

Course Syllabus

1	Course title	Business Data Communications and Networking	
2	Course number	1605441	
3	Credit hours	3	
	Contact hours (theory, practical)	3	
4	Prerequisites/corequisites	1605215	
5	Program title	BA. Management Information Systems	
6	Program code	1605	
7	Awarding institution	The University of Jordan	
8	School	Business School	
9	Department	Management Information Systems	
10	Course level		
11	Year of study and semester (s)	2022/2023	
12	Other department (s) involved in teaching the course		
13	Main teaching language	English	
14	Delivery method	<input type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input checked="" type="checkbox"/> Fully online	
15	Online platforms(s)	<input checked="" type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	Issuing/Revision Date		

17 Course Coordinator:

Name: Dr.Mohammad Al Nawayseh	Contact hours: Sunday – Thursday 12:00 – 1:00
Office number:	Phone number:
Email: m.nawaiseh@ju.edu.jo	

**18 Other instructors:**

Name:

Office number:

Phone number:

Email:

Contact hours:

Name:

Office number:

Phone number:

Email:

Contact hours:

19 Course Description:

Introducing the principles of Data Communications and Networking, the telecommunication systems and the different protocols and computer networks required to know by the business organizations, the foundations extend to coverage of communication concepts, transmission media, signal representation and modulation, packet switching and routing, network topology and architecture, network management and Internet protocols TCP/IP.



20 Course aims and outcomes:

A- Aims:

1. Independently understand basic computer network technology.
2. Understand and explain Data Communications System and its components.
3. Identify the different types of network topologies and protocols.
4. Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer.
5. Identify the different types of network devices and their functions within a network
6. Understand and building the skills of subnetting and routing mechanisms

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

SLOs SLOs of the course	SLO (1)	SLO (2)	SLO (3)	SLO (4)
Understand basic network terminologies, including the definition of networking, networked applications, hosts, network addresses, the network core, access links, the evolution of networked applications, and speed.				
Discuss major standards architectures, especially TCP/IP, OSI, and the hybrid TCP/IP-OSI standards architecture.				

Discuss message syntax in general and in Ethernet frames, IP packets, TCP segments, UDP datagrams, and HTTP request and response messages.				
Describe signals and propagation effects.				
Describe unshielded twisted-pair (UTP) wiring and optical fiber cabling.				
Describe wireless LAN technologies and explain radio signal propagation: frequencies, antennas, and wireless propagation problems.				
Describe 802.11 WLAN operation, compare and contrast it's transmission standards.				
Describe Switch operations and router operations.				

21. Topic Outline and Schedule:

Week	Lecture	Topic	Intended Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1.1	Syllabus		Online	MS/Teams			Textbook
	1.2	Networking: How We Get Here		Online	MS/Teams		Exam	Textbook
	1.3			Online	MS/Teams		Exam	Textbook
2	2.1			Online	MS/Teams		Exam	Textbook
	2.2			Online	MS/Teams		Exam	Textbook
	2.3			Online	MS/Teams		Exam	Textbook
Week	Lecture	Topic	Intended Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
3	3.1	Network Standards		Online	MS/Teams		Exam	Textbook
	3.2			Online	MS/Teams		Exam	Textbook
	3.3			Online	MS/Teams		Exam	Textbook
4	4.1	Network Standards		Online	MS/Teams		Exam	Textbook
	4.2			Online	MS/Teams		Exam	Textbook
	4.3			Online	MS/Teams		Exam	Textbook

5	5.1	Physical Layer Propagation		Online	MS/Teams		Exam	Textbook
	5.2			Online	MS/Teams		Exam	Textbook
	5.3			Online	MS/Teams		Exam	Textbook
6	6.1	Physical Layer Propagation		Online	MS/Teams		Exam	Textbook
	6.2			Online	MS/Teams		Exam	Textbook
	6.3			Online	MS/Teams		Exam	Textbook
7	7.1	Switched Wired Networks		Online	MS/Teams		Exam	Textbook
	7.2			Online	MS/Teams		Exam	Textbook
	7.3			Online	MS/Teams		Exam	Textbook
8	8.1	Switched Wired Networks		Online	MS/Teams		Exam	Textbook
	8.2			Online	MS/Teams		Exam	Textbook
	8.3			Online	MS/Teams		Exam	Textbook
9	9.1	Wireless Network		Online	MS/Teams		Exam	Textbook
	9.2			Online	MS/Teams		Exam	Textbook
	9.3			Online	MS/Teams		Exam	Textbook
10	10.1	Wireless Network		Online	MS/Teams		Exam	Textbook
	10.2			Online	MS/Teams		Exam	Textbook
	10.3			Online	MS/Teams		Exam	Textbook

11	11.1	TCP/IP Internetworking		Online	MS/Teams		Exam	Textbook
	11.2			Online	MS/Teams		Exam	Textbook
	11.3			Online	MS/Teams		Exam	Textbook
12	12.1	TCP/IP Internetworking		Online	MS/Teams		Exam	Textbook
	12.2			Online	MS/Teams		Exam	Textbook
	12.3			Online	MS/Teams			Textbook
13	13.1			Online	MS/Teams			Textbook
	13.2			Online	MS/Teams			Textbook
	13.3			Online	MS/Teams			Textbook
14	14.1			Online	MS/Teams			Textbook
	14.2			Online	MS/Teams			Textbook
	14.3			Online	MS/Teams			Textbook
15	15.1			Online	MS/Teams			Textbook
	15.2			Online	MS/Teams			Textbook
	15.3			Online	MS/Teams			Textbook

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Quizzes	10				



Midterms	30				
Assignments	10				
Projects/Case studies					
Final	50				
Total	100				

23 Course Requirements

(e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):

24 Course Policies:

- A- Attendance policies:
- B- Absences from exams and submitting assignments on time:
- C- Health and safety procedures:
- D- Honesty policy regarding cheating, plagiarism, misbehavior:
- E- Grading policy:



F- Available university services that support achievement in the course:

25 References:

A- Required book(s), assigned reading and audio-visuals:

Business Data Networks and Telecommunications, Eighth Edition for Raymond R.Panko and Julia L.Panko, Pearson Education

B- Recommended books, materials, and media:

26 Additional information:

Name of Course Coordinator: Dr.Mohammad Al Nawayseh Signature: ----- Date: -----

Head of Curriculum Committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of Curriculum Committee/Faculty: ----- Signature: -----

Dean: ----- Signature: -----