## Module title
Mathematics 2 for students of Space- and Aerospace Computer Science  
Abbreviation: 10-M-LRI2-152-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 theory, differential and integral calculus in several variables, differential equations, Fourier analysis, integral theorems.

### Intended learning outcomes
The student gets acquainted with fundamental concepts and methods of advanced mathematics. He/She learns to apply these methods to problems in natural and engineering sciences, in particular in computer science, and is able to interpret the results.

### Courses
(type, number of weekly contact hours, language — if other than German)

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<th>Type</th>
<th>Number of Weekly Contact Hours</th>
<th>Language</th>
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Module taught in: Ü: German or English

### 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 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 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) Aerospace Computer Science (2015)
Bachelor’ degree (1 major) Aerospace Computer Science (2017)
Bachelor’ degree (1 major) Aerospace Computer Science (2020)