



COURSE DATA

DATA SUBJECT

Code: 33287

Name: Philosophy and artificial intelligence

Cycle: Undergraduate Studies

ECTS Credits: 6

Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
1004 - Degree in Philosophy	Facultat de Filosofia i Ciències de l'Educació	3	First quarter
1004 - Degree in Philosophy	Facultat de Filosofia i Ciències de l'Educació		First quarter
1012 - Degree in Philosophy	Facultat de Filosofia i Ciències de l'Educació	4	First quarter
1012 - Degree in Philosophy	Facultat de Filosofia i Ciències de l'Educació	3	First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1004 - Degree in Philosophy	Philosophy and artificial intelligence	ELECTIVES
1004 - Degree in Philosophy	Philosophy and artificial intelligence	ELECTIVES
1012 - Degree in Philosophy	Philosophy and artificial intelligence	ELECTIVES
1012 - Degree in Philosophy	Philosophy and artificial intelligence	ELECTIVES

COORDINATION

LUQUE MARTIN VICTOR JOSE

SUMMARY

This course will make a historic journey on the issue of artificial intelligence, focusing on the origin and development of axiomatic systems and formal languages. In this line, the virtues and boundaries of these systems will be raised from their central elements (Turing Machines, algorithm, computability, etc.). On this basis, in a second part of the course we will explore its contemporary uses (big data, machine learning, simulations, etc.) and the dilemmas that, at both scientific and ethical and social level, they raise.

PREVIOUS KNOWLEDGE



RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

Competences and contents of the first year of the Degree in Philosophy (in particular, familiarity with the English language to be able to read texts in that language).

COMPETENCES / LEARNING OUTCOMES

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Acquire a basic knowledge of the problems, texts and methods that philosophy has developed throughout its history and recognise possible androcentric biases.

Acquire the capacity to pose and solve problems, as well as to make decisions, in a limited time.

Acquire the learning skills needed to undertake further studies with an increasing degree of autonomy.

Appreciate autonomy and independence of judgement.

Be able to apply knowledge to practice.

Be able to apply knowledge to work in a professional manner and have competences for preparing and defending arguments and for solving problems within the field of study.

Be able to apply the knowledge acquired to clarify or solve certain problems outside one's own field of knowledge.

Be able to communicate in a foreign language.

Be able to convey information, ideas, problems and solutions to others (experts or not).

Be able to handle the applications of information and communication technologies.

Be able to improve and develop professionally.

Be able to learn autonomously.

Be able to obtain information from different primary and secondary sources.

Be able to organise and plan work times.

Be able to take on social and ethical commitments.

Be agile and efficient managing various sources of information: bibliographical, electronic and others.

Be competent in the philosophical study of particular areas of research and human praxis, such as mind, knowledge, language, technology, science, society, culture, ethics, politics, law, religion, literature, arts and



aesthetics, avoiding androcentric biases.

Be familiar with the ideas and arguments of the main philosophers and thinkers, extracted from their texts, and with the investigation of their traditions and schools, identifying the possible androcentric biases.

Capacidad de comunicación profesional oral y escrita en las lenguas propias de la Universitat de València.

Develop innovation and creativity.

Expresar con precisión los resultados del análisis de problemas controvertidos y complejos.

Have critical and self-critical capacity.

Identify and evaluate clearly and rigorously the arguments presented either in texts or orally.

Identify the fundamental issues that underlie any type of debate.

Know how to work in a team avoiding gender discrimination.

Recognise human fallibility.

Ser respetuoso con la diferencia y la pluralidad evitando la discriminación por razones de género.

Students must be able to communicate information, ideas, problems and solutions to both expert and lay audiences.

Students must have acquired knowledge and understanding in a specific field of study, on the basis of general secondary education and at a level that includes mainly knowledge drawn from advanced textbooks, but also some cutting-edge knowledge in their field of study.

Students must have developed the learning skills needed to undertake further study with a high degree of autonomy.

Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.

DESCRIPTION OF CONTENTS

1. Axiomatic systems: their origin, history, and necessity

Historical survey of the formalization of language. Construction of axiomatic systems (from Aristotle to Gödel) and their use in the development of artificial intelligence.

2. Turing Machines

Analysis of the notion of computability. Scope and limits of Turing Machines.



3. Artificial Intelligence: relevance and projection

Big data, machine learning, simulations, etc., and their impact on our societies.

4. Philosophical issues related to artificial intelligence

The mind problem. The use of computers for the resolution of scientific questions (mathematical proof, simulations of physical systems, etc.). Ethical dilemmas derived from it in social and political areas.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Tutorials	5,00
Theory	30,00
Seminar	15,00
Total hours	50,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	20,00
Independent study and work	60,00
Preparation of lessons	0,00
Preparation for assessment activities	10,00
Resolution of case studies	10,00
Total hours	100,00

TEACHING METHODOLOGY

The theoretical classes will explain the concepts and main positions on each topic to treat. If necessary, the teacher will indicate the supplementary readings that are relevant to provide a better understanding of the topic. If the teacher thinks it is convenient, and depending on the number of students enrolled, she can opt for students to display their reflections in class, in memory format ordered, on the issues raised by the teacher in previous classes. The practical classes are intended to discuss and apply the notions exposed in the theoretical classes through several texts by authors and/or specific episodes related to the topics of this course. It can also be organized oral presentations by students on specific readings.

EVALUATION

The qualification of this course is obtained as follows:



- Final written test of the topics discussed in the theoretical classes: up to 80% of the overall mark. It will consist of long answers, short answers, or a combination of both types.
- Exercises/questionnaires, text analysis (individual or group), active participation in practical classes, discussion groups, etc.: up to 20% of the total note.
- To pass the course it is necessary to pass the final test. Otherwise it will not be added the note of practical classes.

Fraudulent conduct in assessment tests and plagiarism in assessment work will be considered in accordance with the UV Assessment and Grading Regulations (ACGUV 108/2017) and the Protocol for Action against Fraudulent Practices (ACGUV 123/2020).

The use of technologies (including AI) to create assessment materials without prior and express authorization from the teaching staff will prevent them from being considered as self-authored and will be treated according to current regulations and the UV Code of Coexistence and Good Practices (ACGUV 300/2023, DOGV, no. 9747/18.12.2023).

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