

t.MNMT2 - Mathematik: Numerik für Maschinentechnik 2

Person responsible for the course: Nadin Stahn, stan

Credits: 2

Valid for: 2011/2012

Last saved: 31.08.2011 08:33

Learning objectives:

This course

- provides the numerical armamentarium and the numerical skills needed for the engineering courses
- introduces to the way of thinking of discrete and numerical mathematics.

The students have

- an overview of the most important numerical methods and can
- categorise problems and choose an adequate numerical solving method
- analyse, apply and modulate software
- implement algorithms for selected problems.

Course content:

boundary value problems

numerical differentiation and integration

numerics of PDEs - selected examples

- finite differences method
- finite element method

Previous knowledge:

MAE1, MAE2, MAE3, MLAE1, MLAE2, MNMT1

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x2L
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:

German

Instruction material:

dependent on the lecturer

Comments:

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