Visiting Professor Program
Academic year 2022/2023

TEACHING COMMITMENT: 14 hours

COURSE TITLE
Mathematics for Business and Finance

TEACHING PERIOD
1st term

SCIENTIFIC AREA
Applied Mathematics

LANGUAGE USED TO TEACH
English

COURSE SUMMARY
MATHEMATICS
Functions of one variable.
Limits and continuity.
Differential calculus and applications.
Notion of derivative and its geometrical meaning, higher-order derivatives, rules of derivation.
Derivatives of elementary functions, of inverse functions and composite functions. Theorems of differential calculus.
FINANCIAL MATHEMATICS
Notions of linear algebra.
Vectors, matrices and operations. Functions of two variables.
Economic and business applications.

LEARNING OBJECTIVES
Through an intuitive and direct explanation of concepts and mathematical tools, the course allows students to acquire basic knowledge for approaching the study of main economic and business problems. In particular, at the end of the course, the student is expected to be capable of:
- Knowing the techniques and the basic mathematical tools commonly used in the solution of problems of economic and financial nature;
- Using such techniques and tools to formalize and solve problems;
- Being able to communicate the results obtained using a clear and appropriate mathematical notation and language.

TUTORSHIP ACTIVITIES
Classes with Teaching Assistants will be provided, approximately one class after two lectures.

LAB ACTIVITIES
N/A

OTHER ACTIVITIES BESIDES THE COURSE
Seminar on the research field of the VP (if in line with the research topics of the Phd students) will be provided to PhD students.

VISITING PROFESSOR PROFILE
Large experience in teaching Applied Mathematics in English to big groups. Teaching organisation experience required (organising classes for Class Teachers, schedule of classes, managing exams). Good record of publications preferably on Mathematics for Managers.

CONTACT PERSON AT THE DEPARTMENT
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