


# UE Introduction to RF electronic design

 ECTS  
3 credits

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

 Semester  
Printemps

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX8ECAF

## Presentation

### Description

Design using ADS Keysight software, and test using network analyzers, RF circuits: filters, power dividers, couplers and amplifiers.

#### Objectives:

1. Know how to master a circuit and electromagnetic simulation tool in order to design RF circuits.
2. Understand the operation principle of elementary passive RF circuits: filters, couplers, power dividers.
3. Understand the operation principle of an elementary active RF circuit: low noise amplifier (LNA).

### Course parts

UE Introduction to RF electronic design - TD	Tutorials (TD)	2h
UE Introduction to RF electronic design - CM/TD	Lectures (CM) & Teaching Unit (UE)	2h
UE Introduction to RF electronic design - TP	Practical work (TP)	20h

### Recommended prerequisites

RF course from semester 7

# Useful info

---

## Campus

› Grenoble - Scientific Polygon