

# 01219324 Data Communication and Networks

Sec 450 1<sup>st</sup> semester 2016 (Aug – Dec)

## Instructor Information

Instructor: Asso.Prof.Dr. Anan Phonphoem ( รศ.ดร.อนันต์ ผลเพิ่ม )  
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## Course Information

Lecture: Wed 9:00 – 12:00 Building 15, Room 204  
Class URL: <http://www.cpe.ku.ac.th/~anan/> → Teach  
Prerequisite: -  
Course Description: Data communication network; data transmission; data link controls; local area network and wide area network; communication architecture and protocols; service-oriented programming.  
Course Objective: Students become familiar with Data Communications and Network concepts and terminologies. Students should understand the network characteristics, certain network applications and security.  
Text Book: “**Computer Networks and Internets**”, *Douglas E.Comer*, Person Education Inc., Prentice Hall, 4<sup>th</sup> Edition, 2004, ISBN 0-13-123627-X  
Supplement: “**Data Communications and Networking**,” Behrouz A.Fourouzan, Mc Graw-Hill, ISBN 0-07-118160-1

## Grades

Midterm exam:	40 %
Final exam:	40 %
Quiz:	10 %
HW and assignment:	10 %

## Grading Policy

- Your Grade is based on the overall class performance. However, the cumulative score below 50% is considered as fail (F).
- An “F” grade will be given to any form of cheating (for all parties).
- You are not allowed to take the exam (or quiz) if > 15 min late.
- Make-up exam will only be provided for restrict circumstances such as severe illness.

## Assignment Policy

- All hard-copy assignments must be handed in at the beginning of the class (> 15 min. is considered late). For soft-copy will be timed by the local time stamp.
- No Late assignment will be graded.
- No credit for plagiarism and considered as cheating.
- No credit for copying homework or assignment (for all copies) and considered as cheating.

## Tentative Course Schedule

Week	Date	Description
1	Wed, Aug 10	Course orientation Introduction to Computer Network and Internet; Network Applications
2	Wed, Aug 17	Network Programming and Traffic Analysis (hands-on lab) Internet Applications
3	Wed, Aug 24	Network models
4	Wed, Aug 31	Signals and Information Sources
5	Wed, Sep 7	Transmission media Reliability in communication
6	Wed, Sep 14	Modulation and Demodulation Access Technologies
7	Wed, Sep 21	Medium Access Control Data Link Layer Standards
	Wed, Sep 28	Midterm Exam
8	Wed, Oct 5	Wireless Network Technologies Extending LANs
9	Wed, Oct 12	IP Addressing
	Wed, Oct 19	No Class (Graduation Day)
	Wed, Oct 26	No Class (Graduation Day)
10	Wed, Nov 2	Web services
11	Wed, Nov 9	Internetworking and Dynamic Routing Datagram Forwarding
12	Wed, Nov 16	Supporting Protocols in TCP/IP Suites
13	Wed, Nov 23	TCP and UDP
14	Wed, Nov 30	IP version 6
	Wed, Dec 7	Reserved
	Tue, Dec 13	Final Exam