

UE Numerical methods in solid and fluid mechanics 1



Level
Baccalaureate
+4



ECTS
3 credits



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

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|--|------------------------------------|-----|
| UE Numerical methods in solid and fluid mechanics 1 - TP | Practical work (TP) | 12h |
| UE Numerical methods in solid and fluid mechanics 1 - CMTD | Lectures (CM) & Teaching Unit (UE) | 14h |

Period : Semester 7

Useful info



Place

> Grenoble

Campus

> Grenoble - University campus