APPLIES TO ACADEMIC YEAR 2010/2011

MET 2600 Mathematical Analysis - MAKEUP EXAM

Programme
Makeup exams

Responsible for the course

Department
Department of Economics

Term
According to study plan

ECTS Credits
6

Language of instruction
Norwegian

Introduction

Objective
Through training to develop the necessary skills in mathematics and linear algebra that is required in advanced courses in financial theory and economics at the bachelor and masters level. Very important in this regard is skills in building and analyzing mathematical models.

Prerequisites
MET 2610 or MET 2591or MET 9100, or equivalent.

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

Recommended reading

Course outline
Topics covered during the lecture series, references to Sydsæter et. al::

1. Optimizing functions of several variabels	chapter 13.1 - 13.6
2. Constrained optimization (general Lagrange)	chapter 14.1-14.4, 14.6, 14.7
3. Implicit given functions and derivation	chapter 7.1,7.2, 12.1-12.3
4. Differentials. Linear and polynomial approximations	chapter 7.4, 7.5, 12.8, 12.9
5. Elasticities	chapter 7,7, 11.8
6. Homogeneous functions	chapter 12.6
7. Nonlinear programming	chapter 14.8, 14.9
8. Systems of equations	chapter 12.10, 15.1
9. Gauss' method of elimination for linear equation systems	chapter 15.6
10. Matrix algebra	chapter 15.1 - 15.5, 15.7
11, Determinants and inverse matrices	chapter 16.1 - 16.8

Computer-based tools
No computer-based tools are used in this course.

Course structure
The course is taught over 42 class-room hours; 36 hours of lecturing and 6 hours of tutoring. Homeassignment exercises highlighting and demonstrating theory are used extensively throughout the

lecture series. Coming to class prepared is thus regarded very important.

Examination
The grade in the course will be based on a five (5) hours individual written exam, counts 100%.

Examination code(s)
MET 26001 - Written exam counts 100% of the final grade in MET 2600 Mathematical Analysis, 6 ECTS credits.

Examination support materials
Interest rate tables and BI-approved exam calculator are allowed.

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
Re-sit exam will be offered every term from autumn 2010 up to and even spring 2012.

Additional information
Due to changes in our Bachelor Programmes from autumn 2009, there also will be changes in every single course. This course was lectured for the last time spring 2010. Re-sit exam will be offered every term up to and even spring 2012.