

Module title		Abbreviation
Inverse Problems 2		10-M=VIP2in-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	undergraduate	--
Contents		
Variational regularisation methods, source conditions, non-linear operator equations.		
Intended learning outcomes		
The students understand the particular difficulties of nonlinear problems and know solution methods for those. They have the ability to apply variational regularisation methods and to examine them with respect to stability and convergence. They gain deeper knowledge in selected inverse problems.		
Courses (type, number of weekly contact hours, language – if other than German)		
V (3) + Ü (1) Module taught in: 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. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester 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) Mathematics International (2022)		