



# Internetworking Standards & Technologies

Jirasak Sittigorn

Department of Computer Engineering

Faculty of Engineering

King Mongkut's Institute of Technology Ladkrabang

# Instructors & Course material

- Instructors

- Jirasak Sittigorn

- Room : 508, 708, 908, 601

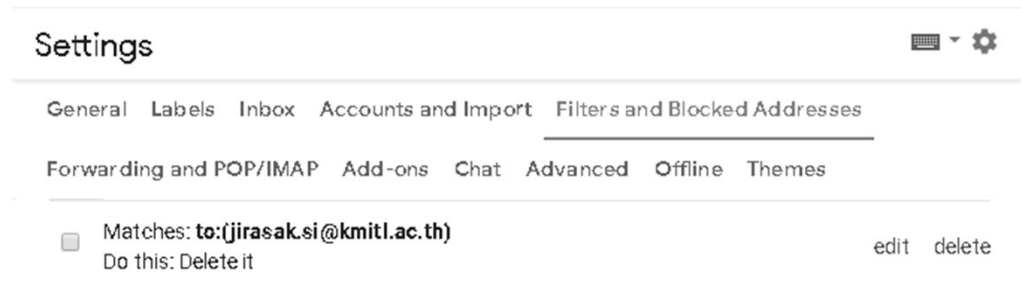
- Email : [ks.jirasa@gmail.com](mailto:ks.jirasa@gmail.com)

- Course material

- CCNAv7

- <https://netacad.com>

- Class code (Google classroom)



# Course Description

- TCP/IP Networks; TCP/IP Layers; Internet Address; Cables; Cabling System; Network Address Planning; Domain Name System; Internet Protocol; Address Resolution Protocol; Internet Control Message Protocol; Dynamic Host Configuration Protocol; Transmission Control Protocol; User Datagram Protocol; Routing; Routing Protocol: RIP, OSPF, BGP; Router; Router Configuration; Router Verification and Troubleshoot.

# Grading Policy

รายละเอียด	01076027 Internetworking Standards and Technologies 4(3-3-8) 01076040 Internetworking Standards and Technologies 3(3-0-6) 01076041 Internetworking Standards and Technologies in Practice 1(0-3-2)
แบบฝึกหัด Online & Cisco Aspire	10%
กิจกรรมในชั้นเรียน	5%
งานที่มอบหมาย	15%
Lab Attendance	5%
Lab Submission	10%
Lab Final Exam	15%
สอบปลายภาค	40%

# Course Syllabus

No	Lecture	Lab
1	Network Overview	Cabling & Lab Diagram
2	Basic Router Configuration	Basic Router Configuration
3	Static Routing & Dynamic Routing Protocol	IP Address, Interface and Static Route
4	Distance Vector Routing Protocols & RIP	Static Route and RIP
5	RIPv2 + ACL	RIPv1 & RIPv2 & ACL
6	OSPF + DHCP	OSPF & ACL & DHCP
7, 8	Assignment Progress	
9	Basic Switch Concept & Configuration	Basic Switch Configuration
10	SPT	SPT
11	VLANs & InterVLAN	VLANs
12	VTP & Link Aggregation	InterVLAN
13	EIGRP + NAT	EIGRP + NAT
14	IPv6 & Routing	IPv6 & Routing
15, 16	Assignment Presentation	Lab Exam