LL142U Teaching artificial intelligence in upper secondary school: Social perspectives 7.5 credits

Att undervisa artificiell intelligens på gymnasial nivå - samhällsperspektiv

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

The official course syllabus is valid from the spring semester 2024 in accordance with the decision by the Faculty Board: M-2024-0018 Decision date: 2024-06-13.

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

On completion of the course, the student should be able to

1. Give an account of and discuss the influence of AI on individuals and society from democratic, ethical and social perspectives

2. Describe how artificial intelligence has developed since the establishment of the field up until today.

3. Give an account of central features of national and international guidelines, standards, laws and regulations relevant to the development and use of AI.

4. Plan and evaluate teaching about the abovementioned aspects of AI for pupils in the upper secondary school

Course contents

The course focuses on the following themes:

- Historical overview of the development of artificial intelligence up until today.

- Critical perspectives on artificial intelligence and its development.

- Opportunities and risks with artificial intelligence in the nearest decades.

- Ethical aspects related to artificial intelligence, today and in the future.

- Teaching at upper-secondary level about societal and ethical aspects on artificial intelligence.

Examination

 • SEM1 - Seminars and exercises, 3.5 credits, grading scale: P, F
 • INL1 - written assignments, 4.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.