



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### **Narrative thinking and strategic storytelling: communicating research as a citizenship project**

2324-102R-15

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#### **Titolo**

**Philosophy of Artificial Intelligence and robotics**

*Note: The actual title of this course is "Philosophy of Artificial Intelligence and robotics". The official title could not be changed for technical reasons.*

#### **Docente**

Prof. **Edoardo Datteri**

Full professor of Logic and Philosophy of Science

Department of Human Sciences for Education

Director of the RobotiCSS Lab ([roboticss.formazione.unimib.it](http://roboticss.formazione.unimib.it))

#### **Lingua**

English

#### **Breve descrizione**

*Note: The actual title of this course is "Philosophy of Artificial Intelligence and robotics". The official title could not be changed for technical reasons.*

Contemporary research in Artificial Intelligence (AI) and robotics gives rise to a large number of distinctive philosophical questions and dilemmas that, while urgent and pressing, are often sidestepped, or only superficially addressed, in science and technology courses. Can artificial intelligence systems have a mind and develop forms of consciousness? What kind of knowledge can computer simulations provide about the world, and how can it be justified? Can robotic models of living organisms be used as experimental tools in life sciences? What kind of explanations should explainable AI systems provide? How can we trust artificial intelligence and robotic systems, how can we ethically evaluate their behavior and assign responsibility for the actions they generate? These and other questions pertain to different branches of philosophy, including epistemology, philosophy of science and moral philosophy, and are increasingly at the center of the public debate on artificial intelligence and robotics. They will be partially addressed in this course.

The lessons will be highly interactive and intended for doctoral students from fields other than philosophy and without a philosophical background. Philosophical debates will be organized and encouraged, also with the help of invited lectures by leading experts in the various sectors covered.

## **Target audience**

PhD students from all the courses offered in Bicocca.

## **Numero massimo di partecipanti**

25

## **Metodo di valutazione**

Active participation in the discussion and in the debates organized during the lessons will be positively evaluated. No final test will be administered.

## **CFU / Ore**

1 CFU / 12 Hours

## **Periodo e modalità di erogazione**

The lessons will be highly interactive and intended for doctoral students from fields other than philosophy and without a philosophical background. Philosophical debates will be organized and encouraged, also with the help of invited lectures by leading experts in the various sectors covered.

**March 1, 2024, 16:00 – 18:00 U6-01D**

Introduction: Philosophical issues in AI and robotics

**March 6, 2024, 14:00 – 16:00 U6-22**

Finance, AI, and Technology

With the contribution of Prof. Emiliano Ippoliti (University of Rome “La Sapi-enza”)

**March 15, 2024, 16:00 – 18:00 U6-33**

Machine consciousness

**March 22, 2024, 16:00 – 18:00 U6-23**

Computer simulations in the cognitive and life sciences

**April 5, 2024, 16:00 – 18:00 U6-23**

Ethical issues in AI and robotics

**April 19, 2024, 10:00 – 12:00 U6-33**

The attribution of mental states to robots: empirical findings and philosophical questions

With the contribution of Prof. Tom Ziemke (Linköping University, Sweden)

**course registration on “Segreteria online”:** 12/02/2024 - 26/02/2024

## **Sustainable Development Goals**

IMPRESE, INNOVAZIONE E INFRASTRUTTURE

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