

UE Numerical methods in solid and fluid mechanics 1

+4

Level Baccalaureate

ECTS 3 credits

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

Semester Automne

- > Teaching language(s): English
- > Open to exchange students: Yes
- > Code d'export Apogée: PAX7MEAE

Presentation

Description

This first part of the course is dedicated on the theory and implementation of the finite element method for solving boundary value problems in solid mechanics: Overview of the finite element method in solid mechanics, the Finite Element Method for Static Linear Elasticity, The finite element method for time dependent and dynamic problems.

Course parts

UE Numerical methods in solid and fluid mechanics 1 - TP

UE Numerical methods in solid and fluid mechanics 1 -CMTD

Period : Semester 7

Useful info

Practical work (TP) 12h Lectures (CM) & Teaching Unit (UE) 14h



Place

> Grenoble

Campus

> Grenoble - University campus