

# MASTER IN INFORMATION SYSTEMS

## AIM

The aim of this Master course is to provide students with the opportunity to acquire specialized knowledge in Information and Communication Technologies, and to prepare them for professional work in the design, development and management of integrated information systems.

The course is targeted at graduates and covers the design and development of programs and systems, the management and the quality of system development, and advanced issues in telecommunications and networking.

## COURSE DESCRIPTION

### FIRST YEAR

#### PLS50: Fundamental Specialization in Theory and Software

- Algorithms and complexity
- Programming languages
- Software engineering

#### PLS51: Fundamental Specialization in Computer Architecture and Computer Networks

- Digital systems
- Computer architecture
- Computer networks

### SECOND YEAR

#### PLS60: Specialization in Software Technology

- Data management
- Operating systems
- Modern programming methods

## PLS61: Software Design and Management

- Software design
- Software quality and management
- Human – Computer Interaction

## PLS52: Specialization in Networks and Communications

- Advanced issues in computer networks
- Digital communications
- Cryptography and network security