

EN321 : Embedded system for telecommunications

Shared by UV(s) :

SEE9-A Implementation of embedded systems

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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).