

Module title					Abbreviation
Analysis 1 for Teaching Degree (German Gymnasium)					10-M-ANL1-152-m01
Module coordinator				Module offered by	
Dean of Studies Mathematik (Mathema			atics)	Institute of Mathematics	
ECTS	ECTS Method of grading		Only after succ. compl. of module(s)		
7	(not) s	successfully completed			
Duration A		Module level	Other prerequisites		
1 semester		undergraduate			
Contents					
Real numbers and completeness; basic topological notions; convergence and divergence of sequences and se- ries; 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					
The student knows and masters the essential methods and notions of analysis. He/She is acquainted with the 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 appears in					
First state examination for the teaching degree Gymnasium Mathematics (2015)					

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