

Module title		Abbreviation
Didactics of Mathematics - Geometry (German Grundschule)		10-M-DGGS1-152-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)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
In-depth discussion of topics in teaching geometry in Grundschule, taking didactic aspects into account (aims of geometry, spatial visualisation ability, planar figures, symmetries, 3-dimensional solids, geometric drawing). Possibilities of implementation in the classroom and employment of materials and media, including modern technologies.		
Intended learning outcomes		
The student knows about the objectives of teaching geometry in elementary school, basics in developmental psychology and didactics of mathematics, fundamentals in elementary school mathematics, as well as important models, presentations and media which can be employed in elementary school teaching of mathematics. She/he knows about common difficulties and problems of pupils in the acquisition of mathematical skills, and can employ and assess didactical principles and teaching and learning strategies.		
Courses (type, number of weekly contact hours, language – if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 to 90 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 51 I Nr. 4		
Module appears in		
First state examination for the teaching degree Grundschule Mathematics (2015) exchange program Mathematics (2023)		