Teaching guide

IDENTIFICATION DETAILS

Degree:	Business Administration and Management
Field of Knowledge:	Social and Legal Science
Faculty/School:	Law, Business and Governance
Course:	MATHEMATICS APPLIED TO BUSINESS
Type:	Compulsory
ECTS credits:	6
Year:	1
Code:	7112
Teaching period:	First semester
Area:	Company
Module:	Business management and human development tools
Teaching type:	Classroom-based
Language:	Spanish
Total number of student study hours:	150

SUBJECT DESCRIPTION

Esta asignatura pretende que el alumno descubra la belleza de las matemáticas y su utilidad como lenguaje que explica el comportamiento de las ciencias sociales, las artes y la naturaleza. En particular nos centraremos en la economía y el comercio y profundizaremos en cómo interaccionan las matemáticas con la actividad humana y como herramienta para la toma de decisiones buscando relaciones, lenguajes y métodos para ordenar y armonizar, desde niveles más abstractos, los resultados y lenguajes y sacar nuevas formas de relación entre los objetos ya existentes.
Para ello el alumno debe conocer el lenguaje matemático, debe ser capaz de discernir qué información es relevante y pasarla a notación matemática, sistematizar, modelizar, analizar e interpretar los resultados, para

posteriormente buscar la solución óptima utilizando herramientas de simulación.
El quehacer matemático es simultáneamente descubrimiento y creación. La verdad en matemáticas tiene tres caras:
1) la propia de las relaciones entre objetos (necesidad)
2) la de las expresiones del quehacer matemático, histórico y falible
3) la verdad lógica - validez o consistencia - exigida en las teorías maduras.

SKILLS

Basic Skills

Students must have demonstrated knowledge and understanding in an area of study that is founded on general secondary education. Moreover, the area of study is typically at a level that includes certain aspects implying knowledge at the forefront of its field of study, albeit supported by advanced textbooks

Students must be able to apply their knowledge to their work or vocation in a professional manner and possess skills that can typically be demonstrated by coming up with and sustaining arguments and solving problems within their field of study

Students must have the ability to gather and interpret relevant data (usually within their field of study) in order to make judgments that include reflections on pertinent social, scientific or ethical issues

Students must be able to convey information, ideas, problems and solutions to both an expert and non-expert audience

Students must have developed the learning skills needed to undertake further study with a high degree of independence

General Skills

To have developed the necessary skills to ensure problems are solved and goals are reached.

To seek, find and analyse diverse information from various sources.

To be able to apply relevant IT knowledge to the field of study.

To enjoy a creative and entrepreneurial spirit.

Specific skills

To develop criteria for problem-solving and decision-making both professionally and personally.

To be able to read, analyse and easily interpret graphs, tables and texts.

To be able to manage the quantitative and computer tools that aid decision-making.

To be able to put knowledge into practice.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
60 hours	90 hours