



United International University

School of Business and Economics

Course Outline & Schedule

Faculty Name: Ahmed Imran Kabir	Email: iamahmedimrankabir@gmail.com Website: ahmedimrankabir.weebly.com Semester: Spring 2018
Course Title: Data Communication System	Course Code : MIS 4283 Credit Hours:03
Course Category : Major	Program: Bachelor Of Business Administration.
Class Duration: 1 Hour 30 Minutes Venue: Computer Lab 2; Room 0227	Time Slot: SUN & WED- 1:30 pm- 3:00 pm (A) SAT & TUE- 1:30 pm- 3:00 pm (B) **Office Hours will be updated later on the website**

Course Objective: This course provides an in-depth knowledge of the principles of hierarchical network design to structure and modularize an enterprise network. It will also provide knowledge on data communications and networking requirements, including networking technologies, hardware, and software. This course focuses on the technology and methods that are currently available. Key topic areas of the course are:

- Network Standards, Technologies & Protocols
- Structuring and Modularizing the Network
- Designing Campus Infrastructure and Data Center
- Designing for Basic Wireless Networking
- Designing IP Addressing
- Designing Remote Connectivity
- Evaluating Security Solutions for the Network

Course Outcome: Upon successful completion of the course, the student will be able:

1. To learn the design principles of communication networks
2. To describe the fundamentals of modern data communications, organizational interconnectivity, Internet technologies, and to relate them to a business environment. To analyze and document requirements
3. Recognize common Internet communication protocols and describe the services associated with them.
4. Demonstrate understanding of manager role in developing a communication infrastructure.
5. Present (in oral form) the relative advantages and limitations of network and communication technologies and configurations.
6. Recognize security threats an organization is exposed to and develop an understanding of security protection techniques and practices.

Teaching techniques: Discussion on the theoretical background of each topic, in- class problem solving after completion of each topic, relevant / similar problems will be assigned for self practice.

Evaluation Policy:

Evaluation is comprised of:

Midterm Exam 25%

Final Exam 40%

Individual Assignments and /or quizzes 15% (To be announced on class)

Networking Project and Defense 15% (To be announced on class)

Attendance 5%

Required Text Book

Author	Title	Edition & Year	Publisher	ISBN
Fitzgerald, Dennis, & Durcikova.	Business Data Communications and Networking,	11th Edition 2012	Wiley Publishing	ISBN: 978-1-118-08683-4

** You can follow the Pdf book that has been provided in my website. But if you want your printed copy of book you can get a printed copy of the pdf file at (<https://www.facebook.com/BookBuyBD5/>). This is not for business purpose. I use this service to get my pdf's to be printed.

Grading Policy	Letter Grade	Marks %	Grade Point	Letter Grade	Marks%	Grade Point
	A (Plain)	90-100	4.00	C+ (Plus)	70-73	2.33
	A- (Minus)	86-89	3.67	C (Plain)	66-69	2.00
	B+ (Plus)	82-85	3.33	C- (Minus)	62-65	1.67
	B (Plain)	78-81	3.00	D+ (Plus)	58-61	1.33
	B- (Minus)	74-77	2.67	D (Plain)	55-57	1.00
				F (Fail)	<55	0.00

Lecture No:	Topic/ Content	Remarks
1	Topic 1: Orientation/ Introduction; Internet overview: Chapter 1 (Introduction to data communication)	Orientation
2	Topic 2: Chapter 1: Internet Overview and Fundamental Concepts Chapter 1 (Introduction to data communication) Chapter 2 (Application Layer)	Lecture
3	Topic 3: Fundamental Concepts Chapter 3 (Physical Layer)	Lecture
4	Topic 4: Fundamental Concepts + Quiz 1 Chapter 4 (Data Link Layer) <u>Quiz 1: (Chapter 1, 2, 3)</u> *** GROUP FORMATION FOR CAPSTONE PROJECT***	Lecture + <u>Quiz 1+</u> <u>Discussion</u> <u>on</u> <u>Capstone</u> <u>Project</u>
5	Topic 5: Fundamental Concepts Chapter 4 (Data Link Layer) *** GROUP FORMATION FOR CAPSTONE PROJECT***	Lecture+ <u>Discuss on</u> <u>Capstone</u> <u>project</u>
6	Topic 6: Fundamental Concepts Chapter 5 (Network and Transport Layer)	Lecture
7	Topic 7: Fundamental Concepts Chapter 5 (Network and Transport Layer)	Lecture
8	Topic 8: Network Technologies Chapter 6 (Wired and Wireless Local Area Networks)	Lecture
9	Topic 9: Network Technologies Chapter 6 (Wired and Wireless Local Area Networks)	Lecture
10	Topic 10: Network Technologies + Quiz 2 Chapter 7 (Backbone Networks) <u>Quiz 2 : (Chapter 4, 5, 6)</u>	Lecture + <u>Quiz 2</u>
11	Topic 11: Network Technologies Chapter 7 (Backbone Networks)	
12	Review of Chapter (1-7) For Mid-term Exam	Review Class

13	***Mid-Term Examination***	
14	Topic 12: Network Technologies Chapter 8 (Wide Area Networks)	Lecture
15	Topic 13: Network Technologies Chapter 8 (Wide Area Networks)	Lecture
16	Topic 14: Network Technologies Chapter 9 (The Internet)	Lecture
17	Topic 15: Network Technologies Chapter 9 (The Internet)	Lecture
18	Topic 16: Network Management + Quiz 3 Chapter 10 (Network Security) <u>Quiz 3 (Chapter 8, 9)</u>	Lecture + <u>Quiz 3</u>
19	Topic 17: Network Management Chapter 10 (Network Security)	Lecture
20	Topic 18: Network Management Chapter 11 (Network Design)	Lecture
21	Topic 19: Network Management Chapter 11 (Network Design)	Lecture
22	Topic 20: Network Management + Quiz 4 Chapter 12 (Network Management) <u>Quiz 4 (Chapter 10, 11)</u>	Lecture + <u>Quiz 4</u>
23	Topic 21: Network Management Chapter 12 (Network Management)	Lecture
24	Networking Project Defense ***Defense of your Project***	<u>Capstone</u> <u>project</u> <u>defense</u>
25	***Defense of your Project*** + Final exam review (Remaining)	<u>Capstone</u> <u>project</u> <u>defense</u>
26	***Final Examination***	

Note: The instructor reserves the right to make changes to the syllabus if necessary.