

Module title		Abbreviation
Basics of Mathematics für German Grundschule 1: Arithmetics and Orders of Magnitude (virtual course)		10-M-VHBAuG-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		
Fundamental topics in teaching arithmetics in Grundschule, e. g. positional notation, elementary arithmetics, arithmetic laws, divisibility. Additional selected topics in application-oriented mathematics on the quantities covered in Grundschule.		
Intended learning outcomes		
The students know the subject-related contents in arithmetic in elementary school, and are able to structure the notions and methods within a conceptual map. They know the subject-related contents in application-oriented mathematics related to quantities, and are able to structure the notions and methods within a conceptual map. They know strategies for development of understanding of the central notions of arithmetic in elementary school. They are able to assess and value the importance of digital technology with respect to today's and future design of instruction. They know various fields of application of arithmetic concepts, and are able to perform modelling independently.		
Courses (type, number of weekly contact hours, language – if other than German)		
Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)		
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 (web-based, 15 to 20 hours) Assessment offered: Once a year, winter semester		
Allocation of places		
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Additional information		
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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)		
Module appears in		
First state examination for the teaching degree Grundschule Mathematics (2015) First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015)) exchange program Mathematics (2023)		

