t.MAE2 - Mathematik: Analysis für Ingenieure 2

Person responsible for

Marcello Robbiani, roma

the course:

Credits: 3

Valid for: 2010/2011

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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:

power and root functions exponential functions and logarithms trigonometric functions and arcus functions elementary theory of vibrations

calculus of real functions in one variable

- curve analysis and elementary optimisation
- integration methods
- length, area and volume
- baricenters and moments

the concept of differential equations - selected examples ad hoc:

- descriptive statistics (continuation)

Previous knowledge:

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	Туре	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:

Courant: Differential- und Integralrechnung 1&2. Springer Mayberg, Vachenauer: Höhere Mathematik. Springer

Jänich: Mathematik 1&2. Springer

Comments:

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