

<b>Module title</b>		<b>Abbreviation</b>
Introduction into Mathematical Thinking and Working for Teaching Degree (German Gymnasium)		10-M-MDAL-152-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	(not) successfully completed	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
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.		
<b>Intended learning outcomes</b>		
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.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (1) + Ü (1) + V (1) + Ü (1)		
<b>Method of assessment</b> (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		
<b>Allocation of places</b>		
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<b>Additional information</b>		
Additional information on module duration: includes block taught sessions prior to the beginning of the lecture period.		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (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)		
<b>Module appears in</b>		
First state examination for the teaching degree Gymnasium Mathematics (2015) First state examination for the teaching degree Gymnasium Mathematics (2019) First state examination for the teaching degree Gymnasium Mathematics (2023)		