



APPLIES TO ACADEMIC YEAR 2003/2004

MET 2210 Mathematics

Program

Master of Business and Economics Program

Responsible for the course

Tron Foss

Department

Economics

Term

According to study plan

ECTS Credits

9

Objective

The purpose of the course is to provide the students with mathematical knowledge and insight that will enable them to better understand and work on subjects related to business management.

Prerequisites

The course is based on mathematical knowledge corresponding to minimum two years of mathematics of the Upper Secondary School

Compulsory literature

Bjørnestad, Harald, Ulf H. Olsson, Svein Søyland og Frank Tolsciner. 2001. *Matematikk for økonomi og samfunnsfag*. 5.utg. Kristiansand: Høyskoleforlaget.

Foss, Tron. 2002. *Eksamensoppgavesamling med løsningsforslag i matematikk for siviløkonomstudiet*. Sandvika: Handelshøyskolen BI.

Recommended literature

Bjørnestad, Harald, Ulf H. Olsson, Svein Søyland og Frank Tolsciner. 2001. *Matematikk for økonomi og samfunnsfag: Løsningsforslag*. Kristiansand: Høyskoleforlaget

Course outline

Basic subjects (Chapter 1)

Functions of real variables (Chapter 2)

Derivations with applications (Chapter 3)

Exponential and logarithmic functions (Chapter 4)

Series and applications to financial mathematics (Chapter 6.1-6.5)

Integration's (Chapter 7)

Functions of multiple variables (Chapter 8)

Linear algebra (matrixes and determinants) (Chapter 9.1-9.5)

Chapters 1,2 and 3 will be taught in the preparatory course.

Computer-based tools

Computer-based tools are not used.

Course structure

The course is based on 56 teaching hours of lectures (14 weeks). In addition 28 hours (14 weeks) of problemsolving.

Evaluation

A five-hour written examination completes the course.

Evaluation code(s)

MET 22101 - written exam, which accounts for 100% of the grade in MET 2210, 9 credits.

Aids at the examination

All aids are allowed.

Makeup exam

At the same time as the ordinary exams (next year).