

**SYLLABUS**

**STUDY YEAR 2015/2016**

# **Master Programme in Spacecraft Design**

## **Enrollment semester Autumn 2015**

**DATE**

**2015-03-31**

**DECISION MAKER**

**Director of Education and Research**

## Programme content and structure

For the master degree in Spacecraft Design (120 Hp) the following courses are required: compulsory courses (90 Hp) and master thesis - space technology (30 Hp). Practice during study time is recommended but is not compulsory.

For admission to the degree project course entry requirements specified in the Course Syllabus must be completed. Information regarding the application- and admission process is given and ensured by the responsible department.

Swedish for beginners is offered for overseas students. The course is not included in the degree, and is read in addition to the obligatory courses.

## Credits

120 credits

## Degree

- Degree of Master of Science (120 credits) - Major; Space Technology with specialisation Spacecraft Design

## Entry requirements

Successful completion of a basic engineering program or a Bachelor's degree with a minimum of 180 ECTS in the areas of space technology, aerospace, aeronautics, mechatronics, space physics, physics, electronics, mechanics, computer science or equivalent. Course work at university level must include electronics or mechanics, and a minimum of 22.5 ECTS in mathematics at university level is required.

Documented skills in English language.

## Selection

The selection procedure is based on academic qualifications, quality and quantity aspects

### Selection group

Academic: 100%

## Compulsory courses

### Compulsory courses 120 credits

Course code	Course	Cr	Level	Comment
E7001R	Electronics in Space	7.5	Master's level	
P7003R	Master Thesis - Space Technology	30	Master's level	
P7011R	Spacecraft Instrument Project	15	Master's level	
P7012R	Spacecraft Design Project	7.5	Master's level	
R0008R	Introduction to space mechanics and electronics	7.5	Bachelor's level	
R7004R	Spacecraft Environment Interactions	7.5	Master's level	
R7013R	Space Instruments	7.5	Master's level	
R7016R	Space flight attitude dynamics	7.5	Master's level	
R7018R	Spacecraft on board datahandling	7.5	Master's level	
R7019R	Spacecraft Subsystems	7.5	Master's level	
R7020R	Spacecraft Design	7.5	Master's level	
R7021R	Space Communication	7.5	Master's level	

### Course offered outside the obligatory courses - not compulsory - For non Scandinavian students

Course code	Course	Cr	Level	Comment
S0046P	Swedish for International Students 1	3	Bachelor's level	Selectable