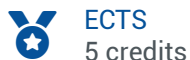


# COMMUNICATIONS NUMERIQUES SUR CANAUX SELECTIFS



## In brief

- **plugin.odf-inp:PLUGINS\_ODF\_COURSE\_NBHOURS\_TXT:** 17 lectures, 2 sessions of exercises, 8 sessions of practical work
- **Code:** N7EN02

## Presentation

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### Objectives

To be able to define a more complete channel modelization, compared to the one studied during the first year teaching unit "Bases on Telecommunications".

To be able to implement one of the following techniques to transmit through a time and frequency selective channel:

- Equalization,
- Orthogonal Frequency Division Multiplexing (OFDM),
- Code Division Multiple Access (CDMA).

### Description

This teaching unit presents the telecommunication network physical layer solutions allowing to communicate on time varying and frequency selective channels: equalization, OFDM and CDMA. These solutions are currently used in several telecommunication

systems, such as, for example, 3G, 4G, WiFi, ADSL and Digital Terrestrial TV. They rely on channel models described in the first teaching module.

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## Pre-requisites

Bases on telecommunications

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## List of courses

	Nature	CM	TD	TP	Crédits
Modélisation de Canal	UE				
Egalisation de Canal	UE				
OFDM/CDMA	UE				