

SYLLABUS

Introduction to satellite technology 7.5 credits R7022R

Introduktion till satellitteknik

Course syllabus admitted: Autumn 2016 Sp 1 - Present

**DECISION DATE
2016-02-15**

Introduction to satellite technology 7.5 credits R7022R

Introduktion till satellitteknik

Second cycle, R7022R

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

Entry requirements

Basic physics and mathematics courses

Selection

The selection is based on 30-285 credits

Examiner

Anita Enmark

Course Aim

Aim of the course is to provide an introduction into satellite technique. After finishing the course the student is expected to:

- Understand the satellites and spacecrafts sub-systems and their relationship with respect to each other and with respect to the aim of the space mission.
- provide a deeper analysis for at least one selected space project
- Show the capability to compare different missions and the ability to analyse how the payload and the missions goal affect the design of the platform.

Contents

Satellite subsystems, orbis and orbit elements. Fields of applications and payloads for satellites and other spacecraft.

Realization

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

Lessons and labs. obligatory elements can be part of the course

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. Written exam and project work

Literature. Valid from Autumn 2015 Sp 1

Not yet decided.

Course offered by

Department of Computer Science, Electrical and Space Engineering

Items/credits

| Number | Type | Credits | Grade |
|--------|--------------|---------|-----------|
| 0001 | Written exam | 5 | G U 3 4 5 |
| 0002 | Project work | 2.5 | U G# |

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 Jonny Johansson, HUL SRT 2016-02-15

Syllabus established

by Jonny Johansson, HUL SRT 2015-02-16