Module title	Abbreviation
Linear Algebra for Economics and Management	10-M-MWW2-242-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

Theory of optimization with and without constraints and basics in linear algebra. Topics include multi-dimensional extreme value problems with and without constraints, basic algebraic structures (in particular, fields and vector spaces), the theory of linear systems of equations and linear maps, as well as linear independence, basis and dimension.

Intended learning outcomes

The student deepens his/her knowledge in analysis and optimization and learns basic linear algebra. He/She is able to apply these methods to simple problems in economical modelling.

Courses (type, number of weekly contact hours, language — if other than German)

V (2) + T (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)

written examination (approx. 60 to 120 minutes)
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

Bachelor' degree (1 major) Business Information Systems (2024)
Bachelor' degree (1 major) Business Management and Economics (2024)