

01204421 Computer Networks

2nd Semester 2014 (Jan – May 2015)

Instructor Information

Instructor: Asso.Prof. Anan Phonphoem, Ph.D. (อศ.ดร.อนันต์ ผลเพิ่ม)
Office: Building 15, Room #407 and #710 (Iwing Lab)
Office Hours: Monday 11:00 – 12:30 (Walk-In) or by appointment (See Schedule)
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Research Lab: Intelligent Wireless Network Group (IWING) <http://iwing.cpe.ku.ac.th>

Course Information

Lecture: Fri 9:00 – 12:00, Building 15, Room E203
Class URL: <http://www.cpe.ku.ac.th/~anan/>
Prerequisite: -
Course Description: Internet Protocol version 4 and 6; ICMP and IGMP; Multicast; Classless Inter-domain Routing; Routing Algorithm (RIP, OSPF, IS-IS, and BGP); Transport Protocol (TCP and UDP); Multiprotocol Label Switching (MPLS); Application Protocols; Network Management and Security
Course Objective: Students become familiar with Computer Network concepts and terminologies for current and coming technologies. Students should understand the network characteristics and implementation.
Text Book: “TCP/IP Protocol Suit,” Behrouz A.Fourouzan, Mc Graw-Hill, 3rd Edition, ISBN 0-07-111583-8
Supplement: “Computer Networks, A System Approach”, Larry Peterson and Bruce S. Davie, Morgan Kaufmann, 4th Edition, 2007, ISBN 0-12-374013-4
“The Internet and Its Protocols”, Adrian Farrel, Morgan Kaufmann, 2004, ISBN 1-55860-913-X

Grades

Midterm exam: 42.5 %
Final exam: 42.5 %
HW assignment and/or Project: 15 % (this is a tentative percentage, subject to change)
Attendance: **If** ((Attendance Score >= **0.90**) **and** (You are the **1st rank** for the particular grade))
Then (one stop adjustment automatically) /* e.g. “C+” becomes “B” */

Attendance Score

Description	Score (0 – 1)
0 – 15 min	1
15.01 – 100 min	(100 – MinLate)/100
> 100 min	0
If missing class	
• with “letter of leave of absence in advanced”	0.5
• without “letter of leave of absence in advanced”	0

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).
- Make-up exam will only be provided for restrict circumstances such as severe illness.
- You are not allowed to take a midterm exam if you miss more than 2 lectures and also not allowed to take final exam if you miss more than 4 lectures.

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	Fri, Jan 16	Course orientation; Data Communication Review (Protocols; Addressing; Layering Concept)
2	Fri, Jan 23	Internet Protocol (IPv4) I; Addressing
3	Fri, Jan 30	Kaset Fair (Jan 30 – Feb 7, 2015) Internet Protocol (IPv4) II; Supporting Protocol (ARP, ICMP)
4	Fri, Feb 6	Kaset Fair (Jan 30 – Feb 7, 2015) Internet Protocol (IPv4) III; NAT, DHCP
5	Fri, Feb 13	Multicast; Addressing; IGMP
	Fri, Feb 20	No Class (Master Thesis Exam in Japan)
6	Fri, Feb 27	IPv6; Addressing; IPv4 and IPv6 Comparison
7	Fri, Mar 6	CIDR, VLSM
	Fri, Mar 13	No Class (Samati, ChiangMai)
	Sun, Mar 22 @ 4 – 7 PM	Midterm Exam
8	Fri, Mar 27	Routing Protocol I; Routing concept, RIP and OSPF
9	Fri, Apr 3	Routing Protocol II; IS-IS; BGP; Multicast Routing
10	Fri, Apr 10	Transport Protocol; UDP and TCP
11	Fri, Apr 17	Multiprotocol Label Switching (MPLS)
12	Fri, Apr 24	Application Protocol I ; Concept, DNS
13	Fri, May 1	Application Protocol II ; Telnet, FTP, SMTP
14	Fri, May 8	Network Management; Security ; Virtual Private Network
	Mon, May 18 @ 1 – 4 PM	Final Exam