

# EN321 : Embedded system for telecommunications

## Shared by UV(s) :

SEE9-A Mise en oeuvre de systèmes embarqués

page 0

## ECTS credits :

2.00

## Evaluation :

S1: Proj(Sout) x1

## Number of hours :

Combined lecture and tutorial classes : 28.00

## Teacher(s) :

FERRE Guillaume  
LEROUX Camille

## Title :

Embedded system for telecommunications

## Abstract :

This module focus on the physical layer of communication systems. The lecture and the project are based on the DVB-T telecommunication standard.

Module objectives:

- to give an overview of functions usually required in a modern telecommunication system
- to highlight the design constraints when implementing the physical layer of a telecommunication standard
- to raise awareness on the difficulty of reading a telecommunication standard documentation

The first part of the lecture presents the main functions used in the physical layer of a telecommunication system (high spectral efficiency modulation, error correction codes, interleaving, scrambling, pilots, etc).