

“Mathematics: Refresher Course”

Graduate School of Economics and Management (GSEM)

International Master in Economics and Finance (IMEF)

Science and Management of Climate Change (SMCC)

Syllabus

Academic Year: 2011/12

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Objectives

This course is a refresher for those students who need to review their basics in linear algebra and precalculus for several variables. Note that the material covered during this course is assumed to be known by all graduate students in Economics or Management.

Lectures shall be based on practice: many examples and exercises shall be proposed and solved during the classes.

Content of the course

1. Linear Algebra: matrix and vector algebra, determinants, linear independence, basics of vector spaces, systems of linear equations. (Chapters 7-11, 26-28 of C. P. Simon, L. Blume (1994)).
2. Calculus: basics of topology in finite spaces, functions of several variables. (Chapters 12-13 of C. P. Simon, L. Blume (1994)).

Exam

No exam is scheduled.