COURSE DETAIL

NUMERICAL METHODS
Country Italy
Host Institution University of Bologna
Program(s) University of Bologna
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 170
UCEAP Course Suffix
UCEAP Official Title NUMERICAL METHODS
UCEAP Transcript Title NUMERICAL METHODS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course is part of the Laurea Magistrale degree program and is intended for advanced level students. Enrolment is by permission of the instructor. At the end of the course, students know basic numerical methods for evolutive ordinary and partial differential problems, together with their main theoretical and computational properties. In particular, students are able to analyze the properties of numerical methods; constructively examine corresponding computational results; advance their scientific computing education in higher level courses; and employ the acquired numerical skills in a variety of application areas. The two main topics covered are: 1) numerical solution of Ordinary Differential Equations (ODEs): Initial Value Problems; and 2) numerical solution of ODEs: Boundary Value Problems.

Language(s) of Instruction
English

Host Institution Course Number
35433

Host Institution Course Title
NUMERICAL METHODS

Host Institution Course Details
https://www.unibo.it/en/teaching/course-unit-catalogue/course-unit/2023/469921

Host Institution Campus
BOLOGNA

Host Institution Faculty

Host Institution Degree
LM in MATHEMATICS

Host Institution Department
Mathematics

Course Last Reviewed
2023-2024

Print