

Ethics of Artificial Intelligence

Single subject and programme course

7.5 credits

Den artificiella intelligensens etik

721G28

Valid from: 2019 Autumn semester

Determined by

Course and Programme Syllabus Board
at the Faculty of Arts and Sciences

Date determined

2019-03-06

Main field of study

Applied Ethics

Course level

First cycle

Advancement level

G2F

Entry requirements

- 60 ECTS credits passed
- English corresponding to the level of English in Swedish upper secondary education (Engelska 6)
Exemption from Swedish

Intended learning outcomes

Having completed course, the student should at a basic level be able to:

- provide an account for concepts, theories and problem within applied ethics and the ethics of artificial intelligence (AI),
- develop a theoretically informed argumentation in specific problem areas related to AI,
- formulate theory-based political recommendations and assessments regarding a moral issue related to AI in a particular professional area,
- express an open and critical stance to claims and arguments.

Course content

The course deals with ethical questions that rise from the development of more and more sophisticated autonomous systems, questions of what requirements that should hold for the technology and why included, which sort of agents artificial systems are, if these can be considered moral agents and if they can be ascribed moral responsibility as well as where the main responsibility for artificial intelligence (AI) ought to be placed and why. The course focuses three main areas of moral relevance for autonomous systems and AI: responsibility for decisions made by artificial agents, bias/discrimination as a result of AI use and the importance of participation in the development of AI systems. During this course, students are provided theoretical tools for reflection on the development of AI, requirements that ought to be made regarding this technology and how it ought to be managed in society.

Teaching and working methods

The course is based in lectures, group discussions, seminars as well as independent work in the form of preparatory assignments and literature studies. The course is taught both as a campus course and as an internet-based distance course. In the internet-based version, students conduct group discussions on the same questions as students participating in campus-based seminars. The language of instruction is English.

The course utilizes digital interactive teaching methods and applications which can include video clips, notes, quiz and self-tests.

Examination

The course is examined by oral presentations and writing a paper. Detailed information can be found in the study guide.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it. If the coordinator has instead recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

Grades

ECTS, EC

Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is carried out in such a way that both men's and women's experience and knowledge is made visible and developed.

Department

Institutionen för kultur och samhälle