

UE Transfer in Porous Media





Semester Automne

- > Teaching language(s): French
- > Open to exchange students: Yes
- Code d'export Apogée: PAX9HMAA

Presentation

Description

This course deals with the simulation of (a) groundwater flows, (b) contamination plumes and (c) heat fluxes, in saturated and unsaturated porous media, using numerical models (Feflow and Hydrus). The associated keywords are direct and inverse modelling, groundwater, contamination, geothermal energy. The practical and research implications are the modelling of infiltration, groundwater recharge, flow fields and contaminant fate, the design of remediation systems, heat pumps (low and high energy, i.e. subsurface and deep) and water production systems.

Prerequisite:

- * M1 STE-UGA (or equivalent) hydrological or hydrogeological courses.
- * M1 STE-UGA (or equivalent) hydrological or hydrogeological courses.

Language

The course is taught in French. Supplements in English are provided if necessary for non-French speaking students.

Course parts

UE Transferts en milieu poreux-CM/TD

Lectures (CM) & Teaching Unit (UE)

36h

UE Transferts en milieu poreux-TERRAIN

Terrain

6h





Useful info

Campus

> Grenoble - University campus

