Zurich University of Applied Sciences

School of Engineering

t.MLAE2 - Mathematik: Lineare Algebra für Ingenieure 2

Person responsible for the course:	Marcello Robbiani, roma
Credits:	3
Valid for:	2010/2011
Last saved:	08.09.2010 07:57

Learning objectives:

This course
- provides the mathematical armamentarium and the mathematical skiills needed for the ingeneering courses
- introduces to the mathematical approaches of problem solving and trains abstrakt thinking
- allows for the common knowledge in mathematics

Course content:

linear algebra
- linear spaces
- linear transformations
- linear operators
- eigenvectors and eigenvalues
- eigenproblems in engineering

complex numbers:
-operations
-representations
- applications in the theory of vibrations

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	0,6
2	Exam during the semester	2 x 0,2
	Further assessments	

Language of instruction:

German

Instruction material:

Fischer: Analytische Geometrie. Vieweg.

Fischer: Lineare Algebra. Vieweg.

Kowalsky, Michler: Lineare Algebra. de Gruyter.

Comments:

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