# COURSE DETAIL

## NUMERICAL METHODS

**Country**
Spain

**Host Institution**
Carlos III University of Madrid

**Program(s)**
Carlos III University of Madrid

**UCEAP Course Level**
Upper Division

**UCEAP Subject Area(s)**
Mathematics

**UCEAP Course Number**
114

**UCEAP Course Suffix**
D

**UCEAP Official Title**
NUMERICAL METHODS

**UCEAP Transcript Title**
NUMERICAL METHODS

**UCEAP Quarter Units**
5.00

**UCEAP Semester Units**

3.30

**Course Description**

This course offers a study of Numerical Methods (NM) to calculate approximate solutions of mathematical models. Topics include: floating point, errors, stability, and algorithms; solution of linear systems of equations; numerical solution of equations and systems of nonlinear equations; interpolation and approximation of functions; least squares problems; numerical optimization; numerical integration; numerical differentiation; fast Fourier transform.

**Language(s) of Instruction**
English

**Host Institution Course Number**
16493

**Host Institution Course Title**
MÉTODOS NUMÉRICOS

**Host Institution Course Details**
https://aplicaciones.uc3m.es/cpa/generaFicha?&est=350&asig=16493&idioma=2

**Host Institution Campus**
Leganés

**Host Institution Faculty**
Escuela Politécnica Superior

**Host Institution Degree**
Grado en Ciencia e Ingeniería de Datos

**Host Institution Department**
Departamento de Matemáticas

**Course Last Reviewed**

2023-2024

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