



Jordan University of Science and Technology
Faculty of Computer & Information Technology
Computer Information Systems Department

CIS441 Business Data Communication

First Semester 2020-2021

Course Catalog

3 Credit Hours. This course is an introduction to principles of data communications and networking. It covers the telecommunication systems and different protocols and computer networks required to know by business organizations. The coverage extends to communication concepts, transmission media, signal representation and modulation, packet switching and routing, network topology and architecture, network management and Internet protocols TCP/IP. Finally, basic concepts of security in networks are discussed.

Text Book

Title	Business Data Networks and Telecommunications
Author(s)	Raymond R. Panko
Edition	8th Edition
Short Name	TextBook
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
R1	Business Data Communications and Networking	Jerry FitzGerald and Alan Dennis		
R2	CCNA Semester 1	CISCO	1st Edition	

Instructor

Name	Dr. Qussai Yaseen
Office Location	Engineering Building A2 L3 Rm#5

Office Hours	Sun : 09:00 - 10:00 Mon : 09:00 - 11:00 Wed : 09:00 - 11:00 Thu : 09:00 - 11:00
Email	qmyaseen@just.edu.jo

Instructor	
Name	Mr. Abedl-Rahman Almodawar
Office Location	A1 L3
Office Hours	Sun : 10:00 - 11:30 Mon : 10:00 - 11:30 Tue : 10:00 - 11:30 Wed : 10:00 - 11:30
Email	aaalmodawar@just.edu.jo

Class Schedule & Room	
Section 1:	Lecture Time: Sun, Tue : 08:30 - 10:00 Room: منصة الكترونية
Section 2:	Lecture Time: Sun, Tue : 13:00 - 14:30 Room: منصة الكترونية

Teaching Assistant	
(Section 2), (Section 2), (Section 2), Mr. Naser Aldeen Sereihen()	

Prerequisites		
Line Number	Course Name	Prerequisite Type
1732112	CS211 Data Structures	Prerequisite / Study
1712360	CPE236 Digital Logic Design	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Inroduction to Networking part I	From TextBook , From R1
Week 2	Introduction to Networking part II	From TextBook , From R2
Week 3	Network Standards	From TextBook
Week 4	Physical Layer Propagation Part I	From TextBook , From R2

Week 5	Physical Layer Propagation Part II	From TextBook
Weeks 6, 7	Ethernet LANs	From TextBook
Week 8	Wireless LANs	From TextBook
Week 9	Wireless LANs Security	From TextBook , From R1
Weeks 10, 11	Telecommunications	From TextBook
Week 12	Wide Area Networks (WANs)	From TextBook
Week 13	Build a Small Network lab	From R2
Week 14	IP Address and Subnets	From TextBook
Weeks 15, 16	TCP/IP Internetworking	From TextBook , From R1

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the conceptual foundation of networking [1SO1, 1SO2]	10%	
Understand the different types of network and their standards including Ethernet network, wireless network and WAN [1SO1, 1SO2]	25%	
Understand the upper layer protocols whether at the Network layer such IP protocol, transport layer such as TCP, UDP or at other layers such as DNS, DHCP, and IMAP. [1B, 1E, 1SO1, 1SO2, 1SO6]	50%	
Apply the basic network terminologies in practice [1SO6]	15%	

Relationship to Program Student Outcomes (Out of 100%)																
A	B	C	D	E	F	G	H	I	J	K	SO1	SO2	SO3	SO4	SO5	SO6
	10			10							27.50	27.50				25

Evaluation	
Assessment Tool	Weight
Lab Exam	10%
Med Exam	25%
Final Exam	50%
Activities	15%

Policy

Teaching & Learning Methods	<p>- Class lectures: Class lectures will expose students to the knowledge required by this course - Class Discussions: Relevant issues will be discussed in class. These discussions are supposed to improve the students communication and problem solving skills by motivating them to express their opinions. - Self-study: Students will be required to study the online material, answer quizzes and configure network devices using packet tracer. This learning method aims at improving the students' learning skills.</p>
Other Policies and Notes	<p>Attendance: Excellent attendance is expected. In accordance with university regulations, students missing more than 20% of total classes are subject to failure. No excuses will be accepted. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed. Attendance will be recorded at the beginning or end of each class. Exams: All exams will be CLOSE-BOOK. The format for the exams is generally as follows: multiple-choice, and short essay questions. Makeup Exams: Makeup exam should not be given unless there is a valid excuse. Arrangements to take an exam at a time different than the one scheduled MUST be made prior to the scheduled exam time. In accordance with university regulations, students should bring a valid excuse authenticated through valid channels in JUST. Workload Average: workload student should expect to spend is 4 hours/week. Code of Conduct: Quizzes and exams need to be done individually. Copying of another student's work, even if changes are subsequently made, is inappropriate, and such work will not be accepted. Cheating or copying from neighbor on exam is an illegal and unethical activity and standard JUST policy will be applied. All graded assignments must be your own work.</p>

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