

<b>Module title</b>		<b>Abbreviation</b>
Analytic Geometry (virtual course)		10-M-VHBAng-191-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>
3	(not) successfully completed	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
The module gives a brief introduction to the history of geometry, discusses analytic geometry in Euclidean vector spaces (including Hessian normal forms) and finishes with the analysis and classification of quadrics.		
<b>Intended learning outcomes</b>		
The students gain an overview over the development of geometry and learn to translate geometric problems to the language of linear algebra. They consolidate certain aspects of linear algebra by applying them to geometric questions. Moreover, the course is suitable for preparation for the final state exam.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
Ü (2)		
<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 Other: E-Learning, Vhb		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
90 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. 3 f)		
<b>Module appears in</b>		
First state examination for the teaching degree Gymnasium Mathematics (2019)		