

Module description

Module title					Abbreviation	
Analysis 1 for Teaching Degree (German Gymnasium) 10-M-ANL1-152-m01						
Module coordinator				Module offered by		
Dean of Studies Mathematik (Mathematics)				Institute of Mathematics		
ECTS	Method of grading Only after succ. compl. of module			npl. of module(s)		
7	(not)	successfully completed				
Duration		Module level	Other prerequisites			
1 semester		undergraduate				
Contents						
Real numbers and completeness; basic topological notions; convergence and divergence of sequences and series; power series and Taylor series; basics in differential calculus in one variable; basics of integral calculus in one variable (Riemann integral and improper integral).						
Intended learning outcomes						
central proof methods in analysis and can employ them to solve easy problems. He/she is able to perform easy mathematical arguments independently and to express mathematical arguments precisely and clearly in written form. Courses (type, number of weekly contact hours, language — if other than German)						
V (4) + Ü (2)						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 180 minutes) and written exercises (approx. 10 exercise sheets with approx. 4 exercises each) Language of assessment: German and/or English						
Allocation of places						
Additional information						
Workload						
210 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
§ 73 Nr. 1						
Module	e appea	ars in				

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First state examination for the teaching degree Gymnasium Mathematics (2015)