



FKF3440 Advanced Experimental Techniques; Theory and Practise, I 7.5 credits

Avancerad experimentell teknik; teori och praktik, I

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 FKF3440 valid from Spring 2020

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Accepted for doctoral studies at KTH-CBH.

The course is included as a possible choice within the subject-specific courses.

Language of instruction

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

Intended learning outcomes

The student must after the course:

1. Have demonstrated sufficient skills on the instrument, both in theory and in practice, to keep the instrument in good shape.
2. Be able to communicate the technique on an advanced research level to fellow researchers.
3. Be able to coordinate/administrate the use of the technique/instrument in a research organization.

Course contents

At least one years of instrument responsibility for one or several instruments. However, the course can only be taken once. Writing of a manual.

Emphasis should be placed on the use of the instrument / technology in subject-relevant applications.

Examination

- PRA1 - Practical training, 4.0 credits, grading scale: P, F
- TEN1 - Exam, 3.5 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.

Oral exam on the technique/instrument which is held by the main supervisor or by a person nominated by the main supervisor.

Other requirements for final grade

These parts must have been accomplished for the final examination of the course:

1. Minimum 1 year of responsibility of an instrument. The main supervisor will decide whether the suggested instrumental duty is sufficient/suitable for the student to take the course.
2. Written instrument manual.
3. Documented teaching of colleagues on how to use the instrument.
4. Passed oral exam on the technique/instrument (handled by the main supervisor).

The course is counted as part of the research studies and not as an institutional service.

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.