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
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

Print