

27536 - Decision-making systems

Información del Plan Docente

Academic Year	2016/17
Academic center	109 - Facultad de Economía y Empresa
Degree	449 - Degree in Finance and Accounting
ECTS	5.0
Course	4
Period	First semester
Subject Type	Optional
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

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.

5.2. Learning activities

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

completely practical.

5.3.Program

PART I: INTRODUCTION

Lesson 1. Introduction to Decisional Systems

- 1.1 Decision Problems and Processes
- 1.2 Components of a Decisional System
- 1.3 Computer tools in Business Management

PART II: BUSINESS DECISION MAKING

Lesson 2. Decision Making. Optimisation

- 2.1 Introduction to Decision Making.
- 2.2 Optimisation Problems. Modelling and resolution
- 2.3 Optimisation Software for Decision Making
- 2.4 Applications in Finance and Accounting

Lesson 3. Decision Making. Simulation

- 3.1 Introduction to Simulation
- 3.2 Generation of Random Numbers and Variables
- 3.3 Simulation Software for Decision Making
- 3.4 Applications in Finance and Accounting

PART III: DATABASES

Lesson 4. Databases Management

- 4.1 Introduction to Databases
- 4.2 Relational Database Model
- 4.3 Design of Tables and Queries

27536 - Decision-making systems

4.4 Database Management Software: Microsoft Access

PART IV: CASE STUDIES

5.4.Planning and scheduling

The calendar will be presented to students once the course starts.

5.5.Bibliography and recommended resources

Updated bibliography is available through the website of the library: <http://psfunizar7.unizar.es/br13/eBuscar.php?tipo=a>