

Module description

Module title					Abbreviation	
Overview Optimization for Machine Learning and Numerical Mathematics 1 10-M-OMNU1-Ü-232-mo1						
Module	a coord	inator	<u>-</u>	Module offered by	,	
Module coordinator Dean of Studies Mathematik (Mathematics)				Institute of Mathematics		
ECTS Method of grading			F			
			Only after succ. cor	after succ. compl. of module(s)		
		rical grade Module level	Other preventicites	Other prerequisites		
Duration			Other prerequisites	rerequisites		
1 semester undergraduate Contents				<u></u>		
Linear programming, quadratic programming, convex optimization, first order methods, application to machine learning problems such as support vector machines. Solution of systems of linear equations and curve fitting problems, nonlinear equations and systems of equations, interpolation with polynomials, splines and trigonometric functions, numerical integration.						
Intended learning outcomes						
on. He/She is able to relate these concepts with one another, and realises the advantages of thinking across the borders of different branches in mathematics. Courses (type, number of weekly contact hours, language — if other than German)						
$V(4) + \ddot{U}(2)$						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
oral examination of one candidate each (20 to 40 minutes) Assessment will have reference to two topics in applied mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English						
Allocation of places						
Additional information						
Workload						
360 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				

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Bachelor' degree (1 major) Mathematics (2023)