Module title: Basic Linear Analysis
Abbreviation: 10-M-GRLA-152-m01

Module coordinator: Dean of Studies Mathematik (Mathematics)
Module offered by: Institute of Mathematics

ECTS: 9
Method of grading: Numerical grade
Only after successful completion of module(s): --

Duration: 1 semester
Module level: Undergraduate
Other prerequisites: --

Contents:
Basics in linear algebra: groups, rings, fields, systems of linear equations, vector spaces, matrices and determinants, linear maps, examples and applications.

Intended learning outcomes:
The student is acquainted with the basic methods and concepts of linear algebra. He/She is able to comprehend the central proof methods, can perform easy mathematical arguments and present them in written form. He/She can analyse basic mathematical problems and employ methods of linear algebra to solve them.

Courses:
(V (4) + Ü (2))

Method of assessment:
Written examination (approx. 60 to 90 minutes).
If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).

Allocation of places:
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Additional information:
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Referred to in LPO I (examination regulations for teaching-degree programmes):
§ 51 I Nr. 2

Module appears in:
First state examination for the teaching degree Grundschule Mathematics (2015)
First state examination for the teaching degree Realschule Mathematics (2015)
First state examination for the teaching degree Mittelschule Mathematics (2015)