

UE Analog and digital transmission

 **ECTS**
3 credits

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

 **Semester**
Automne

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX7ECAAF

Presentation

Description

Radio communications surround us and are nowadays at the core of many modern electronic applications. The syllabus of this course starts with the basics of analogical transmissions and goes up to the most advanced digital modulation techniques.

Objectives

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Master the basic concepts of radio modulation.

Content:

1. Amplitude modulations, angular modulations (phase and frequency).
2. Common modulation demodulation architectures.
3. Software defined radio.

Course parts

UE Analog and digital transmissions - TD	Tutorials (TD)	7h
UE Analog and digital transmissions - CM/TD	Lectures (CM) & Teaching Unit (UE)	11h
UE Analog and digital transmissions - TP	Practical work (TP)	12h

Useful info

Campus

› [Grenoble - Scientific Polygon](#)