Faculty of Science

MATP11, Mathematics: Distribution Theory, 7.5 credits
Matematik: Distributionsteori, 7,5 högskolepoäng
Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2007-05-10 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: English and Swedish

Main field of studies	Depth of study relative to the degree requirements
Mathematics	A1N, Second cycle, has only first-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 be familiar with basic concepts and methods within distribution theory have acquired basic knowledge for continued studies in distribution theory.

Course content

The foundations of distribution theory. Test functions, the concept of a distribution, distributions with compact support, operations on distributions, convolution, homogeneous distributions and the Fourier transform.

Course design

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

Assessment

The examination consists of a written exam followed by an oral exam. The oral exam is given only to those who passed the written exam. For students who did not pass the regular exam, an additional exam is offered shortly afterwards.

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 and at least 75 credits in mathematics, including the equivalent of MATC11 Analytical functions, 15 credits, are required.

Further information

The course may not be included in a higher education qualification together with the course MAT411 Distribution theory 5 p.

Subcourses in MATP11, Mathematics: Distribution Theory

Applies from V10

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