t.MAS2 - Mathematik: Analysis und Stochastik 2

Person responsible for Fr

Franz Müller, mlra

the course:

Credits: 3

Valid for: 2010/2011

Last saved: 07.09.2010 16:02

Learning objectives:

This course

- provides the mathematical knowledge and skills needed for the ingeneering courses
- introduces mathematical approaches of problem solving and trains abstract thinking
- furthers general knowledge in mathematics

Course content:

elementary vector analysis

- scalar and vector fields
- line integrals
- applications in engineering

stochastical processes random variables and distributions elementary analytical statistics regression und correlation

Previous knowledge:

courses MAE1, MAE2, MLAE1, MLAE2,

i.e.:

Analysis 1 and 2 (differential- und integral calculus of one variable)

Linear Algebra 1 and 2

furthermore MAS1

Teaching method:

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

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Assessment:

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

Number	Туре	Weighting
1	End of term exam	60%
2	Exam during the semester	20% each
		worked/presented solutions of exercises (depending on lecturer)

Language of instruction:

german

Instruction material:

depending on lecturer (e.g. script, exercise sheets ...)

Comments:

Literature (e.g.):

Arnol'd: Gewöhnliche Differentialgleichungen. Springer Walter: Gewöhnliche Differentialgleichungen. Springer Stiefel: Einführung in die numerische Mathematik. Teubner

further references from lecturer on demand

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