

<b>Module title</b>		<b>Abbreviation</b>
Didactics of Stochastics (virtual course)		10-M-VHBDST-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>		
Didactics of stochastics is about learning and teaching stochastics. This course focuses on the central and important topics in stochastics, for example basics in stochastics, Bernoulli experiments, location parameter, random variables, expected value, variance, probability spaces or the Tschebyscheff inequality. Moreover, the course covers topics which are usually not content of university courses and literature on stochastics.		
<b>Intended learning outcomes</b>		
The students are acquainted with the subject-specific contents of stochastics, 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 stochastics in teaching mathematics. They are able to develop and justify learning units and learning sequences for the important topics in school stochastics 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 stochastics, 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)		
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