

IDENTIFICATION

Course code : E2CP3I5
ECTS : 2

DURATION

Lectures : 8
Tutorial classes : 10
Labs : 12
Total : 30

Project :
Personnal work :

ASSESSMENT

2 MCQs (30 minutes each)

TEACHING MATERIALS

Course slides + tutorial booklets + practical work booklets available on Moodle

LANGUAGE

English

CONTACT

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UE : INFORMATIQUE

COURSE : Introduction to Networks

SCOPE OF THE COURSE

OBJECTIVES

At the end of this course, the student will be able to :

- understand the information transmission protocols within a local network and on the Internet;
- install and configure the equipment required to build a minimal network (LANs interconnected by routers).

COMPETENCE AND SKILLS

- Analyse network traffic and associated protocols.
- Administer a network (switch / router).

PROGRAM

- To know the OSI and IETF models and encapsulation
- To know the Ethernet protocol (VLANs and STP are not part of the syllabus)
- To know IPv4 addresses : addresses, subnet mask, routing table, static routing
- To know the transport-layer protocols (TCP/UDP)
- To analyze network frames (Wireshark)
- To administer an active device (switch, router) and set up an initial network (interconnected LANs)

BIBLIOGRAPHY

Online Course : Cisco CCNA

REQUIREMENTS

Operating Systems