



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Juridical and Social Issues in Information Society

2122-1-F9101Q007

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#### Learning objectives

The course Juridical and Social Issues in Information Society is divided in two modules: one concerns the ethical-legal questions arising from the transformation of society in Information Society (prof. Salardi), the other concerns social issues (prof. Masiero).

As far as the module on ethical-legal issues (prof. Salardi), the course aims to equip students with theoretical and argumentative tools useful to develop critical thinking of students who will directly work with technologies in the field of Information Society. Discussion of an ethical case will be integral part of this aim. At the same time, as ethics comprises also the law, regulations concerning the main aspects of interest for Data Science Students will be analysed. In particular, the Regulation on Data Protection (GDPR) and regulations on IA.

During the course, students will be asked to work on a practical project to be defined.

The goal of the module "Social Issues in Information Society" (Prof. Roberto Masiero & Camilla Bellini) is to prepare students to understand the impacts and to face the challenges of the Data Revolution on the Economy and the Society. This module is instrumental in providing students with an overall understanding of the domains that are going to benefit most from the Data Revolution and in helping them to experience a more successful professional career path in the future. While students will be progressively learning to use the methodologies and technical tools that are the main content of the overall Master of Science in Data Science, the module should prepare them to look for, identify and understand the meaningful patterns of social, environmental and economic phenomena and the Philosophical and ethical implications related to the Data Economy.

#### Contents

The course Juridical Issues in Information Society analyses the ethical-legal questions arising from technologies pervading the process of informatization and digitalization of society in its different sectors.

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- \_\_\_\_\_
- challenging social and philosophical issues in the information society
- the challenging role of the data scientist. New jobs and the industries of the future
- The Game: About the technological and mental revolution that brought us from the vision of the '900 to the "Augmented Humanity".

## Detailed program

Ethical and Juridical Issues in Information Society, Prof.ssa Silvia Salardi

The course will be divided in two parts:

- a general part dealing with distinction between and identification of technical and ethical-legal problems; philosophical perspectives supporting different conception of technological development influencing the law making process in this field; specific domains benefiting from data revolution like medicine;

-a special part dedicated to nature of legal documents, GDPR, cyber security

-the course will close with an event gathering experts from different disciplines on a specific topic to be defined at the beginning of the course

Social Issues in Information Society, Prof. Roberto Masiero & Camilla Bellini

### Lectures

- \_\_\_\_\_
- The cognitive revolution – Political, scientific and technological revolutions - The Fourth revolution
- The concept of “Infosphere”: How ICTs are changing the philosophy, ecology and ethics of information
- Privacy, politics and environmental issues in the digital world
- Theoretical Social and Philosophical Issues related to Artificial Intelligence
- The impact of the digital innovation on growth, employment and wealth distribution

### Labs

- \_\_\_\_\_
- How ICTs are changing the Economy and the Enterprise
- The Industries of the Future

## Prerequisites

None

Social Issues in Information Society, Prof. Roberto Masiero & Camilla Bellini

- Basic knowledge of recent technology evolutions: mobile, cloud, social networks, big data, IoT

## Teaching methods

Juridical Issues in Information Society, Prof.ssa Silvia Salardi

E-learning platform

Frontal lectures

Discussion of ethical-legal cases

Intervention of experts as regards specific topics

**Lectures of Salardi's module will be in presence and for those students who cannot attend streaming will be granted in order to allow direct online participation**

The link to streaming will be published before the beginning of the course on the e-learning platform.

Social Issues in Information Society, Prof. Roberto Masiero & Camilla Bellini

- Lectures, Labs and e-Learning platform

## Assessment methods

Juridical Issues in Information Society, prof.ssa Silvia Salardi

The exam is oral. The final note will be recorded once the student has taken the exam of both modules (Juridical and Social/Salardi-Masiero). The student must register for each module in order to take each exam separately, preferably in the same session.

Social Issues in Information Society, Prof. Roberto Masiero & Camilla Bellini

- Written Exam (if allowed by the University), or in alternative Oral Exam
- An optional "Taking Home" project

## Textbooks and Reading Materials

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Social Issues in Information Society, Prof. Roberto Masiero & Camilla Bellini

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- Alec Ross, The Industries of the Future, Simon & Schuster (2016)
- Alessandro Baricco, The Game, Einaudi, 2018

A detailed list of further papers and articles will be delivered during the Course.

