



Faculty of Technology and Science  
Physics

## Syllabus

### Course Approval

The syllabus was approved by the Faculty Board of Technology and Science on 28 May 2009, and is valid from the Autumn semester of 2007 at Karlstad University.

**Course Code:** FYGC05

**Physics, Bachelor Degree Project, 15 ECTS Credits**

**(Fysik, examensarbete kandidatnivå, 15 Swedish credit points)**

**Degree Level:** Bachelor

**Progression Level:** C

### Language of Instruction

English or Swedish, contact the course coordinator for further information.

### Prerequisites

At least 75 ECTS Credits in Physics and 60 ECTS Credits in Mathematics, or the equivalent.

### Major Field of Study

Physics

## Learning Outcomes

The aim of the course is to provide a specialized conclusion to the studies in Physics on the Bachelor level, where an independent scientifically investigative approach is applied within a chosen project field.

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

- give an account of the theories, methods, and applications of physics within a chosen specialized field
- independently plan, carry out, report and present a larger project
- search for relevant scientific literature, critically evaluate its reliability and quality, summarize and reference it correctly
- evaluate and critically review the obtained results in relation to scientific literature
- give oral and written presentations in a scientific manner.

## Content and Form of Instruction

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

## Reading List

See separate document.

## Examination

Examination is in the form of a written report and a presentation of the project in a seminar.

## Grades

Either one of the grades Fail (U), Pass (G), or Distinction (VG); or, according to the alternate scale, Fail (U), Pass (3), Some Distinction (4), or Distinction (5); 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 assessment is based on student views and experiences as reported in written course evaluations and/or group discussions. Students will be informed of the result of the evaluation and of the measures to be taken.

### Course Certificate

A course certificate will be provided upon request.

### Additional Information

Students who enrolled before 1 July 2007 will complete their studies in accordance with the requirements of the earlier admission. Upon completion students may request degree and course certificates to be issued under the current ordinance if they meet its requirements.

The local regulations for studies at the Bachelor's and Master's levels at Karlstad University, ref. C2007/368, stipulate the obligations and rights of students and staff.

Karlstads universitet 651 88 Karlstad, Sweden  
Tel +46-54-700 10 00 Fax +46-54-700 14 60  
information@kau.se www.kau.se