



LISBON
SCHOOL OF
ECONOMICS &
MANAGEMENT
UNIVERSIDADE DE LISBOA

Academic Year: 2019/2020

PROGRAMMING AND DATA SCIENCE



Apresentação

- Professor
- Learning Objectives
- Program
- Bibliography
- Evaluation rules



Instructor



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3^{as} feiras – 17:00 às 19:00



Course Objectives

The student should obtain the following skills:

- Consolidate main programming concepts
- Understand programming techniques to manipulate and visualize data
- Use programming languages to explore data
- Create models supported in data.



Course Syllabus

1. **Language Programming Basics**
2. **Data Structures**
3. **Programming Fundamentals: Control Structures**
4. **Programming Fundamentals: Object Oriented**
5. **Wrangling and Exploratory Data Analysis**
6. **Model Development**
7. **Model Evaluation**
8. **Case Study 1**
9. **Case Study 2**
10. **Case Study 3**
11. **Presenting Team Projects**



Evaluation

- Test: 40%
- Quiz and laboratory work: 20%
- Team Work: 40%



Deadlines

1. Team registration (10th October)
2. Project Statement (13th November)
3. Project Submission (8th December)
5. Project Presentation (11th December)



Bibliography

Martins J. P. (2015) Programação em PYTHON: Introdução à Programação Utilizando Múltiplos Paradigmas, IST Press.

