


UE Quantitative Image Analysis for Mechanics

 ECTS
3 credits

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

 Semester
Automne

- > **Teaching language(s):** English
- > **Open to exchange students:** No
- > **Code d'export Apogée:** PAX9CEAS

Presentation

Description

In this class we teach the different operations that can be done on 3D tomographic images in order to handle noise and measure geometrical and topological quantities of the material's microstructure.

We also teach how we can measure kinematic fields from a set of images using digital volume correlation. Finally examples of Finite Element simulations using information from the images are proposed.

Course parts

UE Quantitative Image Analysis for Mechanics - CM	Lectures (CM)	10h
UE Quantitative Image Analysis for Mechanics - TP	Practical work (TP)	10h

Period : Semester 9

Useful info



Campus

➤ [Grenoble - University campus](#)