

Direzione Innovazione e Internazionalizzazione

> ID VP080_MAT

Visiting Professor Program Academic Year 2024/2025

TEACHING COMMITMENT: 12 hours

COURSE TITLE Numerical Methods for Applications

TEACHING PERIOD 2nd term

SCIENTIFIC AREA Numerical Analysis

LANGUAGE USED TO TEACH English

COURSE SUMMARY

The course aims to provide advanced competences in Numerical Mathematics, in particular in the area of scattered data approximation and its applications and differential equations using radial basis functions (RBFs) with competences related to the implementation of the studied numerical methods. The ability in applying knowledge is encouraged by comparisons between theory and numerical results.

LEARNING OBJECTIVES

Learning objectives are to enable students to manage numerical mathematics topics for scattered data approximation and solution of differential equations by advanced RBF methods, implement efficient numerical algorithms and solve science and engineering problems.

VISITING PROFESSOR PROFILE

The Visiting Professor profile must be an expert in the study of radial basis function and partition of unity methods and their applications in the solution of partial differential equations.

CONTACT REFERENT

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