



Faculty of Health, Science and Technology
Physics

Syllabus

Physics, Bachelor Degree Project

Course Code:	FYGC05
Course Title:	Physics, Bachelor Degree Project <i>Fysik, examensarbete kandidatnivå</i>
Credits:	15
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree proj. for B.A./B.Sc. (G2E)

Major Field of Study:
FYA (Physics)

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2018-09-13, and is valid from the Spring semester 2019 at Karlstad University.

Prerequisites

Physics 75 ECTS credits and Mathematics 45 ECTS credits, or the equivalent.

Learning Outcomes

The aim of the course is to provide a specialized conclusion to the Bachelor-level studies in Physics, in which students independently carry out an investigative science project in a chosen area.

Upon completion of the course, students should be able to:

- give an account of the scientific basis of physics, especially of specialized parts of the theories, methods and applications in a chosen subarea, as well as of some current research issues in that area,
- independently identify, formulate and solve problems and complete tasks in a project within given time limits,
- give an account of and discuss information, problems and solutions orally and in writing in a scientific manner,
- search for and collect relevant information, critically evaluate its reliability and quality, and interpret and reference it correctly,
- evaluate and critically review obtained results in relation to the scientific literature,
- make considered judgements on relevant social and ethical aspects in the chosen subarea and demonstrate insight into the potential and limitations of science, its role in society and in the responsibility for how it is used.

Content

The degree project is carried out under supervision within a specialized area of Materials Physics, Theoretical Physics or Physics Education.

Reading List

See separate document.

Examination

Assessment is based on the following mandatory thesis components: problem formulation, implementation, individually written report and oral presentation. The written report should be in Swedish or English. Reports written in English should have a title and a summary in Swedish.

Students who fail to earn a Pass grade on the first assessment after the end of the course are no longer entitled to supervision. The number of assessment opportunities is limited to five.

Grades

One of the grades Fail (U), Pass (G), or Distinction (VG) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.