Module: Didactics of Mathematics: Algebra and Analysis (German Gymnasium)

Module title: Didactics of Mathematics: Algebra and Analysis (German Gymnasium)

Abbreviation: 10-M-DGY1-191-m01

Module coordinator:
Dean of Studies Mathematik (Mathematics)

Module offered by:
Institute of Mathematics

ECTS: 6

Method of grading: numerical grade

Duration: 2 semester

Module level: --

Other prerequisites: --

Contents:
Discussion of advanced topics in mathematics didactics for Gymnasium using the examples of algebra (Sekundarstufe I) and analysis (Sekundarstufe II) as well as discussion of possibilities of implementation in the classroom, also including modern technologies.

Intended learning outcomes:
The student is acquainted with mathematical ways of thinking and working techniques (in particular in the fields of algebra in Sekundarstufe I and analysis in Sekundarstufe II) and is able to take into account the students’ perception of mathematical topics, He/She knows different aspects of planning and analysing teaching of mathematics, masters different strategies for teaching and learning und can assess them.

Courses:
(V (2) + Ü (2) + V (2) + Ü (2))

Method of assessment:
a) written examination (approx. 60 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)

Language of assessment: German and/or English

Allocation of places:
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Additional information:
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Referred to in LPO I (examination regulations for teaching-degree programmes)
§ 73 I Nr. 6

Module appears in:
First state examination for the teaching degree Gymnasium Mathematics (2019)