ICT and the Information Society [3 ECTS]

Prof. Roberto Bernazzani

COURSE AIMS AND INTENDED LEARNING OUTCOMES

The course aims to teach students the basic notions of data management, in order to understand the design techniques and possible applications in contemporary society.

At the same time, the topic of data security and cybersecurity in general will also be dealt with.

At the end of the course, students will be able to independently manage the design and implementation process of a database.

COURSE CONTENT

This course is divided into two parts:

Theoretical part:

Introduction to database design, management and security.

Practical part:

Aimed at acquiring IT skills in the field of data management.

Theoretical contents:

- Data management

- Cybersecurity

Practical contents:

- Use of the Microsoft Access application

***READING LIST[[1]](#footnote-1)***

The reference text for the theoretical part is:

- C. Frigerio - F. Maccaferri - F. Rajola, *“ICT e Società dell’Informazione”*, McGraw-Hill, 2019, 3rd edition (Chapter 6 + Paragraph 2.4). [*Bought from VP*](https://librerie.unicatt.it/scheda-libro/chiara-frigerio-federico-rajola-fabio-maccaferri/ict-e-societa-dellinformazione-9788838695674-674055.html)

TEACHING METHOD

For the **theoretical part**, students may download some of the support material used by the lecturer in lectures from Blackboard. Studying the material, however, does not replace the value of frequent lecture attendance and the study of the textbook according to the instructions in the reading list.

ASSESSMENT METHOD AND CRITERIA

A computer exam comprising multiple-choice questions (theoretical part) and an exercise (practical part on the Microsoft Access application). The examination lasts 30 minutes overall and entitles the student to a certificate of competence.

Students who fail an exam will only be permitted to retake it in a subsequent exam session. Registration (compulsory) for the exam follows the ordinary exam calendar and must be done via the Internet from the iCatt student's personal page. Marks will be posted after the exam.

NOTES AND PREREQUISITES

**Should the current Covid-19 health emergency not allow face-to-face teaching, remote teaching will be guaranteed using methods that will be communicated in good time to students**.

Information on office hours available on the teacher's personal page at http://docenti.unicatt.it/.

1. The texts indicated in the reading list may be purchased at the University bookstores; they may also be bought from other outlets. [↑](#footnote-ref-1)