

Réseaux & Services

Last Mile Wired Networks

IDENTIFICATION

CODE : TC-4-S2-EC-BLF
ECTS : 1.0

HOURS

Lectures : 4.0 h
Seminars : 0.0 h
Laboratory : 16.0 h
Project : 0.0 h
Teacher-student
contact : 20.0 h
Personal work : 2.0 h
Total : 22.0 h

ASSESSMENT METHOD

TEACHING AIDS

TEACHING LANGUAGE

French

CONTACT

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AIMS

This EC is part of the teaching unit Advanced Network (TC-4-S2-RA) and contributes to the following skills:

C6 Design, implement, develop, deploy networks and protocols
Capacity: Sizing a corporate telephone network from a set of specifications
Capacity: Configure ADSL access network equipment: home router, DSLAM, BAS
Knowledge: Local Loop: Distribution Network, Subscriber Connection Unit
Knowledge: Switching Function, Switch Hierarchy
Knowledge: SS7 Signage: Architecture, Protocols, Call Establishment
Knowledge: Transmission Function, SDH Multiplexing
Knowledge: Business telephony: PABX, traffic load, sizing
Knowledge: xDSL Technology Generations
Knowledge: ADSL: access / collection architecture, protocol layers involved: PPP, ATM, Ethernet.
Knowledge: riple play, QoS concept
Knowledge: RTC, local loop, PABX, ADSL, DSLAM

A1 Analyze a real or virtual system (or problem)
Knowledge: Historical Perspective on the Evolution of the RTC and ADSL Access / Collection Technologies
Knowledge: xDSL Technology Generations
Knowledge: Profitability, Convergence

CONTENT

- 1) PSTN : local loop and core network
- 2) PABX
- 3) xdsl technoogy, access and aggregation network

PRE-REQUISITE

Fundamentals of Networking and IP networks (3TC-NET)

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