Zurich University of Applied Sciences

School of Engineering

t.MST2 - Mechanik Statik 2

Person responsible for the course:	Jürg Meier, mrjg
Credits:	2
Valid for:	2010/2011
Last saved:	16.12.2010 11:32

Learning objectives:

- Knowing methods to determine the support and joint forces of planar, spatial, and multi-part structures (including ANSYS)
- Knowing methods to determine internal forces and moments in beams and frames
- Understanding the basic terms of strength of materials
- Repetition of the strength of materials in tensile and pressure bars
- Stress and strain analysis by centred tension and pressure

Course content:

Stress resultant [also internal force variable], adhesion and friction

- Determine the bearing and joint forces supporting structures
- Determine the shear force, axial force, and bending moment's distribution in beams and frames
- Basic terms of strength of materials
- Stress and strain analysis by centred tension and pressure

Previous knowledge:

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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	60%
2	Exam during the semester	je 20%
	Further assessments	

Language of instruction:

Deutsch

Instruction material:

Script of the lecturer, possibly use of the book Technische Mechanik 1: Gross, Hauger, Schnell

Comments:

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