

Module title					Abbreviation
Overview Linear Algebra for Teaching Degree (German Gymnasium)					10-M-LNL-Ü-191-m01
Module coordinator				Module offered by	
Dean of Studies Mathematik (Mathema			tics) Institute of Mathematics		
ECTS	CTS Method of grading		Only after succ. compl. of module(s)		
13 numerical grade		rical grade			
Duration		Module level	Other prerequisites		
2 semester		undergraduate			
Contents					
Basic notions and structures; vector spaces, linear maps and systems of linear equations; theory of matrices and determinants; eigenvalue theory; bilinear forms and Euclidean/unitary vector spaces; diagonalisability and Jor- dan normal form.					
Intended learning outcomes					
The student knows and masters the essential methods and proof techniques of linear algebra and is able to ap- ply them independently. He/She has an overview over the fundamental notions and methods of linear algebra, knows about their algebraic and geometric background, is able to relate them to each other and can present them adequately in written and oral form.					
Courses (type, number of weekly contact hours, language — if other than German)					
V (4) + 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)					
oral examination of one candidate each (20 to 40 minutes) Language of assessment: German and/or English Assessment will have reference to the contents of modules 10-M-LNL1 und 10-M-LNL2					
Allocation of places					
Additional information					
Workload					
390 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
§ 73 Nr. 2					
Module appears in					
First state examination for the teaching degree Gymnasium Mathematics (2019)					
First state examination for the teaching degree Gymnasium Mathematics (2023)					

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