



# Numerical Methods

## Chapter 1: INTRODUCTION

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# On the program today

- **Get to know each other.**
- **Presentation of the objectives, the course plan, the assessment methods,**
- **Informal presentation of the field of numerical methods**

# PART ONE

## Course Plan and other practical information

# Course tone

**Semster:**03

**Title of the subject:**numerical methods

**Credits:** 4

**Coefficients:** 2

**Teaching objectives:**

The aim of this module is to master calculation techniques on the machine and learn the foundations and numerical techniques for solving some mathematical problems.

# Recommended prior knowledge

- Basic Mathematics
- linear Algebra
- Programmation tools

# Content of the subject

**chapter 1:**Finite-precision arithmetic

**chapter 2:**matrix calculation

**chapter 3:**Direct methods for solving linear systems

**chapter 4:**Iterative methods for solving linear systems

**chapter 5:**Calculation of eigenvalues and eigenvectors

let's start