

# UE Analog electronics

 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:** PAX7ECAJ

## Presentation

### Description

To know the basic concepts and basic assemblies of analog electronics.

Be familiar with the equivalent models of transistors in small signals.

1. General information on electrical circuits
2. Junction diode
3. Field effect transistor
4. Differential amplifier
5. Operational amplifier

### Course parts

UE Analog electronics - CM	Lectures (CM)	8h
UE Analog electronics - CM/TD	Lectures (CM) & Teaching Unit (UE)	12h
UE Analog electronics - TP	Practical work (TP)	8h

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## Recommended prerequisites

Ohm's law in direct current and alternating current.

Passive components: resistor, capacitor, inductor.

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## Syllabus

- a. Floyd T., Électronique : Composants et systèmes d'applications
- b. Gendreau B., Électrocinétique
- c. Pichon L., Base de l'électronique analogique

## Useful info

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### Campus

- › Grenoble - Scientific Polygon