

UE Mechanics of porous media



Level
Baccalaureate
+5



ECTS
3 credits



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

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX9CEAL

Presentation

Description

This course concerns the modeling of physical phenomena occurring in porous media using an upscaling approach. Theoretical developments are illustrated by numerical examples and experimental results :

- (i) General issues about porous media.
- (ii) Modeling of porous media by using upscaling approaches,
- (iii) Fluid flow in porous media, (iv) Diffusion/ dispersion in saturated porous media,
- (v) hydro-mechanical behaviour of porous media.

Course parts

UE Mechanics of porous media - CM

Lectures (CM)

22h

Period : Semester 9

Useful info



Campus

› Grenoble - University campus