

**SYLLABUS**

# **Mathematics C - Thesis 15 credits M0035M**

**Matematik C - uppsats**

**Course syllabus admitted: Autumn 2007 Sp 1 - Spring 2010 Sp 4**

DECISION

**This syllabus is valid from H07 (Autumn 2007).**

# Mathematics C - Thesis 15 credits M0035M

## Matematik C - uppsats

### First cycle, M0035M

| Education level | Grade scale    | Subject   | Subject group (SCB) |
|-----------------|----------------|-----------|---------------------|
| First cycle     | 6 U G VG 3 4 5 | Matematik | Mathematics         |

## Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and M0037M or corresponding courses.

## Selection

The selection is based on 1-165 credits.

## Examiner

Thomas Gunnarsson

## Course Aim

The aims of the course are

- to give deeper knowledge and skills in some central mathematical theories and concepts and practical training in independent work in mathematics,
- to give the basis for further studies in mathematics, both in the form of courses and in the form of independent studies in mathematics in subjects where knowledge in mathematics is used,
- to give a deeper insight in such areas of mathematics that are needed for independent application of mathematical tool,
- to give such deeper knowledge that promotes the teaching and learning of mathematics in secondary schools (gymnasium).

## Contents

For a deeper study a topic for the special examination work is chosen. For example: linear algebra, mechanical systems, variational calculus, stochastic processes, ergodic theory and information theory, history of mathematics, didactics of mathematics.

The topic should be chosen in cooperation with the examiner.

M0037M or a corresponding course should be passed before the work with the essay is begun. The essay shall be presented at a seminar.

## Realization

Supervision of the work with the essay.

## Examination

An essay that shall be presented at a public seminar.

## Overlap

The course M0035M is equal to MAM616, M0034M

## Literature. Valid from Autumn 2007 Sp 1

Individual

## Course offered by

Department of Engineering Sciences and Mathematics

## Items/credits

| Number | Type  | Credits | Grade          |
|--------|-------|---------|----------------|
| 0001   | Essay | 15      | 6 U G VG 3 4 5 |

## Syllabus established

This syllabus is valid from H07 (Autumn 2007).