

**CEN 449: Broadband & High speed Networks**

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

**Courses content:** MAN networks and standards: Fiber distributed data Interface (FDDI) architecture and protocols, Giga Ethernet architecture protocols and standards, DQDB, ATM; High-speed WAN: introduction to broadband Integrated service digital networks (B-ISDN) concepts, architecture, standards and services, ATM network protocols, services , layering and architecture, SONET/SDH layers , configuration , and frames, Frame relay operation, layers and frames; Broadband Wireless networks: wireless ATM, IEEE 802.11, HIPERLAN.