

<b>Module title</b>		<b>Abbreviation</b>
School Mathematics from a Didactical Point of View: Analysis online (virtual course)		10-M-VHBDAN-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>
2	(not) successfully completed	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
The course "School Mathematics from a Didactical Point of View: Analysis online" is about learning and teaching analysis. This course focuses on the central and important topics in school analysis: functions, sequences and limits, differential calculus, applications and integration.		
<b>Intended learning outcomes</b>		
The students are acquainted with the subject-specific contents of school analysis, 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 analysis in teaching mathematics. They are able to develop and justify learning units and learning sequences for the important topics in school analysis 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 concepts in analysis, and are able to perform modelling (in the sense of modelling cycles) independently.		
<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, winter 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>		
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. 3 f)		
<b>Module appears in</b>		
First state examination for the teaching degree Gymnasium Mathematics (2019) exchange program Mathematics (2023) First state examination for the teaching degree Gymnasium Mathematics (2023)		