

# UE Communication systems

 **ECTS**  
3 credits

 **Component**  
UFR PhITEM  
(physique,  
ingénierie, terre,  
environnement,  
mécanique)

 **Semester**  
Printemps

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX8ECAE

## Presentation

### Description

OSI model, Ethernet networks, TCP/IP, Network Address Translation

#### Course objectives:

To be able to configure and manage a basic Local Area Network

#### Outline:

- Topology, OSI model
- Ethernet Networks, CSMA/CD
- IP addressing and routing
- ARP - ICMP - Frame analysis
- TCP/UDP - Services - Network Address Translation

Labs : Building a simple LAN with Linux.

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## Course parts

UE Communication systems - CM/TD	Lectures (CM) & Teaching Unit (UE)	18h
UE Communication systems - TP	Practical work (TP)	8h

## Useful info

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### Campus

> Grenoble - Scientific Polygon