



APPLIES TO ACADEMIC YEAR 2004/2005

MET 9100 Mathematics

Program

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

Responsible for the course

Tron Foss

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

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

Recommended literature

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

Foss, Tron. 2003. *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 54 teaching hours of lectures which deal with important parts of the syllabus and 12 hours of problemsolving. 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

A five-hour individual written examination concludes the course.

Evaluation code(s)

MET 91001 - written exam, which accounts for 100% of the grade in MET 9100 Mathematics, 6 ECTS credits.

Aids at the examination

All aids are allowed.

Makeup exam

A makeup exam is held in every term.