



DEPARTMENT OF PHYSICS

FYP415 Physics: Bachelor Thesis, 15 credits

Fysik: Kandidatarbete, 15 högskolepoäng

First Cycle

Confirmation

This course syllabus was confirmed by Department of Physics on 2007-05-09 and was last revised on 2022-09-20 to be valid from 2022-09-20, autumn semester of 2022.

Field of education: Science 100%

Department: Department of Physics

Position in the educational system

In depth course in the main subject Physics. The course is given as part of the Bachelor's programme in Physics and as a freestanding course at the University of Gothenburg.

The course can be part of the following programme: 1) Bachelor of Science in Physics (N1FYS)

Main field of studies

Physics

Specialization

G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements

Entry requirements

For admission to the course, it is required that the student has completed the first five semesters in the Bachelor's programme in Physics or that the equivalent knowledge has been acquired in a different way.

Learning outcomes

After having passed the course Physics: Bachelor Thesis the student is expected to:

- have good knowledge of scientific theory, methodology and analysis methods;
- be able to apply and summarize the previously acquired knowledge within the

subject;

- have developed ability to search for information via literature databases, libraries, internet, etc., as well as to critically be able to review and assess the acquired information;
- have ability to independently analyse collected data and write a scientific report;
- be able to account for, communicate and argue for the results in front of others orally and in writing.

Course content

The project work is chosen in consultation with the supervisor and the examiner, in a field that has connection to physics. The work can be of experimental as well as theoretical nature.

Form of teaching

The course is assessed when the assignment has been carried out and been presented in writing in a report and orally at a presentation or seminar.

Language of instruction: English and Swedish

Assessment

The grade of the course is determined by the examiner and is based on the assessment of the written report and the oral presentation.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

Course evaluation

A course evaluation should be arranged after the course has ended where all participating students are given the possibility to provide anonymous feedback via a course survey. The course responsible should, together with student representatives, discuss and assess the completed survey. The result should afterwards be made available via the university learning platform.

Additional information

The supervisor and the examiner shall be two different individuals. The examiner shall be a researcher linked to the Physics Center. The supervisor can be a researcher at the Physics Center, another department or company. The Bachelor' Thesis may very well take place in the form of a project in collaboration with industry and/or university college. The work can be carried out on full or half speed. If the work takes place in a group, each student's contribution to the work should be clearly stated, preferably by each student keeping a log book.