Communication Networks and Security

CISY 4436

Zahoor Khan, PhD

Last updated: January 2014

CISY 4436 (2G)

Course name: Communication Networks and Security

Time: TR- 1pm -215pm
Instructor: Dr. Zahoor Khan
Phone: 494-1876 (Dal office)

Web site: www.cs.dal.ca/~zkhan/4436
Email: <u>zahoor.khan@smu.ca</u> or @dal.ca

Office Hours: Send email

Goals of the course:

architectures

- ▶ Basic concepts of network standards, security, and design
- > Demonstrate the common data communication

Required/recommended Textbook/material:

- Business Data networks and Telecommunications (9e) by R. Panko, Prentice Hall
- 2. Additional handouts may be provided by the instructor

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Grading Scheme

Exam/Projects/Exercises	<u>Weight</u>
Assignments	15 %
Project	35 %
Midterm	30 %
Class participation	10 %
In-class test	10 %

Total: 100 %

3

Assignments

- Three assignments
- First
 - Distributed: Thursday Jan 23
 - Due: Thursday Jan 30 (Before Lecture)
- Second
 - Distributed: Thursday Jan 30
 - Due: Thursday Feb o6 (Before Lecture)
- Third
 - Distributed: Thursday Feb o6
 - Due: Thursday Feb 13 (Before Lecture)

Projects

- Possible areas
 - Cloud computing
 - Wired networks
 - Wireless networks
 - Internetworking
 - Wide area network
 - Network security
 - Sensor Networks

5

Projects

- Abstract
 - Title and brief description
 - Due on Feb 6
 - Finalize on Feb 13
- Project presentations
 - Week 13 (March 25, 27)
- Project slides due on March 27
- Project report due on April 4

Announcements and Email

- Email address and name
 - As already used for course registration
- Student's responsibility
 - Must check the course announcement webpage
 - Make sure email address is working
- Very important message can also be sent
 - Via your email address used in smu system
 - For course registration (Blackboard)
- Exercises, projects and course material
 - Will be distributed in class or on webpage

7

Students with Special Needs

- Please contact
 - The Atlantic Centre:
 - http://www.smu.ca/administration/atlcentre/

Course Outline

Chapter 1: Welcome to the cloud Chapter 2: Network standard Chapter 3: Network security

Chapter 4: Network management **Chapter 5**: Wired Ethernet LANs

Chapter 6: Wireless LANs I **Chapter 7**: Wireless LANs II

Chapter 8: TCP/IP Internetworking I Chapter 9: TCP/IP Internetworking II Chapter 10: Wide Area Networks Chapter 11: Networked Applications

Slide 9

Weekly Schedule

Weekly Schedule		
Week No.	<u>Topics</u>	
1	Chapter 1	
2	Chapters 2	
3	Chapter 2	
4	Chapter 5	
5	Chapter 6	
6	Chapter 7	
7	Winter Break	
8	Chapter 8	
9	Chapter 9	
10	Chapter 11	
11	Chapter 10	
12	Chapters 3	
13	Project Presentations	

End of Course Introduction