



Internetworking Standards & Technologies

Jirasak Sittigorn

Department of Computer Engineering
Faculty of Engineering

King Mongkut's Institute of Technology Ladkrabang

Cisco | Networking Academy®
Mind Wide Open™

Instructors & Course material

- Instructors

- Jirasak Sittigorn

- Room : 508, 708, 908, 601

- Email : ksjirasa@gmail.com

ตัดต่อหน้าจอ

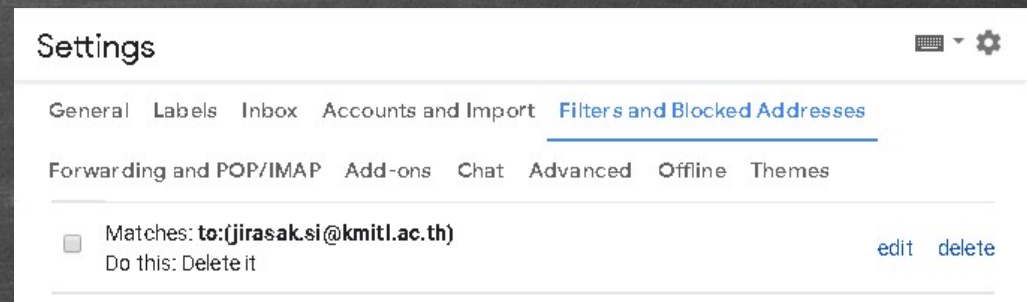
ส่วนงาน อำนวยการ

- Course material

- CCNA v7

- <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 IST * | 01076040 IST | 01076041 IST Lab |
|--------------------|-------------------|-----------------|---------------------|
| แบบฝึกหัด Online | 10% | 15% | - |
| กิจกรรมในชั้นเรียน | 5% | 10% | - |
| งานที่มอบหมาย | 15% | 15% | |
| Lab Attendance | 5% | - | 15% |
| Lab Submission | 10% | - | 30% |
| Lab Final Exam | 15% | - | 40% |
| สอบปลายภาค | 40% | 60% | - |

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 <i>סיום-המסלול</i> | |
| 9 | Basic Switch Concept & Configuration | Basic Switch Configuration |
| 10 | SPT + VLAN | VLANs |
| 11 | VLANs & InterVLAN | - |
| 12 | VTP & Link Aggregation (<i>mux link</i>) | InterVLAN |
| 13 | EIGRP + NAT | EIGRP + NAT |
| 14 | IPv6 & Routing | IPv6 & Routing |
| 15, 16 | Assignment Presentation <i>network design & config</i> | Lab Exam |