

UE Advanced gravitational risk

 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:** PAX9RSAA

Presentation

Description

The objective of this course is to provide the fundamental notions of the study of landslides, which can have very diverse characteristics (speeds, sizes, mechanisms, geology) and forcings (precipitations, earthquakes, anthropic actions, deglaciation, erosion...). An important part of the course consists in illustrating the use of observation and characterisation methods (geodesy, remote sensing, seismology, geophysics, geomorphology, cosmogenic dating) of landslide activity, as well as the modelling of landslide propagation, and then to use them in the form of mini-projects.

This course is therefore largely based on the practice of tools and the study of active and paleo landslide cases, including visits on different sites.

Course parts

CMTD	Lectures (CM) & Teaching Unit (UE)	18h
TD	Tutorials (TD)	3h
TP	Practical work (TP)	15h
TERRAIN	Terrain	6h

Recommended prerequisites

Basic knowledges in Geology, Seismology, Geodesy, Remote-sensing, Geomechanics

Period : Semester 9

Additional information

Responsables du module: Pascal Lacroix et Mathieu Causse

Useful info

Place

› Grenoble

Campus

› Grenoble - University campus