



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Juridical and Social Issues in Information Society

2021-1-F9101Q007

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#### Aims

Juridical Issues in Information Society, Professor Silvia Salardi

The aim of the course is to introduce students to the main ethical-legal and social problems arising by the interaction between law and computer science.

SOCIAL ISSUES IN INFORMATION SOCIETY, Prof. Roberto Masiero, Camilla Bellini

The objective of the course is to prepare students to understand the impacts and to face the challenges of the Data Revolution on the Economy and the Society. The module "Social Issues In Information Society" 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

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

1) Introduction to the course

- 2) Layers of problems: from technical problems to ethical-legal questions
- 3) Philosophical-legal perspectives on technological advances and the law: bioconservatives v. transhumanists.
- 4) Domains benefiting from the data revolution: 1) Medicine as a case study (algorithmic decisions-making)
- 5) Domains benefiting from the data revolution: 2) Computer forensics
- 6) The nature of a digital legal document
- 7) The General Data Protection Regulation: introduction and characteristics
- 8) The General Data Protection Regulation and scientific research
- 9) Cybernetic security Perimete
- 10) Round table on 'Beyond democracy. Techniques and problems of digital democracies'

## **SOCIAL ISSUES IN INFORMATION SOCIETY**, Prof. Roberto Masiero, Camilla Bellini

Topic 1. Introducing some key social issues in the information society

Topic 2. The impact of digital innovation on employment and wealth distribution

Topic 3. Challenging social and philosophical issues in the information society

Topic 4. The challenging role of the data scientist. New jobs and the industries of the future

Topic 5: 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

Technological advances started in the second half of the XX century have contributed to substantially improving individual and collective existence thanks to new modalities of work, relationship, and management of collective life. However, technical progress has also arisen unprecedented ethical and legal problems. It is crucial for students that deal with these topics to understand the difference between technical questions and ethical-legal ones. In so doing, students will be able to use the adequate tools to solve the different problems. To let students achieve this understanding, the course addresses a set of issues useful to explain and concretely deal with ethical-legal aspects with the participation of experts from different fields whose contribution is fundamental to the understanding of the interrelationship between technology, ethics, and law.

## **SOCIAL ISSUES IN INFORMATION SOCIETY**, Prof. Roberto Masiero, Camilla Bellini

**LECTURE 1 - 11/11/2020 (11.30-13.30)**

Course introduction: Main objectives, contents and methodology;

The cognitive revolution – Political, scientific and technological revolutions - The Fourth revolution

**LECTURE WITH GUEST SPEAKER - 18/11/2020 (11.30-13.30)**

Ing. Mirella Cerutti, Amministratore delegato, SAS Italia

**LAB 1 - 19/11/2020 (15.30-17.30)**

How ICTs are changing the Society: the impact of the Internet and the Network Society

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**LECTURE 3 - \_\_\_\_\_**

The concept of "Infosphere": How ICTs are changing the philosophy, ecology and ethics of information (Part 2)

**LECTURE 4 - 02/12/2020 (11.30-13.30)**

Privacy, politics and environmental issues in the digital world

**LAB 2 - 03/12/2020 (15.30-17.30)**

How ICTs are changing the Economy and the Enterprise

**LAB 3 - 09/12/2020 (11.30-13.30)**

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**LECTURE 5 - 10/12/2020 (15.30-17.30)**

Theoretical Social and Philosophical Issues related to Artificial Intelligence

**LECTURE 6 - 16\_\_\_\_\_**

The impact of the digital innovation on growth, employment and wealth distribution

**LECTURE 7 - 17/12/2020 (15.30-17.30)**

The impact of the digital innovation on growth, employment and wealth distribution

**LECTURE 8 - 7/1/2021 (15.30-17.30)**

Session devoted to the public presentation and review of the projects developed by the students.

**Prerequisites**

Ethical and Juridical Issues in Information Society, Professor Silvia Salardi

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 form**

Ethical and Juridical Issues in Information Society, Professor Silvia Salardi

During the Covid-19 emergency lectures will be in blended learning

SOCIAL ISSUES IN INFORMATION SOCIETY, Prof. Roberto Masiero, Camilla Bellini

Over the period November 16- January 9 Lectures will be held in streaming, through a network allowing the best possible interaction, so to facilitate the active participation of the students.

### **Textbook and teaching resource**

- Ethical and Juridical Issues in Information Society, Professor Silvia Salardi

Readings will be communicated during the lectures in addition to the following basic text:

Eric Sadin, *Critica della ragione artificiale. Una difesa dell'umanità*, Luiss, 2019

- SOCIAL ISSUES IN INFORMATION SOCIETY, Prof. Roberto Masiero, Camilla Bellini

Luciano Floridi, *The Fourth Revolution: How the Infosphere is Reshaping Human Reality* (2016) – Ed. OUP Oxford

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 at the beginning and during the Course.

## Semester

First semester

## Assessment method

1)- Ethical and Juridical Issues in Information Society, Professor Silvia Salardi

Oral exam

2)- SOCIAL ISSUES IN INFORMATION SOCIETY, Prof. Roberto Masiero, Camilla Bellini

Written Exam ( if allowed by the University), or in alternative Oral exam

Furthermore, students may develop an **optional "Taking Home"** project, that will be evaluated from 0 to 3 additional points to the written or oral exam.

Students, in groups of 2/3 people, are expected to deliver **by December 31, 2020:**

- a Report, written either in English or in Italian, of no more than 5 pages , plus tables and figures
- a Powerpoint presentation

Possible project contents:

- In-depth discussion of one of the themes of the Lectures of the Course
- Discussion of one of the Papers proposed during the Course
- Development of a theme consistent with the contents and the objectives of the course.

An abstract of the Project must be approved in advance **by November 30** by Professor Roberto Masiero

**Please note that both Lectures and Labs contents are an essential part of the exam program.**

## Office hours

Ethical and Juridical Issues in Information Society, Professor Silvia Salardi

Please contact the teacher per e-mail: [silvia.salardi@unimib.it](mailto:silvia.salardi@unimib.it)

- SOCIAL ISSUES IN INFORMATION SOCIETY, Prof. Roberto Masiero, Camilla Bellini

Please contact the teacher per e-mail: [roberto.masiero@unimib.it](mailto:roberto.masiero@unimib.it)

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