Basic Notions and Methods of Mathematical Reasoning

Module description

Module title
Basic Notions and Methods of Mathematical Reasoning

Abbreviation
10-M-GBM-152-m01

Module coordinator
Dean of Studies Mathematik (Mathematics)

Module offered by
Institute of Mathematics

ECTS
2

Method of grading
(only after succ. compl. of module(s))

Duration
(n0t) successfully completed

Module level
undergraduate

Other prerequisites

Contents

Introduction to the basic notions and proof techniques in mathematics: approach to sets, formal logic and maps.

Intended learning outcomes

The student gets acquainted with the basic working techniques which are prerequisites for the further courses in the Bachelor’s degree study programme.

Courses

(type, number of weekly contact hours, language — if other than German)

V (1) + Ü (1)

Method of assessment

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

project (10 to 15 pages)

Language of assessment: German and/or English

Allocation of places

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Additional information

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Referred to in LPO I
(examination regulations for teaching-degree programmes)

§ 22 II Nr. 1 h)
§ 22 II Nr. 2 f)

Module appears in

Bachelor’ degree (1 major) Mathematics (2015)
Bachelor’ degree (1 major) Economathematics (2015)
Bachelor’ degree (1 major) Mathematical Physics (2015)
Bachelor’ degree (1 major) Computational Mathematics (2015)
First state examination for the teaching degree Grundschule Mathematics (2015)
First state examination for the teaching degree Realschule Mathematics (2015)
First state examination for the teaching degree Mittelschule Mathematics (2015)
Bachelor’ degree (1 major) Mathematical Physics (2016)
Bachelor’ degree (1 major) Economathematics (2017)