LUND
UNIVERSITY

Faculty of Science

MATM23, Mathematics: Specialised Course in Differential Geometry, 7.5 credits

Matematik: Fördjupningskurs till differentialgeometri, 7,5 högskolepoäng

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2007-03-01 to be valid from 2007-07-01, autumn semester 2007.

General Information

The course is an elective course for second-cycle studies for a Degree of Master of Science (120 credits) in mathematics.

Language of instruction: Swedish and English

Main field of studies	Depth of study relative to the degree requirements
Mathematics	A1F, Second cycle, has second-cycle course/s as entry requirements

Learning outcomes

The aim of the course is that the student on completion of the course should:

- have developed the ability to communicate mathematics in speech and writing,
- have acquired advanced knowledge in a speciality of the differential geometry.

Course content

The course constitutes a specialisation and extension of the course Differential geometry. Its contents are specified by the lecturer in consultation with the students. The course can e.g. treat one of the following fields:
 (i) Riemannian geometry

(ii) Differential forms

Course design

The teaching consists of lectures and seminars. Compulsory assignments may occur during the course.

Assessment

The examination consists of a written and/or oral examination. Students who fail the ordinary written examination are offered a resit examination shortly thereafter.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass, Pass with distinction.

Entry requirements

For admission to the course, English B is required as well as at least 67.5 credits in pure mathematics in which should be included the course MATM13 Differential geometry, 7.5 credits.

Further information

The course may not be included in a degree together with MAT323 Advanced course to Differential geometry, 5 credits.

Subcourses in MATM23, Mathematics: Specialised Course in Differential Geometry

Applies from V08

0701   Exam, 7,5 hp
       Grading scale: Fail, Pass, Pass with distinction