

IDENTIFICATION

Course code : E5BE9MS1
ECTS : 2

DURATION

Lectures : 5
Tutorial classes : 15
Labs : 0
Total : 20

Project :
Personnal work :

ASSESSMENT

Project grade

TEACHING MATERIALS

Handouts and PowerPoint presentations

LANGUAGE

English

CONTACT

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Modifié le : 3 août 2026

UE : Modélisation

COURSE : Modelling

SCOPE OF THE COURSE

OBJECTIVES

The aim is to introduce the main numerical methods used in computational software.

COMPETENCE AND SKILLS

Be able to identify transport equations. Be able to discretise and solve equations.

PROGRAM

Transport equations and their resolution. The finite difference method. The finite volume method. The finite element method. Introduction to CFD.

BIBLIOGRAPHY

Numerical Analysis and Optimization
Grégoire Allaire

REQUIREMENTS

— Scientific Computing CPI 1