## Module Description

### Module title
Overview Numerical Mathematics 1 and 2 for Computational Mathematics

### Abbreviation
10-M-NUC-Ü-152-m01

### Module coordinator
Dean of Studies Mathematik (Mathematics)

### Module offered by
Institute of Mathematics

### ECTS
12

### Method of grading
numerical grade

### Only after succ. compl. of module(s)
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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 and advanced concepts and methods in numerical mathematics. He/She is able to relate these concepts with one another, and realises the advantages of thinking across the borders of different branches in mathematics.

### Courses

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<th>Type</th>
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<th>Language</th>
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### Method of assessment
oral examination of one candidate each (20 to 40 minutes)

Assessment will have reference to the contents of modules 10-M-NUC-Ü and 10-M-NUM1.

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)

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### Module appears in
Bachelor’ degree (1 major) Computational Mathematics (2015)