

UE Deep Earth Geodynamics

 ECTS
6 credits

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

 Semester
Printemps

- > **Teaching language(s):** French, English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX8SRAE

Presentation

Description

This course focuses on the dynamics of the deep Earth from a deterministic point of view, based on elementary principles of physics. Topics covered include the rheological behavior of the mantle and lithosphere, mantle convection and plate tectonics, core dynamics and the generation of the Earth's magnetic field. For each of these topics, the problems are approached in different ways: order-of-magnitude analyses, analytical resolutions, discussion of the informations provided by observations, contributions from numerical simulations and experimental studies.

Teaching language: english

Course parts

UE Deep Earth Geodynamics CM/TD	Lectures (CM) & Teaching Unit (UE)	39h
UE Deep Earth Geodynamics - TP	Practical work (TP)	3h

Useful info



Campus

› Grenoble - University campus