# ICT and the information society II [3 ECTS credits]

## Prof. Paolo Prandini

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

The course aims to teach the basics of ICT and some of its main applications in order to understand how they are changing in contemporary society and how to be aware, responsible users.

At the end of the course, students will be able to understand data infrastructures and file organization systems, as well as and the risk and security aspects involved in the use of digital tools and the Internet.

Furthermore, they will be able to use, at a basic level, the most important individual IT tools: spreadsheets and software for multimedia presentations.

***COURSE CONTENT***

The course is divided into two parts:

*Theory*

Rudiments of information technology and their application to social science. Students may attend a course of lectures held by the lecturer.

*Practice*

This part aims to teach information technology skills. It consists of self-study material students may access on the Blackboard platform.

The theory syllabus reflects the content of the course textbook adopted that will be indicated by the lecturer in class.

*Theory (contents)*

– Data infrastructures

– Big data, algorithms and artificial intelligence

– Cybersecurity

*Practice (contents)*

– Spreadsheets (Excel)

– Multimedia presentation processing systems (PowerPoint).

***READING LIST***

Reference text for the theoretical part:

Frigerio-Maccaferri-Rajola, *ICT e società dell’informazione*, McGraw-Hill, 2023, 2nd edition.

***TEACHING METHOD***

The teaching material used by the lecturer for the *theory* may be downloaded from Blackboard. However, studying the material is no substitute for attendance and studying the course book indicated in the reading list.

The material for the *practice* is available on Blackboard for self-study.

***ASSESSMENT METHOD AND CRITERIA***

A computer test with multiple choice questions and simulations that have to be performed in a simulation environment and entitles students to a proficiency grade.

The duration of the test and the division of questions between theory and practice will be communicated by the lecturer at the beginning of the lessons.

It may be repeated on consecutive examination dates if necessary. Examination enrolment (compulsory) follows the ordinary session calendar and must take place via web through the *iCatt* student’s personal webpage. The result is recorded at the end of the examination itself.

***NOTES AND PREREQUISITES***

Further information can be found on the lecturer's webpage at http://docenti.unicatt.it/web/searchByName.do?language=ENG or on the Faculty notice board.