### Module title
**Mathematics in German Grundschule - Geometry and Application of Mathematics**

### Abbreviation
10-M-MGS2-152-m01

### Module coordinator
Dean of Studies Mathematik (Mathematics)

### Module offered by
Institute of Mathematics

### ECTS
5 numerical grade

### Duration
1 semester

### Module level
undergraduate

### Other prerequisites
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### Contents
Discussion of central topics in teaching mathematics in Grundschule taking into account subject-specific and didactic aspects as well as possibilities of implementation in the classroom, also including modern technologies.

### Intended learning outcomes
The student is acquainted with the mathematical basics of elementary school mathematics and can explain them. He/She knows about the objectives of teaching mathematics in elementary school, fundamentals of developmental psychology and didactics of mathematics, as well as important models, presentations and media which can be employed in teaching mathematics in elementary school. She/he knows about common difficulties and problems of pupils in the acquisition of mathematical skills, and can employ didactical principles and teaching and learning strategies.

### Courses
**V (2) + 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)

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### Module appears in
- First state examination for the teaching degree Grundschule Pedagogy of Primary Education (2015)
- First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015)
- First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2015)
- First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015)