SYLLABUS

Master Thesis Space Technology 15 credits P7002R

Examensarbete Rymdteknik magister

Course syllabus admitted: Spring 2014 Sp 3 - Present

DECISION DATE
2013-11-08

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LULEÅ TEKNISKA UNIVERSITET

Master Thesis Space Technology 15 credits P7002R

Examensarbete Rymdteknik magister

Second cycle, P7002R

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

Entry requirements

All basic courses and core courses must be completed. The student must have completed all courses relevant for the topic of the Master Thesis.

Selection

The selection is based on 30-285 credits

Examiner

Individual examiner appointed.

Course Aim

The overall goal is for students to practice, develop and demonstrate the skills to properly apply the theories and methods to solve unstructured problems that are relevant to an occupation as a civil engineer in aerospace.

This means that the student after the course shall be able to:

- formulate a relevant problem based on a chosen topic in one of the subject areas space technology, space physics, atmospheric physics, and aeronautics,
- apply knowledge and skills acquired during their studies for a complex investigation and development or small research project in an independent and systematic way,
- select and motivate methodology of the study with a clear understanding of the effect the selection has on the results of the study,
- without complete information in an engineering and scientific properly analyze and answer the formulated problem,
- identify and critically evaluate information and summarize it in a scientific manner.
- plan and structure the research, development or research work,
- assess the scientific and practical relevance of the results obtained
- work after schedule,
- express him-/herselfes well in writing in a linguistically and scientifically sound manner,
- develop and implement a presentation, where the findings and conclusions are presented and defended.

Contents

The content of the thesis is developed in dialogue with the supervisor. The thesis always contains a theoretical structure in the form of a literature review that highlights the area of technology and methodology, summarized in a scientific manner.

Realization

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

The student plan and carry out independent thesis work with tutor support. A timetable for the project shall be designed and monitored regularly. Teaching takes the form of tutoring. As preparation for the oral presentation the student shall attend two and oppose on one oral presentation of another students degree project.

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 student shall orally present and defend the work.

In the report shall the student demonstrate ability to:

- justify the chosen problem
- select and justify the methodology of the study with a clear understanding of the effect the selection has on the results of the study
- with a clear connection to the selected theory / method, collect information relevant to the problem statement
- in a relevant way in writing present the collected information
- from chosen theory / method correctly analyze and answer the formulated problem
- with a critical approach assess the engineering and scientific relevance of the results obtained
- express him-/herselfes well in writing in a linguistically and scientifically sound manner

Remarks

The Department provides active supervision during two semesters of the course.The thesis is preferably carried out individually and only rarely with maximum two participating students. In cases where the thesis work is carried out by two students should this be visible in the report’s scope and depth.

Literature. Valid from Autumn 2012 Sp 1

Directions for degree project in the space technology division.

Course offered by

Department of Computer Science, Electrical and Space Engineering

Items/credits

Number	Type	Credits	Grade
0001	Thesis commenced	0	U G#
0002	Thesis completed	15	U G#

Last revised

by Jonny Johansson, Director of Undergraduate Studies at the Department of Computer Science, Electrical and Space Engineering 2013-11-08

Syllabus established

The course plan was accepted by the Dept of Space Science 2007-02-28 and remains valid as from H07.