MET 2610 Mathematics

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

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

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

Recommended literature
Books:
Bjørnestad, Harald et al.. 2004. Matematikk for økonomi og samfunnsfag: Løsningsforslag. 6. utg. Kristiansand: Høyskoleforlaget
Foss, Tron. 2005. Eksamensoppgavesamling med løsningsforslag i matematikk for bedriftsøkonomer. Oslo: BI Forlag

Course outline
- Basic algebra
- The concept of funtion, Functions with one variable
- Derivation with applications, Elasticities
- Exponential functions and logarithmic functions
- Series and financial mathematics
- Integration
- Functions of multiple variables
- Optimizing techniques
- Constrained optimization, Lagrange multipliers

Computer-based tools
Computer-based tools are not used

Course structure
The duration of the course is one year. The course is based on 84 teaching hours of lectures, 42 hours in each semester, which deal with important parts of the syllabus. Two compulsory assignments, one each semester, must be completed during the course. The students have 14 days to work with each of the assignments. 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
The evaluation consits of four components: Two individual assignments that must be passed, a three-hour multiple choice exam after the first semester and a four-hour individual written examination concludes the course. The two individual assignments will be graded passed/failed. The multiple choice exam and the final written excam will be given ordinary grades. The multiple choice exam is weighted 20% and the final exam 80% in the final grade. The students can redo each component separately.

Evaluation code(s)
MET 26101 - Assignment 1, graded passed/failed.
MET 26102 - Multiple Choice exam, counts 20% to obtain final grade in MET 2610 Mathematics, 6 credits.
MET 26103 - Assignment 2, graded passed/failed.
MET 26104 - Written exam, counts 80% to obtain final grade in MET 2610 Mathematics, 6 credits.

Aids at the examination
No aids are allowed at the multiple choice exam
All aids are allowed at the final written exam

Makeup exam
A makeup exam is held in every term