Data, Information, and Society

Minor in Data, Information, and Society

This minor aims at providing students with the fundamentals of coding and data science, enabling them to address a wide range of research questions through a data-driven approach. The students will learn how to investigate complex phenomena through data and explore new and innovative ways to analyze and visualize information. They will also analyze and discuss the ethical and social implications of digital technologies.

Introduction to Coding
30 hours - (1st year, first semester)
The course aims at providing skills to think and solve problems like a programmer. It will explore fundamental programming concepts like data structures, functions, and logical conditions using the language R.

Data Journalism
30 hours - (1st year, second semester)
The course is an introduction to data storytelling, the art of blending data science and narratives. Students will learn essential skills for analyzing, visualizing and summarizing data, and how to use such skills to tell stories.

Social Networks and Media
30 hours - (2nd year, first semester)
The course is an introduction to data science methods and techniques for the analysis of social phenomena. It aims at providing advanced skills and expertise for manipulating, visualizing, and interpreting social data.

Digital Ethics
30 hours - (2nd year, second semester)
The course provides a multidisciplinary overview of the ethical challenges posed by digital technologies. The aim is to offer conceptual tools to critically analyze the impact of digital applications on individuals and the society.

Laboratory: Case Studies and Good Practices
30 hours - (3rd year, first semester)
The laboratory will discuss examples and practical issues in data analysis from real-world applications, by means of case studies and hands-on experiences.

Laboratory: Hands-on Training
30 hours - (3rd year, second semester)
The laboratory aims to offer students the opportunity to challenge themselves in a research project of their choice, putting into practice methods and techniques covered in the minor.