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Data Communication and Internetworking (TCP/IP)

Training Objective

To give the skill in both theory and practical of data communication and internetworking concept.

The student will have an opportunity to study how TCP/IP work and how to operate the networking equipment (router).

Training Topics

- 1 Introduction to data communication and Networking concept
- 2 Physical Layer classification
- 3 Introduction to Local Area Network
- 4 Media Access Control (MAC) classification
- 5 Bridge, Switch and router
- 6 Principle of ATM and Frame relay
- 7 Spanning Tree protocol
- 8 Introduction to Internet Protocol
- 9 IP Addressing (classification)
- 10 Special IP address (direct broadcaste, limited broadcaste, loopback address)
- 11 Address Resolution Protocol (ARP) and Reverse Address Resolution Protocol (RARP)
- 12 Subneting and subnet assignment
- 13 Routing Protocol (IGP and EGP)
- 14 Routing protocol comparison
- 15 Serial encapsulation (PPP, HDLC, Frame Relay)
- 16 Access Control list
- 17 Principle of TCP protocol

Total training time 7.5 days (lecture 4.5, lab 3)