

UE Advanced rock mechanics



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:** PAX9CEAI

Presentation

Description

Physical properties of rock (origin, types of rock, porosity, anisotropy, etc.)

Mechanical behaviour (experimental observations)

Constitutive modeling (general principles, anisotropic elasticity, elastoplasticity)

Failure, rupture, damage, localized deformation

Hydromechanics of rock, poroelasticity

Wave propagation in rock

Discontinuities, joints, interfaces

Course parts

UE Advanced rock mechanics - CM

Lectures (CM)

18h

Period : Semester 9

Useful info

Campus

> [Grenoble - University campus](#)