

<b>Module title</b>		<b>Abbreviation</b>
Didactics of Geometry (virtual course)		10-M-VHBDG-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>
2	(not) successfully completed	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
<p>Geometry didactics is about learning and teaching geometry. This course focuses on topics which are central and important for all of geometry and mathematics, namely proving and problem solving. It also addresses topics which are usually discussed only briefly or not at all in university lectures and in the literature. Among these are chapters on space geometry, trigonometry and similarity geometry.</p>		
<b>Intended learning outcomes</b>		
<p>The students are acquainted with the subject-specific contents of school geometry, and are able to structure the notions and methods within a conceptual map. They know strategies of short, middle and long term development of understanding of the central concepts of geometry in teaching mathematics. They are able to develop and justify learning units and learning sequences for the important topics in school geometry independently. 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 geometric concepts, and are able to perform modelling (in the sense of modelling cycles) independently.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)		
<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 (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
60 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
§ 22 II Nr. 1 h) § 22 II Nr. 2 f) § 22 II Nr. 3 f)		
<b>Module appears in</b>		
<p>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 Realschule Mathematics (2015)            First state examination for the teaching degree Gymnasium Mathematics (2015)            First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015)</p>		

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)  
First state examination for the teaching degree Mittelschule Mathematics (2015)  
First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)  
First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))  
First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))  
First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))  
First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))  
exchange program Mathematics (2023)