

## t.MLA1 - Linear Algebra 1

**Person responsible for the course:** Roger Manz, maro

**Credits:** 3

**Valid for:** 2009/2010

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### Learning objectives:

- An introduction to mathematics for aviation.
- Getting the right mindset for mathematics.
- Training for abstraction.
- Understanding the basic principles mathematics.

### Course content:

Complex Numbers

Linear Algebra:

- Matrix calculus, Determinants
- Linear equation, Gauss-Elimination
- Vector space, Subspace, Base, Dimension
- Linear mapping, eigenvalues and eigenvectors in  $\mathbb{R}^2$  and  $\mathbb{R}^n$  respectively.

### Previous knowledge:

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### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x(2L+2L)
Tutorial/Practicum	
Group teaching	
Block instruction	
Seminar	

### Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	1,5
2	Exam during the semester	0,75
	Further assessments	

### Language of instruction:

German

### Instruction material:

**Comments:**

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