**Module title**  
Mathematics 1 for students of Space- and Aerospace Computer Science

**Abbreviation**  
10-M-LRI1-141-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
Basics on numbers and functions, sequences and series, elementary functions, differential and integral calculus in one variable, vector calculus, linear maps and systems of linear equations, matrix calculus.

### 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

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<tr>
<th>Type</th>
<th>Duration</th>
<th>Method of grading</th>
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<td>V + Ü</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
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<td>German, English</td>
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### Method of assessment
written examination (approx. 90 to 120 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)

### Module appears in
Bachelor' degree (1 major) Aerospace Computer Science (2014)