



SK2005 Project course in Optics and Photonics 7.5 credits

Projektkurs i optik och fotonik

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

The course plan applies from and including VT 2023 according to school head decision: S-2022-1340 Decision date: 2022-10-10

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Engineering Physics

Specific prerequisites

Completed course SK2303 Optical physics 7.5 credits and at least two additional courses in the field of optics.

Language of instruction

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

Intended learning outcomes

After passing the course, the student must be able to:

- Apply relevant knowledge and skills previously acquired in the subject area to an in-depth problem in optical physics.
- Within given frameworks, even with limited information, independently analyze and discuss issues in optical physics

Course contents

The project work consists of independent work in optical physics. The subject of the project is determined in consultation between student and examiner and must constitute an in-depth study in the field of optics and photonics. The project can take different forms, e.g. self-study and simulations or practical work in a research lab. The project work must be at advanced level and correspond to 5 weeks of full-time studies.

Examination

- PRO1 - Project work, 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.

The examination will be adapted to the design of the project and may consist of, e.g. assignments, oral presentation and report writing. This is determined at the beginning of the course in consultation between examiner and student.

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.