SH1015 Applied Modern Physics 5.0 credits

Tillämpad modern 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 SH1015 valid from Autumn 2018

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Modern Physics, SH1014 or equivalent

Language of instruction

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

Intended learning outcomes

After completing this course a student should be able to:

- report on practical experience concerning experimental methods within modern physics
- apply knowledge and problem solving skills in modern physics during lab experiments and project work.
- complete a simple research project with a modern physics focus as part of a small group

Course contents

Lab. exercises where the student investigates several phenomena in modern physics

A project focusing on a research area within modern physics.

Course literature

Modern Physics, Randy Harris. Pearson / Addison-Wesley

Examination

- LAB1 - Laboratory Exercises, 2.0 credits, grading scale: P, F
- PRO1 - Project, 3.0 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

Project 3,0 hp

Lab. exercises 2,0 hp

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.