

Module title		Abbreviation
Selected Topics in Complex Analysis		10-M=VAFT-222-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Advanced methods and results of complex analysis on the basis of selected topics such as spectral complex analysis or operator theory as well as exemplary applications of this, e.g. in functional analysis, harmonic analysis, approximation theory, the theory of partial differential equations or mathematical physics.		
Intended learning outcomes		
The student is familiar with the basic concepts, methods and results of higher complex analysis and in particular has a familiarity with the properties of holomorphic functions. He/she can relate the acquired skills to other branches of mathematics and application subjects.		
Courses (type, number of weekly contact hours, language – if other than German)		
V (3) + Ü (1) Module taught in: German and/or English		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: German or English creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Mathematical Physics (2022) exchange program Mathematics (2023) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024)		