<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<tr>
<td>Introduction into Mathematical Thinking and Working for Teaching Degree (German Gymnasium)</td>
<td>10-M-MDAL-152-m01</td>
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**Module coordinator**

Dean of Studies Mathematik (Mathematics)

**Module offered by**

Institute of Mathematics

**ECTS**

5

**Method of grading**

Only after succ. compl. of module(s)

**Duration**

undergraduate

**Other prerequisites**

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**Contents**

Logical foundations of mathematical proofs, in particular axiomatic and deduction; basic concepts in mathematics, e. g. sets and functions; basic techniques and methods for proving; mathematical writing.

**Intended learning outcomes**

The student is acquainted with the basic proof methods and techniques in mathematics. He/She is able to perform easy mathematical arguments independently and present them adequately and reasonably in written and oral form.

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

V (1) + Ü (1) + 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)

§73 I Nr. 2 (1 ECTS credits)

§73 I Nr. 3 (2 ECTS credits)

§73 I Nr. 5 (2 ECTS credits)

**Module appears in**

First state examination for the teaching degree Gymnasium Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2019)