



APPLIES TO ACADEMIC YEAR 2011/2012

EXC 2610 Mathematics - RE-SIT EXAM

Programme

Re-sit examination

Responsible for the course

Pål Lauritzen

Department

Department of Economics

Term

According to study plan

ECTS Credits

6

Language of instruction

English

Introduction

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 reading

Books:

Sydsæter, Knut and Peter Hammond. 2008. Essential mathematics for economic analysis. 3rd ed. Harlow : Prentice Hall

Recommended reading

Books:

Lauritzen, Pål. 2007. Using the Texas Instruments BA II Plus : including practical examples for students at BI. Oslo : Cappelen

Course outline

- Basic algebra
- The concept of function, 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.

Examination

The evaluation consists 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 exam 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.

Examination code(s)

EXC 26101 - Assignment, graded passed/failed.

EXC 26102 - Multiple Choice exam, counts 20% to obtain final grade in EXC 2610

Mathematics, 6 credits.

EXC 26103 - Assignment, graded passed/failed.

EXC 26104 - Written exam, counts 80% to obtain final grade in EXC 2610 Mathematics, 6 credits.

Examination support materials

No aids are allowed at the multiple choice exam.

All aids + calculator TEXAS INSTRUMENTS BA II Plus™ are allowed at the final written exam.

Exam aids at written examinations are explained under exam information in our web-based Student handbook. Please note use of calculator and dictionary.

<http://www.bi.edu/studenthandbook/examaids>

Re-sit examination

Due to changes in our Bachelor Programmes from autumn 2009, there will also be changes in every single course. This course was lectured for the last time in the academic year 2008/2009. A re-sit exam will be offered every term from autumn 2009 up to and including spring 2012.

Additional information