

Module description

Module title Abbreviation					
Optimization for Machine Learning					10-M-OML-232-m01
Module coordinator				Module offered by	
Dean of Studies Mathematik (Mathema			atics)	s) Institute of Mathematics	
ECTS			Only after succ. compl. of module(s)		
9		successfully completed			
Duratio	ration Module level Other prerequisites				
1 semester		undergraduate			
Contents					
Linear programming, quadratic programming, convex optimization, first order methods, application to machine learning problems such as support vector machines.					
Intended learning outcomes					
The student is acquainted with the relevant methods in optimization and is able to apply these methods to practical machine learning problems, both theoretically and numerically.					
Courses (type, number of weekly contact hours, language — if other than German)					
V (4) + Ü (2) 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. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: Only when announced in the semester in which the courses are offered and in the subsequent semester creditable for bonus					
Allocation of places					
Additional information					
Workload					
270 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Bachel	or' deg	ree (1 major) Mathematic	s (2023)		

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