

# 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

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



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## Place

› Grenoble

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## Campus

› Grenoble - University campus