

# 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



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## Campus

> Grenoble - University campus