EF2225 Project in Space Physics 12.0 credits

Projekt i rymdfysik

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for EF2225 valid from Autumn 2009

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Electrical Engineering, Engineering Physics

Specific prerequisites

A genuine interest in space physics, and basic university courses in mathematics and physics.

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 physics, including data analysis and development or evaluation of measurement techniques and instrumentation. 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- Processing satellite and ground-based instrument data- Scientific analysis of satellite and ground-based data- Design of a component of a satellite instrument- Literature search and summary of a particular field - Programming of data processing and presentation tools.

Disposition

The work will take place during 6-8 weeks , typically during the summer. 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 litterature. Relevant material will be distributed by tutors on a case-to-case basis.

Examination

- PRO1 - Project, 12.0 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.

If the course is discontinued, students may request to be examined during the following two academic years.

Other requirements for final grade

Written time plan and final report, and at least one written progress 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.