# **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

UCEAP Official Title NUMERICAL METHODS

**UCEAP Transcript Title** NUMERICAL METHODS

**UCEAP Quarter Units** 5.00

**UCEAP Semester Units** 

#### **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 NUMERICAL METHODS

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

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