Computer Networks

<table>
<tr><td rowspan="3">Course Name</td><td>Course type (credit/hours)</td><td>Required course(3/3)</td><td>Course code</td><td>F108</td></tr>
<tr><td>Target students Division/major/grade</td><td>Software and Computer Engineering/Sophomore</td><td>Opening semester</td><td>2021 2ND SEMESTER</td></tr>
<tr><td>Class time and classroom</td><td>Mon E(Pal409)Wed E(Pal409)</td><td>English Grade</td><td>A(100%English)</td></tr>
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Reference to this course	Prerequisite courses	
	Related basic courses	
	Recommended concurrent courses	
	Related advanced courses	wireless networks, network software

<table>
<tr><td rowspan="3">Instructor</td><td>Name (title/division)</td><td colspan="4">PAUL RAJIB(Assistant Professor, Software and Computer Engineering)</td></tr>
<tr><td>Office Room Number</td><td>Paldal 1011</td><td>Office phone Number</td><td></td><td>e-mail</td><td></td></tr>
<tr><td>Office hours</td><td></td><td>Homepage address</td><td colspan="3">http://mmcn.ajou.ac.kr</td></tr>
<tr><td rowspan="2">Teaching Assistant</td><td>Name (title/division)</td><td colspan="4"></td></tr>
<tr><td>Office Room Number</td><td></td><td>Office phone Number</td><td></td><td>e-mail</td><td></td></tr>
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1. Introduction

2. Course Objectives

<Training Goal>
The educational objective of this subject is to provide a general understanding of the architecture, protocols, and related applications of computer networks.

<Subject Learning Achievement>
1. Although computer networks have been used from a user's perspective so far, they can understand how they actually work, and understand relevant protocols along the Internet Protocol Sticks that are currently being used most frequently.

2. It also gives students an opportunity to understand protocols that are not currently applied to the Internet but are under development, and will be able to secure basic knowledge of information and communication in research institutes and industries.

3. In addition, we can understand the technology trends of the next generation of Internet and ubiquitous era that are rapidly changing around the world and have the skills to cope with them in the future.

3. Class types and activities

4. Teaching Method

- [✓] lecture
- [ ] team project(presentation and case studies)
- [ ] designing and production
- [ ] others
- [ ] discussion and debate
- [ ] experiments(role-playing,etc)
- [ ] on-site learning(on-site training)

5. Support Systems in Use

- [✓] AjouBb
- [ ] cyber lecture
- [ ] class behavior analyazing system
- [✓] automatic recording system
- [ ] online content
- [ ] others
- [ ] web-based assignment

6. Teaching Tools

- [ ] PBL(Problem Based Learning)
- [ ] UR(Undergraduate Research)
- [✓] others ( )
- [ ] CBL(Case Based Learning)
- [ ] FL(Flipped Learning)
- [ ] TBL(Team Based Learning)
- [ ] DSAL(Data Science Active Learning)

7. Knowledge and ability required for taking this course

Having access to various services using the Internet in your daily life will help you understand the content of this course.
You should have a good understanding of the graphs in the data structure.
You should have the basic ability to read and understand English documents.

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance	14	10%	Deduct points per absence
midterm exam	1	30%	Learning Achievement 1, 3
final exam	1	35%	Learning Achievement 1, 3
quiz	2	20%	Per each quiz 10%
presentation			
discussion			
homework	2	20%	Problem Solving, Network Analysis Assignment
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Computer networking:A Top-Down Approach (6th Edition)	J.F.Kurose&K.W.Ross	Pearson Education	2012

10. Class system and Class shedule

In general, it facilitates an understanding of how the Internet works by progressing from the application layer to the lower layer that students are familiar with, and it also covers the Wirelee Network, which is an issue these days. Proceed with the following system.

 Chapter 1: Basic understanding of Internet
 Chapter 2: Application Layer
 Chapter 3: Transport Layer
 Chapter 4: Network Layer
 Chapter 5: Link Layer
 Chapter 6: Wireless Network

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Chap 1: Computer Networks and the Internet	K	PAUL RAJIB	Lecture	Quiz1 and mid exam	
2	Chap 2: Application Layer	K	PAUL RAJIB	Lecture	Quiz1 and mid exam	
3	Chap 2: Application Layer	K	PAUL RAJIB	Lecture	Quiz1 and mid exam	

< Class Schedule >

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
4	Chap 2: Application Layer	K	PAUL RAJIB	Lecture	Quiz1 and mid exam	
5	Chap 3: Transport Layer	K	PAUL RAJIB	Lecture	Mid term Exam	
6	Chap 3: Transport Layer	K	PAUL RAJIB	Lecture	Mid term Exam	
7	Chap 3: Transport Layer	K	PAUL RAJIB	Lecture	Mid term Exam	
8	Mid term Exam	K	PAUL RAJIB			
9	Chap 4: Networkk Layer	K	PAUL RAJIB	Lecture	Quiz2 and final exam	
10	Chap 4: Network Layer	K	PAUL RAJIB	Lecture	Quiz2 and final exam	
11	Chap 4: Network Layer	K	PAUL RAJIB	Lecture	Quiz2 and final exam	
12	Chap 5: Link Layer	K	PAUL RAJIB	Lecture	final exam	
13	Chap 5: Link Layer	K	PAUL RAJIB	Lecture	final exam	
14	Chap 6: Wireless and Mobile Networks	K	PAUL RAJIB	Lecture	final exam	
15	Chap 6: Wireless and Mobile Networks	K	PAUL RAJIB	Lecture	final exam	
16	Final Exam	K	PAUL RAJIB			

11. Other items of notification