



FAK3127 The Sustainable Scientist 2.0 credits

Den hållbara forskaren

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 FAK3127 valid from Autumn 2021

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

The student needs to have studied at least one year at the third-cycle (research) level.

Language of instruction

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

Intended learning outcomes

After completed course, the student shall be able to:

- identify and describe common research ethical problems.
- analyse the research ethical problems taking relevant empirical factors into account.
- suggest possible solutions to the research ethical problems.
- analyse the concepts of Sustainable Development, Gender Equality, Diversity and Equal Opportunities in relation to science and technology.
- reflect on the role of research and researchers for achieving a sustainable and equal development.
- identify different types of intellectual property created in the research .
- reflect on and identify potential ways of protecting and creating value from the intellectual property created in the research.

Course contents

The course includes lectures and exercises in three different modules:

(1) Basic Research Ethics

Key ethical issues and concepts (such as autonomy and informed consent). Research misconduct. The researcher responsible for research consequences. The relevance of the research norms of basic ethical theories. Ethical review and research ethics committees, the new law on research ethics review.

(2) Researchers and Sustainable Development

Key concepts and issues. Ethical responsibility for sustainability. The moral responsibility of researchers, engineers and experts. Interactions between science, policy and society. Corporate responsibility.

(3) Innovation and Intellectual Property

Key concepts and issues. Innovation - Different ways to create value and impact from research results. IP and contracts - Different ways of protecting intellectual property and common agreement in the innovation process and how they work in practice.

Examination

- HEM1 - Home assignments, 2.0 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.

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.