199 - 208	
14	1 1 1	Chapter 6: Local Area Networks - Traditional Ethernet (IEEE802.3) - Topology , Media Access Control - Types Of Ethernet	209 - 212	
15	1 1 1	Chapter 6: Local Area Networks - Switched Ethernet - Topology , Media Access control - Best Performance	213 - 225	
16	1 1 1	Chapter 7: Wireless Local Area Networks - WLAN components - WI-FI , WI-MAX , Bluetooth - Improving WLAN Performance	234 - 245	

Theoretical course evaluation methods and weight	Participation = 10% First exam 20% Second exam 20% Final exam 50%	Practical (clinical) course evaluation methods	Semester students' work = 50% (Reports, research, quizzes, etc.) Final exam = 50%
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Approved by head of department		Date of approval	
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Extra information (to be updated every semester by corresponding faculty member)

Name of teacher		Office Number	
Phone number (extension)		Email	
Office hours			