### Module title
Numerical Mathematics 2 for students of other subjects

### Abbreviation
10-M-NUM2af-152-m01

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

### Module offered by
Institute of Mathematics

### ECTS
10

### 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
Eigenvalue problems, linear programming, methods for initial value problems for ordinary differential equations, boundary value problems.

### Intended learning outcomes
The student is able to draw a distinction between the different concepts of numerical mathematics and knows about their advantages and limitations concerning the possibilities of application in different fields of natural and engineering sciences and economics.

### Courses (type, number of weekly contact hours, language — if other than German)
V (4) + Ü (2)

### Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
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
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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) Physics (2015)
- Bachelor' degree (1 major) Nanostructure Technology (2015)
- Bachelor' degree (1 major) Aerospace Computer Science (2015)
- Bachelor' degree (1 major) Functional Materials (2015)
- Bachelor' degree (1 major) Aerospace Computer Science (2017)
- Bachelor' degree (1 major) Physics (2020)
- Bachelor' degree (1 major) Nanostructure Technology (2020)
- Bachelor' degree (1 major) Aerospace Computer Science (2020)
- Bachelor' degree (1 major) Functional Materials (2021)
- Bachelor' degree (1 major) Quantum Technology (2021)