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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