

t.MEST2 - Mechanik für Systemtechnik 1

Person responsible for the course: Michael Warden, wami

Credits: 2

Valid for: 2010/2011

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Learning objectives:

The students are capable of applying both static and kinetic friction laws and to determine the forces involved between contacting surfaces.

They are familiar with the basic concepts of the theory of elasticity, such as stress, strain, and Hooke's law.

The students can calculate the load capacity of bars subjected to tension and compression.

Course content:

Lectures:

- Static and kinetic friction
- Tension and compression in bars
- General stress state

Problem solving:

Problems are handed out which have to be solved as home work. These are discussed during the lectures.

Previous knowledge:

MEST1

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x2
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	0.8
1	Exam during the semester	0.2
	Further assessments	

Language of instruction:

German

Instruction material:

Technische Mechanik 1: Band 1: Statik von Gross, Hauger, Schröder und Wall: ISBN 978-3-540-68394-0

Technische Mechanik 2: Band 2: Elastostatik von Gross, Hauger, Schröder und Wall: ISBN 978-3-642-00564-0

Comments:

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