t.MAE3 - Mathematik: Analysis für Ingenieure 3

Person responsible for the course:	Nadin Stahn, stan
Credits:	3
Valid for:	2010/2011
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Learning objectives:

The students know methods to solve complex problems analytical and apply these methods consciously.

Course content:

real functions of several variables

- elementary concepts (rapresentation of curves and surfaces)

- differential calculus (gradients, differentials, curvature)

- integral calculus - selected examples

combinatoric and elementary probability theory

ODEs

- first order equations

- linear higher order equations

- systems of equations - selected examples

Previous knowledge:

MAE1, MAE2

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	
	Exam during the semester	
	Further assessments	accordant written determination of the lecturer at the beginning of the semester

Language of instruction:

Deutsch

Instruction material:

Dozierendenabhängig

Blatter: Ingenieur Analysis II, Verlag der Fachvereine Zuerich
Arnol'd: Gewöhnliche Differentialgleichungen. Springer
Walter: Gewöhnliche Differentialgleichungen. Springer

Comments:

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