

جامعــة الزيتونــة الأردنـيــة Al-Zaytoonah University of Jordan





QF05/0408-4.0 E

Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Management Information Systems Department

Study plan No.	Business		University Specialization		Management Information Systems	
Course No.	0506314		Course name		Data Transmission for	
					Business	
Credit	3		Promognicital Co magnicita		0506111	
Hours			Prerequisite/ Co-requisite			
Course type	MANDATORY UNIVERSITY REQUIREMENT	UNIVERSITY ELECTIVE REQUIREMENTS	FACULTY MANDATORY REQUIREMENT	Support course family requirements	✓ Mandatory requirements	Elective requirements
Teaching style	Full online learning		✓ Blended learning Traditional le		Traditional lear	ning
Teaching model	1 Synchronous: 1 asynchronous		✓ 2 face to fa asynchron		2 Traditional	

Faculty member and study divisions' information (to be filled in each semester by the subject instructor)

Name	Academic rank	Office No.	Phone No.	E-mail	
Division number	Time	Place	Number of students	Teaching style	Approved model
1				Blended	2:1

Brief description

Business Data Communications. The study of the movement of information (data) from one device to another by means of electrical, optical, radio or satellite transmission systems. This course will introduce the architecture, concepts, terminology, design, and management issues related to the modern environment of networking and data communications. Various types of networks and communication systems, protocols, regulatory issues and policies will be explored.

Learning resources

Course book information (Title, author, date of issue, publisher etc.)	Business Communication: Process & Product. Guffey, M. and Loewy, D. Cengage Learning; 9 th edition, 2017. ISBN: 978-1305957961.			
Supportive learning resources (Books, databases, periodicals, software, applications, others)	 Business Data Communications and Networking. Jerry F. G., Alan Dennis, and Alexandra D.; 12th edition. 2015. Technical Communication. Markel, M. Bedford/St. Martin's 2012. The Essential of Business Communication. Guffey, M. Thomson; 7th edition. 2007. 			
Supporting websites				
The physical environment for teaching	Class room	✓ labs	✓ Virtual educational platform	Others
Necessary equipment and software				
Supporting people with special needs				
For technical support				



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Course learning outcomes (S = Skills, C = Competences K = Knowledge,)

No.	Course learning outcomes	The associated program learning output code
	Knowledge	
K1	Understand the effective of business communication that create effective business environment	MK1
K2	The student will be able to apply team work skills ethically in the work place.	MK3
К3	The student will be able to publicly present work effectively to business audience	MK2
	Skills	
S1	The student will be able to apply team work skills ethically in the work place.	MS1
S2	Understand how to create various effective business documents	MS2
	Competences	
C1	The student will be able to apply team work skills ethically in the work place.	MC1
C2	The student will be able to publicly present work effectively to business audience	MC2

Mechanisms for direct evaluation of learning outcomes

Type of assessment / learning style	Fully electronic learning	Blended learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
Midterm exam		30%		
Participation / practical applications		0		
Asynchronous interactive activities		30%		
Final exam		40%		

Note 1: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

Note 2: According to the Regulations of granting Master's degree at Al-Zaytoonah University of Jordan, 40% of final evaluation goes for the final exam, and 60% for the semester work (examinations, reports, research or any scientific activity assigned to the student).



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Schedule of simultaneous / face-to-face encounters and their topics

Week	Subject	learning style*	Reference **
1	Introduction to Data Communication	Lecture	
	- Data communication Networks		Chapter 1
	- Network components, Types.		
2	Introduction to Data Communication	Lecture	
	- Network Models		Chapter 1
	- OSI Model		Chapter 1
	- Internet Model	-	
3	Introduction to Data Communication	Lecture	
	- Network Standards		Chapter 1
4	- Future Trends in Networking	Lastura	
4	Application Layer	Lecture	
	- Application Architectures		Chapter 2
	- Host Base, client-base, client-server		
5	Choosing Architecture Application Layer	Lecture	
3	- Word wide web , how it works	Doctaro	
	- Word wide web, now it works - Inside HTTP		Chapter 2
	E-Mail , how it works		
6	Application Layer	Lecture	
· ·	- List Serve		
	- Instant Messaging		
	- FTP		Chapter 2
	- Telnet		
	- Video Conferencing		
7	Physical Layer	Lecture	
	- Circuits		
	- Circuit Configuration		Chapter 3
	- Data flow		
8	Physical Layer	Lecture	
	- Multiplexing		Charten 2
	- Communication Media		Chapter 3
	- Media selection		
9	Data Link Layer	Lecture	
	- Media access control		Chapter 4
	- Error Control		
10	Data Link layer	Lecture	
	- Error prevention		
	- Error detection		Chapter 4
11	Transport and Network Layers	Lecture	
	- Message transmission using layers		Chapter 5
	- Transport and Network Layer		Chapter 5
	protocols		
12	Transport and Network Layers	Lecture	Chapter 5



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13	- Transmission Control Protocol (TCP) - Internet Protocol (IP) Transport and Network Layers - Transport layer functions	Lecture	Chapter 5
	. ,		Chapter 5
14	Transport and Network Layers - Segmentation - Session management - Connection-Oriented Messaging	Lecture	Chapter 5
15	Transport and Network Layers - Connectionless Messaging - Quality of Service	Lecture	Chapter 5
16	Final Exam		

^{*} Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

** Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.

Schedule of asynchronous interactive activities (in the case of e-learning and blended learning)

Week	Task / activity	Reference	Expected results
1	Knowing what is the Network		
	components, Types.		
2	Writing the Future Trends in		
	Networking Types as Examples		
3	Why using Networking Types.		
4	Examples to Network Models types.		
5	Network Models types, How it works		
6	Creating and using Network Models		
	types in an example.		
7	Choosing Architecture in an Application		
	Layer		
8	Presenting E-Mail techniques, how it		
	works. Examples		
9	Designing Circuits, Circuit		
	Configuration in an Application Layer.		
10	Data flow in an Application Layer. How		
	it works. Examples		
11	What is the types of Multiplexing		
12	Writing the types of Guided Media.		
13	Writing the types of Wireless Media		
14	How DSL Transmit data		
15	What is the deferent between Analog		
	and Digital Transmission and give an		
	example.		
16	How Analog and Digital Transmission		
	work.		