

CEN 448: Security & Internet protocols

- Credit Hours (Lectures, Lab, Tutorial): 3 (3 + 0 + 1).
- Prerequisites: CEN 445.

Courses content: Internet protocols: IP, ARP, RARP, BOOTAP, Error reporting mechanism (ICMP), OSPF routing, BGP, CDIR, IPv6; TCP and UDP; Addressing schemes; Network security: polices, responsibilities, access control, encryption and privacy, public key encryption, DES, RSA, packet filtering and firewall concepts, digital signature; Application Layer Protocols: WWW protocols, DNS, SMTP, the socket application program interface API, client server interaction, Simple Network management SNMP, Multimedia Protocols & standards MPEG , JPEG.