Module title: Numerical Mathematics 1 for Teaching Degree (German Gymnasium)  
Abbreviation: 10-M-NUL1-191-m01

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

ECTS: 5  
Method of grading: Only after successfully completed module(s)

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

Contents:
Solution of systems of linear equations and curve fitting problems, nonlinear equations and systems of equations, interpolation with polynomials, splines and trigonometric functions, numerical integration.

Intended learning outcomes:
The student is acquainted with the fundamental concepts and methods in numerical mathematics, applies them to practical problems and knows about their typical fields of application.

Courses:
Ü (2)

Method of assessment:
a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)

Language of assessment: German and/or English creditable for bonus

Allocation of places:
--

Additional information:
--

Referred to in LPO 1 (examination regulations for teaching-degree programmes)
§ 73 I Nr. 2 (2 LP), § 73 I Nr. 5 (3 LP)

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