Didactics and Methodology of Teaching Mathematics

10-M-MGS3-152-m01

Module coordinator
Dean of Studies Mathematik (Mathematics)

Module offered by
Institute of Mathematics

ECTS
5

Method of grading
Only after succ. compl. of module(s)

Duration
2 semester

Module level
undergraduate

Other prerequisites
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Contents
Discussion of basic topics in mathematics didactics and the methodology of teaching mathematics with a focus on didactic aspects (e.g. support for pupils who are particularly weak or particularly strong in mathematics, dyscalculia, evaluation of teaching materials for mathematics in Grundschule, using computers for teaching mathematics in Grundschule, selected topics and research results in modern mathematics didactics, theoretical foundations of mathematics didactics, dealing with heterogeneity in the classroom, organising substantial learning environments).

Intended learning outcomes
The student is acquainted with theoretical concepts in the didactics of mathematics and possibilities to promote mathematical skills, knows important aspects of planning and analysing teaching of mathematics, masters different strategies for teaching and learning und can assess and employ them.

Courses
S (2) + S (2)

Method of assessment
a) talk (approx. 45 minutes) or b) term paper (10 to 15 pages) or c) project (15 to 25 pages)
Assessment offered: Once a year, winter semester

Allocation of places
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Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
§ 36 I Nr. 7

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)