



SI2350 Seminar Course in Theoretical Physics 7.5 credits

Seminariekurs i teoretisk fysik

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 SI2350 valid from Autumn 2008

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Physics

Language of instruction

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

Intended learning outcomes

After completion of the course you should be able to:

- write a personally composed report on a topic in modern theoretical physics,
- use the typesetting program LaTeX,
- present a report at a seminar,
- critically evaluate another person's report and seminar,
- have a general knowledge of different topics in modern theoretical physics.

Course contents

Topics from modern theoretical physics such as quantum mechanics, condensed matter theory, elementary particle physics, astroparticle physics, and cosmology.

Specific prerequisites

Recommended prerequisites: Quantum Physics and Relativity or equivalent prerequisites.

Course literature

- P. Jacobsson, Introduktion till LaTeX, Studentlitteratur (2004) [or equivalent]
- Hand-out material and "online material" as well as the students' reports.
- The students should search for references themselves (with supervision from the coordinator) to their reports and seminars.

Examination

- INL1 - Report, 3.0 credits, grading scale: P, F
- NÄR1 - Attendance, 1.5 credits, grading scale: P, F
- SEM1 - Seminars, 1.5 credits, grading scale: P, F
- TEN1 - Examination, 1.5 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.

Other requirements for final grade

A exam about the typesetting program LaTeX (TEN1; 1,5 university credits). An own written report (INL1; 3 university credits), oral presentation of the report in form of a seminar and oral and written objection on another student's report and seminar (SEM1; 1,5 university credits) as well as 75 % attendance of all meetings and seminars (NÄR1; 1,5 university credits).

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.