Algebra, General Course 7.5 credits M7008M

Algebra, allmän kurs

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

DECISION

This syllabus is valid from H07 (Autumn 2007).

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Algebra, General Course 7.5 credits M7008M

Algebra, allmän kurs

Second cycle, M7008M

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

Entry requirements

A first course in abstract algebra. M7021M or corresponding courses.

Selection

The selection is based on 30-285 credits

Examiner

Thomas Gunnarsson

Course Aim

The course aims to give the basics algebra that occurs in all mathematics: topology, partial differential equations, differential geometry , algebraic geometry, analysis and representation theory as well as in algebra, number theory etc.

Contents

Basic algebraic notions, algebraic equations, linear equations and representations, homological algebra, computer algebra.

Realization

This is mainly a reading course. The teaching can alternatively consist of seminars, self study, handin problems, project or computer laborations.

Examination

Handin problems and oral examination. Written examination may accur. The course can be given in both a 5 credit and a 10 credit variant.

Overlap

The course M7008M is equal to MAM070

Literature. Valid from Autumn 2007 Sp 1

S.Lang: Algebra. 3:rd edition or later., Addison-Wesley or Sptinger Verlag.

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Course offered by

Department of Engineering Sciences and Mathematics

Items/credits

Number	Type	Credits	Grade
0001	Written exam	7.5	6 U G VG 3 4 5

Syllabus established

This syllabus is valid from H07 (Autumn 2007).

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