

Course Syllabus

SW60–212 Data Communication and Computer Network School of Informatics, WU, THAILAND

Basic Information



Course Name

SWE60-212 Data Communication and Computer Network

· Credit

• 3(2-2-7), 2 hours for lecture and 2 hours for practices per week

· Pre-requisite

No

Grade Policy



#	Activity	Description
15	Midterm Examination	The summative assessment is to evaluate that the student can remember and understand the theory in a computer network.
15	Final Examination	The summative assessment is to evaluate that the student can apply and analyze the theory in a computer network.
10	Workshop	Students will be observed and evaluated with rubrics scores in terms of success, intention, problem-solving and knowledge discovery.
10	Workshop Test	The summative assessment in practice in a computer network.
20	Online quiz	The self quiz via google form when student complete each chapter.
9	Class Activity	Any class activity such as problem-solving in class
6	Lecture Note	Handwriting self lecture note: take photo and upload via google drive
10	Test	The individual test in class
5	Affection	DO NOT LATE
100	TOTAL	

Total score \geq 80 get A, on the other hand if less than 40 will get F

Course Description



- Introduction to Computer Network
- Data Communication
- Network Architecture
- Application Layer
- Reliable Protocol
- Basic Network Security Concepts

Lecture - 20 Hrs.



- Need to Pre-test online
 - DUE DATE June 6, 2019 11.59PM
- Active Learning
 - Before class attending
 - Self study via courseware
 - Complete the pretest online quiz (as class score)
 - Class Activities
 - Question and Discussion
 - Problem and Solution (as class score)
 - After class attending
 - Post-test online

Workshop (20 Hours)



- Network OS management with Linux (5 Hours)
 - Native Installation and Simulation with Window Linux Subsystem
 - User command: file/directory management, Text processing, File System Management.
 - Privileged command: Disk Management, User management, Process Management.
- Micro-services with Docker (5 Hours)
 - Basic Docker command
 - Basic Docker compose command
 - System Architecture design with Docker compose

Workshop (20 Hours)



- Network Design and Implementation with CISCO devices (10 Hours)
 - CISCO command with Packet Tracer: Basic command, Switch, Router
 - Hierarchical Network Implementation
 - Internal Routing Network Implement : Static Router, Dynamic Router
 - WAN implementation and it Routing Mechanism (Optional)

Lecturer



Chanankorn Jandaeng

• Ph.D. (Computer Engineering), PSU, 2012

Interested fields

- Computer Network Design/Management
- Computer and Network Security
- Information Security
- Cloud Computing and Big Data
- Internet of Things

Offices

- C3 RM259
- 075672209