DATA ANALYSIS

General Information

Semester: **1 and 2**   Idioma: **English**

Description

This course is designed to provide students with a comprehensive understanding of the issues involved in data analysis, a rapidly growing field that has revolutionized several industries. Throughout the course, students will learn how to work through the different phases involved in data analysis, as well as different tools and solutions to implement it. This course provides students with a structured foundation in data analysis and provides them with the practical skills and knowledge necessary to extract knowledge from data.

Methodology

- Theoretical concepts will be understood by reading the slides, as well as videos and tutorials, which will be complemented by a discussion session for each topic.
- The guided mini-project, carried out by teams, serves to understand the theory's practical aspects.

Contents

- **Introduction to Data Analysis:**
  - **Theoretical concepts**
  - **Data Life Cycle**
  - **Business vision**

- **Working with data:**
  - **Data collection**
  - **Pre-processing**
  - **Visualization**
  - **Descriptive analysis**
  - **Interpretation of results**

- **Data Analysis Tools:**
  - **Open Source tools**
  - **Proprietary tools**