

Faculty common course 2021

Ansökan om medel för fakultetsgemensam forskarutbildningskurs 2021

English course title Ethics of technology and science I, mandatory

Kursnamn på engelska

Swedish course title Etik för teknologi och naturvetenskap I, obligatorisk

Kursnamn på svenska

Extent (credits) 2

Omfattning (högskolepoäng)

Language of instruction English

Undervisningsspråk

Recommended prerequisites

Rekommenderade förkunskaper

PhD student at the faculty of Technology and Science. No particular prior knowledge.

General course objective/s and learning outcomes (Also specify which PhD examination goals that are addressed/covered. Describe how.)

Kursens syfte och mål (Beskriv vilka mål för examen på forskarnivå som beaktas och på vilket sätt.)

According to the Swedish Higher Education Ordinance, to fulfil the degree objectives for a PhD degree, the PhD student should show intellectual independence and scientific honesty, as well as the ability to make research ethical judgments. Also, a degree objective is to show an in-depth understanding in the possibilities and limitations of science, its role in society and people's responsibility for how it is used. This course directly addresses these two-degree objectives. After the course, the students should be able to:

- Account for research ethics guidelines from the Swedish Research Council
- Demonstrate an ability to make research ethical judgments
- Account for and discuss the ethical responsibility of researchers within Science and Technology
- Describe and analyze the ethical challenges affecting one's own research field and research practice

Students read the booklet Good Research Practice by the Swedish Research Council, which covers the first learning objective. This is examined by a home exam. In the first lecture of the course, a presentation of what it means to have the ability to make research ethical judgments. The pedagogical focus is to cultivate competence and skills to handle ethical issues in science and research, not only during the phases of research and development, but also for the successful application and implementation of research findings. A main idea is that there are always a number of ethical values at stake and that the PhD student needs to train in order to handle the sometimes-conflicting values, understanding the pros and cons of alternative actions. In the group work leading up to two seminars, as well as a question on the home exam, the students are practicing how to make research ethical judgments, both relating to an issue affecting all fields such as research authorship, and an issue related to the student's own field. This covers the second learning objective. The third learning objective is covered by a short assignment about researcher's responsibility which is discussed in class. The fourth learning objective is cultivated throughout the course and examined in the essay question of the home exam.

Course contents

Kursinnehåll

The course offers knowledge in the areas of ethical theory, technology ethics and research ethics, especially within the field of technology and science. Moreover, the participants focus on tools and practical skills to enhance their ability to deal with ethical issues, and stimulate their ethical thinking and responsibility.

Instruction (course structure)

Undervisning (kursens uppläggning)

The course consists of two lectures and two seminars, and of individual and group assignments focusing on the ethics of technology and science.

Assessment (form of examination)

Examination (examinationsformer)

Mandatory participation in all lectures, seminars and assignments, individual exam and essay.

Course examiner (name, e-mail)

Examinator (namn, e-post)

Iordanis Kavathatzopoulos, iordanis@it.uu.se and Thomas Lennerfors, Thomas.Lennerfors@angstrom.uu.se

Department with main responsibility

Huvudansvarig institution

Information Technology and Engineering Sciences

Contact person/s (course responsible teacher) (name, e-mail)

Kontaktperson/er (kursansvarig lärare) (namn, e-post)

Iordanis Kavathatzopoulos, iordanis@it.uu.se and Thomas Lennerfors, Thomas.Lennerfors@angstrom.uu.se

Course dates/period

Kurs datum/period

Spring 2021, one course

Autumn 2021, two courses

Maximum number of participants

Antal platser

30+30+30

Submit the application for admission to

Skicka anmälan till kursen till

Susanne Paul, <susanne.paul@uadm.uu.se>, <http://www.teknat.uu.se/education/postgraduate/courses/>

Submit the application not later than

Skicka anmälan senast