### Module title

**Fundamentals Numerical Mathematics**

### Abbreviation

10-M-NUM-G-131-m01

### Module coordinator

Dean of Studies Mathematik (Mathematics)

### Module offered by

Institute of Mathematics

### ECTS

8

### Method of grading

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### Duration

1 semester

### Module level

undergraduate

### Other prerequisites

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### 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 fundamental concepts and methods in numerical mathematics, and is able to apply them independently to practical problems.

### Courses

V + Ü (no information on SWS (weekly contact hours) and course language available)

### Method of assessment

- **written examination** (approx. 90 to 180 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes)

- **Language of assessment**: German, 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)

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### Module appears in

Bachelor’ degree (1 major) Computational Mathematics (2014)