Computer Networks

Instructor:	Songrit Kitisriworapan	**Time:**	Fri 09:00 – 12:00
Email:	songrit@npu.ac.th	**Place:**	Engineering Bld. EN1306

Course Pages:

1. https://github.com/Lecture-CPE/316

Office Hours: After class, or by appointment, or E-mail.

Main References:(recommended, not required)

- Peterson, Larry L., and Bruce S. Davie. *Computer networks: a systems approach*. Elsevier, 2012.
- Jim Kurose, Keith Ross, *Computer Networking: A Top Down Approach* , Pearson/Addison Wesley, 2016.

Objectives: This course is primarily designed for undergraduate students. Students become familiar with Data Communications and Network concepts and terminologies.

Prerequisites: -

Grading Policy: Attend-10%, HW-20%, Project-20%, Exam-20%, 30%

Assignments submission : https://elab.npu.world

Important Dates:

Midterm	11-17 Jan 2021
Project Submission	Feb 2021
Project Presentation	Feb, 2021
Final Exam	8-21 Mar 2021

Course Policy:

- Grading A, B+, B, C+, C, D+, D, F($< 50\%$)
- 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.
- Late penalty after the due date
  (a) 15 min late : late penalty is 10% of your score
  (b) 30 min late : late penalty is 33% of your score
  (c) $>$ 1 hour : 0 score, But discipline has point.

Class Policy:

- Regular attendance is essential and expected.

Academic Honesty: Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation.

Tentative Course Outline:

Week	Description
1	Course orientation
2	Overview of computer networking and the Internet
3	Electrical and Signal
4	Physical Layer
5	Digital/Analog Signal
6	Digital transmission and multiplexing
7	Data-Link Layer
8	**Midterm Exam**
9	Project presentation
10	Multiple Access
11	Network Layer
12	IP Protocol and Address
13	Routing protocol
14	Transmission Layer : TCP/UDP
15	Application Layer : HTTP/TLS/SSH/MQTT
16	**Final Exam**