Zurich University of Applied Sciences

School of Engineering

t.MLA1 - Lineare Algebra 1

Person responsible for the course:	Roger Manz, maro
Credits:	3
Valid for:	2010/2011
Last saved:	15.10.2010 20:56

Learning objectives:

Introduction in the mathematical apparatus for Aviatik. Introduction in the mathematical way of thinking and training of the abstraction ability. Get the mathematical aspect of the general education.

Course content:

Complex Numbers

Linear Algebra:
- Calculus with matrices, Determinantes
- System of linear equations, Gauss-Elimination
- Vectorspace, Subspace, Base, Dimension
- Linear maps, Special linear maps like Projection, Reflection, Rotation
- Eigenvalue and Eigenvalues

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:

Deutsch

Instruction material:

Skript

Linear Algebra, Geodesy and GPS, Gilbert Strang, Kai Borre, WELLESLEY

Lineare Algebra, Howard Anton, Spektrum

Lineare Algebra für das erste Semester, Mike Scherfner, Pearson

Lineare Algebra, Albrecht Beutelspacher, Vieweg

Comments:

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