



Syllabus

Academic Year	2022/2023
Program	Data Science and Management
course	Ethics for Artificial Intelligence
Term	I semester
Year	2
SSD	M-FIL/02
Credits	6

INSTRUCTIONAL GOALS

Our society's economics, ethics, politics, and law—in short, our way of life—is being significantly and rapidly transformed as Artificial Intelligence (AI) systems are embedded in more and more facets of our lives. The course focuses on the ethical issues involved in the latest developments of AI, and in particular on the algorithmic judgment at its core, which as of today is developing at an impressive speed.

INTENDED LEARNING OUTCOMES

They describe what a learner is expected to know, understand and be able to demonstrate after completion of a learning path.

Knowledge and understanding:

The course will provide the conceptual framework and perspectives to analyze the philosophical and ethical issues that current and future digital technologies, and in particular AI systems and algorithms, pose to our society. In addition, students will be provided with a good understanding of the foundations of modern and ancient approaches to ethics and their differences.

Applying knowledge and understanding:

On successful completion of the course students will be able to:

- Enhance and apply their understanding of ethics broadly
- Gain familiarity with the problems of ethics and some of the possible solutions specifically related to algorithms and AI
- Apply their ethical understanding to analyze cases involving algorithms, AI, social media and data.

Making judgements:

Students are expected to be able to demonstrate an in-depth, critical understanding of the ethical challenges of digital technologies and the ethical problems related to the management of data. Throughout the entire course, students will be also invited to explore and assess critically the connections among the social, cultural, and political aspects of digital technologies.

Communications Skills:

This course will give the students the possibility to acquire and to understand major terms and concepts so as to communicate effectively their ideas, findings, proposals, analysis and critical reasoning in the area of ethics for digital technologies. The course will pay due emphasis on active student participation, class talk, oral presentations and also written assignments.



	<p>Learning skills: The course will give students the opportunity to develop their ability to approach ethical issues in today's data-driven society. A focus on different practical cases will provide students with the necessary skills to apply knowledge and understanding to specific scenarios.</p>
Pre-requisites	No specific prerequisites are required.
Course content	This course will explore the ethical issues related to digital technologies, in particular AI and algorithms. In addition, the course will cover a range of current issues and topics through the application of important moral theories, exploring how digital technologies often challenge what we know about ethics, politics and law.
Reference Books	The course will be based on collection of top scientific articles and book excerpts. Articles and other materials (cases) will be available through the Luiss Learn platform.
Teaching Methods	The course will be based on lectures and classes organized around different lecture topics. Classes will entail additional material and cases that will illustrate the key ideas presented on each lecture. Students will be encouraged to actively participate in the lectures through questions, practical and theoretical elaborations.
Assessment	<p>Assessment will consist of a written assignment and an oral examination. Each will count for 50% of the grade.</p> <p>In the written assignment students are required to demonstrate that they are able to:</p> <ul style="list-style-type: none">• Have familiarity with the problems of ethics and some of the possible solutions specifically related to algorithms and AI• Apply their ethical understanding to analyze cases involving algorithms, AI, social media and data. <p>In the oral examination students are required to demonstrate that they are able to:</p> <ul style="list-style-type: none">• Understand the foundations of ethics broadly• Understand the foundations of modern and ancient approaches to ethics and their main differences. <p>The overall assessment will take into account the level of knowledge and understanding of the ethical issues in digital technologies; the students' capacity for thinking creatively, innovatively, and critically; and their capacity to present effectively findings and conclusions.</p>
