Module title
Hands-on Mathematics

Abbreviation
10-M-PRM-092-m01

Module coordinator
Dean of Studies Mathematik (Mathematics)

Module offered by
Institute of Mathematics

ECTS
8

Method of grading
numerical grade

Duration
2 semester

Module level
undergraduate

Other prerequisites
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Contents
Elaboration and implementation of a school project on a topic in mathematics, e. g. for project days, school term papers (Facharbeiten), Pluskurse (additional courses for the in-depth study of areas of special interest), workshops. In the theoretical phase, the students formulate the subject-specific and didactic requirements of the topic, search for a suitable topic, elaborate this topic for the project and draw up a project plan. This is done in groups with students providing each other with advice as well as challenging and reflecting on each other’s work. In the practical phase, the students prepare the implementation of the project, implement the project with pupils and afterwards reflect the planning and implementation.

Intended learning outcomes
The student is able to select a suitable mathematical topic for a school project and elaborate it. He/She is acquainted with different aspects of project planning and management, and can critically reflect the process.

Courses
P + S (no information on SWS (weekly contact hours) and course language available)

Method of assessment
project and implementation thereof: drawing up a project plan (approx. 10 pages) and practical implementation with pupils (type and expenditure of time to be specified by the lecturer at the beginning of the course)

Allocation of places
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Additional information
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Referred to in LPO I
(examination regulations for teaching-degree programmes)

Module appears in
First state examination for the teaching degree Gymnasium Mathematics (2009)