



APPLIES TO ACADEMIC YEAR 2005/2006

MET 2591 Mathematics

Program

Bachelor in Auditing (1. year), Bachelor in Business and Finance (1. year), Bachelor in Business Journalism (1. year), Bachelor in Business Law (1. year), Bachelor in IT-management (1. year), Bachelor in Real Estate (1. year), Bachelor of Business Administration (1. year), Bachelor of Science in Marketing (1. year), Foundation Program in Business Administration

Responsible for the course

Pål Lauritzen

Department

Economics

Term

According to study plan

ECTS Credits

6

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 the basic course in mathematics of the Upper Secondary School. However, we recommend students who have no further knowledge of the subject than this to attend a preparatory course in mathematics.

Compulsory literature

Books:

Bjørnstad, Harald et al. 2004. Matematikk for økonomi og samfunnsfag. 6.utg. Kristiansand: Høyskoleforlaget

Recommended literature

Books:

Bjørnstad, Harald et al. 2004. Matematikk for økonomi og samfunnsfag: Løsningsforslag. 6.utg. Kristiansand: Høyskoleforlaget
Foss, Tron. 2002. Eksamensoppgavesamling med løsningsforslag i matematikk for bedriftsøkonomer. Sandvika: BI Forlag

Course outline

- Derivation with applications
- Elasticities
- Exponential functions and logarithmic functions
- Series and financial mathematics
- Functions of multiple variables
- Optimizing techniques
- Constrained optimization
- Lagrange multipliers
- Integration

Computer-based tools

Computer-based tools are not used.

Course structure

The course is based on 56 teaching hours of lectures which deal with important parts of the syllabus and 12 hours of problemsolving. Two compulsory assignments must be completed during the course. Both assignments must be passed in order to obtain final grade in the course. In addition to studying the textbooks, it is essential that students do exercises related

to the syllabus. Students are also recommended to form study groups of 3 - 5 persons for the purpose of mutual help and support.

Evaluation

Two individual assignments that must be passed, and a five-hour individual written examination concludes the course. The two individual assignments will be graded passed/failed and the written exam will be given ordinary grade.

Evaluation code(s)

MET 25911 - Assignment 1, passed/failed.

MET 25912 - Assignment 2, passed/failed.

MET 25913 - Written examination, counts for 100% to obtain final grade in MET 2591 Mathematics, 6 credits.

Aids at the examination

All aids are allowed.

Makeup exam

A makeup exam is held in every term.