



APPLIES TO ACADEMIC YEAR 2004/2005

MET 2410 Mathematics

Program

Bachelor of Science in Business (1. year)

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

Bjørnstad, Harald, Ulf H. Olsson, Svein Søyland og Frank Tolsciner. 2004. *Matematikk for økonomi og samfunnsfag*. 6.utg. Kristiansand: Høyskoleforlaget.

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

Recommended literature

Bjørnstad, Harald, Ulf H. Olsson, Svein Søyland og Frank Tolsciner. 2004. *Matematikk for økonomi og samfunnsfag: Løsningsforslag*. 6.utg. 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 5.1-5.5)
Integration's (Chapter 6)
Functions of multiple variables (Chapter 7)
Linear algebra (matrixes and determinants) (Chapter 8.1-8.5)
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 organized over two terms with two parts.

- MET2411 Mathematics - Fall
- MET 2412 Mathematics - Spring

Fall term: The course is based on 30 teaching hours of lectures (10 weeks). In addition 20 hours (10 weeks) of problemsolving.

Spring term The course is based on 24 teaching hours of lectures (8 weeks). In addition 16 hours (8 weeks) of problemsolving.

Evaluation

A Three-hour individual Multiple Choice exam at the end of the fall term in the first part of the

syllabus.

A five-hour individual written examination at the end of the spring term in the hole syllabus.

Evaluation code(s)

MET 24101 Mathematics - Multiple Choice at the end of fall term, which accounts for 30% of the total grade in MET 2410 Mathematics, 9 credits.

MET 24102 Mathematics - Written exam at the end og spring term, which account for 70% of the total grade in MET 2410 Mathematics, 9 credits.

Both exams must be passed with the grade E or bether to get the final grade in the course.

Aids at the examination

All aids are allowed.

Makeup exam

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