



EF2229 Project in Space Technology 15.0 credits

Projekt i rymdteknik

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 EF2229 valid from Spring 2019

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Electrical Engineering

Specific prerequisites

For single course students: 60 hp and documented proficiency in english B 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 the course you should have some practical experience of performing one or several typical tasks in the field of space technology, including data analysis and development or evaluation of measurement techniques and instrumentation, designing part of a space vehicle or investigating the effects of space environment on various systems in space. You should be able to formulate a realistic goal for a time-restricted task, plan it, follow up the execution with the help of the formulated plan, and to be able to document your work in an effective way.

Course contents

The project tasks may include

- design of a component of a satellite instrument or space vehicle system
- investigation of space environment effects on space technology
- literature search and summary of a particular field
- programming of data processing and presentation tools.

Disposition

The work will take place during one academic year. One or more tutors will be available during much of the project time, but it is essential that you are willing to work independently.

Course literature

No fixed literature. Relevant material will be distributed by tutors on a case-to-case basis.

Examination

- PRO1 - Project task 1, 7.0 credits, grading scale: P, F
- PRO2 - Project task 2, 8.0 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.

The course contains two examinations

- PRO 1 (after the first term): Written time plan, written status report and oral status report.
- PRO 2 (after the second term): Written final report.

Other requirements for final grade

Written final report.

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.