BM02: Mathematics II				**Study Programme:**	B
Module Type:	**ECTS Credits:**	**Workload:**	**Study semester:**	**Module Duration:**	
Compulsory	3	90	2.	one semester	

Courses (HPW=hours per week):	**Contact hours:**	**Indepen-dent study:**	**Planned Group Size:**
Course 1: Mathematics II (2 HPW)	30h	25h	310
Course 2: Mathematics II - Tutorial (2 HPW) Group events *It will be offered several groups for course 2.*	15h	20h	2 x 150

Intended Learning Outcomes (ILOs):

By the end of the module, students will be able to

- explain fundamental conceptualisation and concepts of Analysis (consistency, differentiability, monotony, limits etc.)
- adopt mathematic calculations as differential and integral calculus,
- analyse mathematical models or problems with elementary instruments of real Analysis of one or various variables.

Key competencies:

- Academic research and writing
- Critical thinking
- Analytical skills
- Willingness to learn and accomplish

Description/Contents:

Course 1: Mathematics II

1. Basic terms: Analysis
2. Differentiation
3. Application of differential calculus
4. Integration
5. Functions of several variables

Course 2: Mathematics II – Tutorial

Cf. contents of course 1.

Language:

The language of the module is German.

Teaching Methods:

Lectures, group work, self-study.

Module Applicability:

B.Sc. Business Administration; B.Sc. Economics.

Pre-requisites/Requirements:

Admission to study Business Administration or Economics for a Bachelor’s degree.
Examination Types:
Comprehensive examination in the form of a written exam at the end of the summer semester (90 min).
Requirements for Award of Credit Points:
Successful participation in the exam. The exam will be passed if the grade is at least „sufficient“ (4,0Requirement for a successful participation in the exams is the regular, self-reliant processing of homework in which a certain proportion has to be solved correctly. The person responsible determines the proportion in the beginning of the course.
Availability:
The module will be offered generally each summer term.
Assessment:
This course will be graded and is part of the calculation for the overall grade of your bachelor degree. Particular information concerning the calculation of the overall grade can be gathered in the respective examination regulations.
Person Responsible and Main Lecturer:
PD. Dr. Axel Grünrock and teaching/research assistants.
Further Information:
Further information can be found at the website of the person responsible as ILIAS and HIS-LSF.

Stand: 12.01.2018