

# **ECTS - Instituto Superior de Contabilidade e Administração do Porto**

## **Degree: International Mobility Programmes**

### **Course: Simulação e Modelos de Decisão**

**Academic Year: 2014/2015**

**Academic year: 1**

**Number of Credits (ECTS): 6.0**

**Term: Summer Semester**

**Attendance: Mandatory**

**Course Responsible Teacher: Doutora Ana Paula Lopes**

#### **Objectives:**

Learning outcomes of the curricular unit:

1. To provide the students with the skills that are needed to succeed in the field of Logistics.
2. To guide the students in the learning process using an intuitive approach and illustrating the various topics with one or more relevant application examples.
3. To encourage the students to use computational tools for solving some of the exercises.

#### **Syllabus:**

DECISION MAKING  
SIMULATION  
MONTE CARLO SIMULATION  
SIMULATION OF BUSINESS PROCESSES WITH ARENA

#### **Objectives:**

Teaching methodologies (including evaluation): The theoretical and practical classes allow the students to be encouraged to learn by connecting theoretical results to a real context. Slides, based on the adopted literature, are the main source used to teach the several topics and are supported by examples and exercises.

Students can choose from one of the assessment plans used in the Simulation subject: continuous evaluation or final exam.

#### **Assessment Methods:**

Continuous Evaluation or Final Exam

#### **References:**

# QUANTITATIVE APPROACHES TO MANAGEMENT  
Richard I. Levin, David S. Rubin, Joel P. Stinson e Everette S. Gardner  
McGraw-Hill International Editions  
# INTRODUCTION TO SIMULATION AND RISK ANALYSIS  
James R. Evans e David L. Olson  
Prentice Hall  
# FINANTIAL MODELING (uses EXCEL)  
Simon Benninga

#### **Notices:**

**Doutora Ana Paula Lopes**

S. Mamede Infesta, 28 de Março de 2015