

t.MSL - Mechanik Schwingungslehre

Person responsible for the course:	Jürg Meier, mrjg			
Responsible OU:				
ECTS:	3			
Valid for:	2012/2013			
Last saved:	20.06.2013 15:30			
Expertise:				
Methodological skills:				
Social skills:				
Personal skills:				
Complex problems with manalysis of these systemsKnowing the experimenta	solvable vibration systems ple problems and solve them numerically nultiple degrees of freedom: knowing common simulation tools, applying it for the Il methods for determine the parameters of vibration systems idvantages, and disadvantages of simulations			
Course content: Lecture: - Linear oscillators with one degree of freedom: solution of the differential equation, parameters, swing off process, impulse response - Linear oscillators with two or more degrees of freedom: Eigenvalues and Eigenforms, impulse response, simulation - Continual systems				
•	ng systems with one or more degrees of freedom of structures by simulation tools (Matlab / Simulink and / or RecurDyn)			
Previous knowledge:				

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x2L
Tutorial/Practicum	4x3.5L
Block instruction	

Assessment:

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

description	type	form	scope	assessment	weighting
Performance records during school hours					
Semester end exam					

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Instruction material:

Script of the lecturer

Further literature: Technische Mechanik 3 Gross, Dietmar; Hauger, Werner; Schröder, Jörg; Wall, Wolfgang

Springer 9 2006

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