FID3023 Research Methodology in Computer Science 7.5 credits

Forskningsmetodik inom Datavetenskap

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

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

Establishment

Course syllabus for FID3023 valid from Autumn 2019

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Doctoral students

Language of instruction

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

Intended learning outcomes

After the course, the student will be able to:
- evaluate different scientific research methods in computer science.
- describe how these methods can be used in their own research.
- analyze computability and reproducibility in their own research.
- design, conduct, present, analyze, and summarize experiments.
- apply basic statistical methods applicable within computer science.
- analyze professional responsibility and ethical aspects specific to computer science.
- identify elements in own research relevant to the KTH- and the UN sustainability development goals.

Course contents

The course includes but is not limited to: models and their properties, experiments, sustainability, ethics, and statistical methods.

Examination

 • EXA1 - Written exam, 7.5 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.

 Assignments.

Other requirements for final grade

 Active participation and fulfilled assignments.

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.