# -. ICT and Information Society I

## Prof. Riccardo Rampini

***COURSE AIMS AND INTENDED LEARNING OUTCOMES***

The course aims to transfer the basic notions of ICT and some of its main applications in order to understand its evolution in contemporary society and to be aware and responsible users.

At the end of the course, students will be able to recognise the main components of an Information System, understand the social implications in the use of IT tools and the aspects relating to risks and security in the use of digital tools and the Internet.

They will also be able to use, at a basic level, the main individual IT tools: text manager, spreadsheet, and presentation.

***COURSE CONTENT***

The course is divided into two parts:

*Theoretical part*

Elements of computer science and application to social sciences. The course consists of classroom lessons held by the lecturer.

*Practical part*

Aimed at acquiring IT skills. It is carried out in self-study by the student using Blackboard. Additional lessons will also be held in the computer classroom.

The programme of the theoretical part reflects the contents of the textbook used.

*Theoretical contents*

– Historical introduction of information technology.

– IT infrastructures.

– Digital convergence and the information society.

– The digitalisation of society.

– Ethics and information technology.

– Big data, algorithms, and artificial intelligence.

– Cybersecurity.

*Practical contents*

– Text processing systems (Word).

– Spreadsheets and multimedia word processing systems (Excel and PowerPoint).

***READING LIST***

Reference text for the theoretical part:

- Frigerio, Maccaferri, Rajola, “ICT e Società dell’Informazione”, McGraw-Hill, (2023) 2nd edition.

***TEACHING METHOD***

For the *theoretical part*, students can download in Blackboard some of the support material used by the teacher during lectures. The study of the material, however, does not replace the importance of attendance and the study of the book according to the information in the reading list.

For the *practical part*, the materials are available on Blackboard in self-learning mode.

***ASSESSMENT METHOD AND CRITERIA***

The assessment consists of a computer exam with multiple choice questions and simulations to be carried out.

The students who pass the exam become qualified.

It is not possible to skip exam sessions. The (mandatory) registration for the exam follows the ordinary exam calendar and must be carried out via the web from the student's personal iCatt page. Exam marks will be recorded at the end of the exam.

***NOTES AND PREREQUISITES***

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