

27536 - Decision-making systems

Información del Plan Docente

Academic Year	2018/19
Subject	27536 - Decision-making systems
Faculty / School	109 - Facultad de Economía y Empresa
Degree	449 - Degree in Finance and Accounting
ECTS	5.0
Year	4
Semester	First semester
Subject Type	Optional
Module	---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, practice sessions, autonomous work, study and case studies.

As the orientation of course is mainly practical, the contents will be presented in the computer room starting with the resolution of small decision problems. In the final sessions of the course, more complex situations will be handled. In this way, we look forward to develop the attitudes (abilities, habits and qualities) when coping with decision making in complex situations.

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4.2.Learning tasks

The course includes the following learning tasks:

	Contact hours	Autonomous work	Overall workload
Lectures	15	15	30
Practice sessions	25	48	73
Case Studies (practice)	6	12	18
Exams	4		4
TOTAL	50	75	125

Expositive sessions will be mixed with the resolution of problems, and in the final part of the course, the sessions will be completely practical.

4.3.Syllabus

The course will address the following topics:

Section I: INTRODUCTION

- Topic 1. Introduction to Decisional Systems
 - o 1.1 Decision Problems and Processes
 - o 1.2 Components of a Decisional System
 - o 1.3 Computer tools in Business Management

Section II: BUSINESS DECISION MAKING

- Topic 2. Decision Making. Optimisation
 - o 2.1 Introduction to Decision Making.
 - o 2.2 Optimisation Problems. Modelling and resolution
 - o 2.3 Optimisation Software for Decision Making
 - o 2.4 Applications in Finance and Accounting
- Topic 3. Decision Making. Simulation
 - o 3.1 Introduction to Simulation
 - o 3.2 Generation of Random Numbers and Variables
 - o 3.3 Simulation Software for Decision Making
 - o 3.4 Applications in Finance and Accounting

Section III: DATABASES

- Topic 4. Databases Management

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- o 4.1 Introduction to Databases
- o 4.2 Relational Database Model
- o 4.3 Design of Tables and Queries
- o 4.4 Database Management Software: Microsoft Access

Section IV: CASE STUDIES

4.4.Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course, will be provided on the first day of class or please refer to the Faculty of Economics and Business website (<https://econz.unizar.es/>)

4.5.Bibliography and recommended resources