

# UE Geophysical observation of the Earth

 ECTS  
6 credits

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

 Semester  
Automne

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX7SRAL

## Presentation

### Description

The objective of the course is to provide students, from the beginning of the Master's degree, with tools to identify and retrieve geophysical data from international data distribution systems, and to apply some simple processing on the data. The 3 types of data are a) seismological data, and their application to earthquake location; b) GNSS (Global Navigation Satellite System) data; c) Earth's magnetic field data, with an application to the reconstruction of the magnetic field at the surface of the Earth's core. The practical work on applications forms the core of the module, and is prepared through introductory courses in each of the three areas. Requirements: Basic knowledge on the Solid Earth and/or Waves and potential fields. Language: English

### Course parts

|   |                                    |     |
|---|------------------------------------|-----|
| UE Geophysical observation of the Earth - TD    | Tutorials (TD)                     | 21h |
| UE Geophysical observation of the Earth - CM/TD | Lectures (CM) & Teaching Unit (UE) | 27h |

## Useful info



---

## Campus

› Grenoble - University campus