Module title			Abbreviation
Basic Notions and Methods of Mathematical Reasoning			10-M-GBM-152-m01

Module coordinator	Module offered by
Dean of Studies Mathematik (Mathematics)	Institute of Mathematics

ECTS	Method of grading	Only after succ. compl. of module(s)
2	(not) successfully completed	--

Duration	Module level	Other prerequisites
1 semester	undergraduate	--

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

Additional information on module duration: block taught prior to the beginning of the lecture period.

Workload

60 h

Teaching cycle

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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's degree (1 major) Mathematics (2015)
Bachelor's degree (1 major) Economathematics (2015)
Bachelor's degree (1 major) Mathematical Physics (2015)
Bachelor's 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's degree (1 major) Mathematical Physics (2016)
Teaching degree Grundschule Erweiterung Mathematics (2015)
Teaching degree Realschule Erweiterung Mathematics (2015)
Teaching degree Sonderpädagogik Erweiterung Mathematics (2015)
Bachelor's degree (1 major) Economathematics (2017)
Module studies (Bachelor) Orientierungsstudien (2020)
First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

Bachelor's degree (1 major) Mathematical Physics (2020)
Bachelor's degree (1 major) Economathematics (2021)
Bachelor's degree (1 major) Economathematics (2022)
Bachelor's degree (1 major) Mathematical Data Science (2022)
Exchange Program Mathematics (2023)
Bachelor's degree (1 major) Mathematics (2023)
Bachelor's degree (1 major) Economathematics (2023)
Bachelor's degree (1 major) Mathematical Physics (2024)
Bachelor's degree (1 major) Economathematics (2024)
Bachelor's degree (1 major) Economathematics (2025)
Teaching degree Realschule Erweiterung Mathematics (2015 Erweiterungsfach)
Teaching degree Grundschule Erweiterung Mathematics (2015 Erweiterungsfach)
Bachelor's degree (1 major) Economathematics (2026)
Bachelor's degree (1 major) Mathematical Physics (2026)