

SYLLABUS

Project course: Spacecraft and Instrumentation 1 7.5 credits P7013R

Projektkurs: Rymdfarkoster och instrumentering 1

Course syllabus admitted: Autumn 2024 Sp 1 - Autumn 2024 Sp 2

**DECISION DATE
2024-02-15**

Project course: Spacecraft and Instrumentation 1 7.5 credits P7013R

Projektkurs: Rymdfarkoster och instrumentering 1

Second cycle, P7013R

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Rymdteknik	Space Technology

Main field of study

Space Technology

Entry requirements

Minimum two years of education in natural and engineering sciences at university level and at least två courses on advanced level within the specialisation (TCRYA: Space and atmospheric physics (RMRF); TMRRA: Space and atmospheric sciences(RYSP)). A project plan must be approved by the examiner prior to course registration.

Selection

The selection is based on 30-285 credits

Course Aim

The student shall acquire experience in project work in atmospheric or space physics or related fields. After the course, the student shall be able to:

- Show the ability to apply knowledge acquired in previous courses to project work.
- Show understanding of project organization and project management. This shall be shown by applying relevant tools such as time planning, resource utilization, project meetings, finances, reports and documentation of various kinds.
- Understand the risks and issues that can occur in a project due to internal and external factors.

The student shall demonstrate an understanding of different roles, gender equality and gender issues within project implementation and show insight into and ability to work in a group with heterogeneous composition.

Contents

The following contents reflect the whole project within both courses P7013R and P7015R.

Introduction to project work and evaluation of proposed projects; planning of the project; preparation of documents describing the planned project; oral and written presentation of the project plan for client of the project; organization of review process; preparation of documents for project review; oral and written presentation of the progress for the client; definition and execution of necessary testing; realization of the project; analysis and presentation of results and report.

During the course of the project, gender equality issues shall be considered.

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

Students will work in teams. Large teams are to be divided into sub-teams with their own student leads. The minimum number of students in a project is three (3). At least one student acts as project manager and is responsible for implementing the project. The project team will plan and conduct the project, including necessary tests and analysis. Internal project meetings shall be conducted regularly, including additional meetings with supervisors and external partners, when applicable.

Students shall seek cooperation with reference groups in research and industry, where applicable.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.

The examination is based on active participation in the project meetings, project work, and the review processes.

The course contains reports and at least one review process.

The final grade is based on the performance in all parts of the project.

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

The course is part one of two courses. Participation in part two "Project course: Spacecraft and Instrumentation 2" is mandatory.

Course offered by

Department of Computer Science, Electrical and Space Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0005	Progress and review meetings	G U 3 4 5	3	Mandatory	A24	
0006	Project work and reports	G U 3 4 5	4.5	Mandatory	A24	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Last revised

by Robert Brännström 2024-02-15

Syllabus established

by Jonny Johansson, HUL SRT 2019-02-15