

t.MSRT2 - Mess-, Steuer- und Regelungstechnik 2

Person responsible for the course:	Urs Glauser, glsu
Credits:	4
Valid for:	2010/2011
Last saved:	20.08.2010 16:32

Learning objectives:

- Concept of PID-control, transfer elements
- Modeling and simulation of dynamic systems and closed loops curcuits
- Types of controllers, controller settings and commissioning
- System stability

Course content:

- Characteristics of control elements
- Basic types of transfer elements, control paths, rating of controllability
- P-, PI-, PID-controllers, command action and disturbance reaction
- Robustness, optimal controller settings

Lab:

- Step response and frequency response methods
- Modelling and simulation of physical systems
- Command action and disturbance reaction of physical systems
- Operating and testing of closed loop control plants

Previous knowledge:

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Teaching method:			
Type of lesson:	Number of lessons per week:		
Lecture	14x2L		
Tutorial/Practicum	7x4L		
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	60%
1	Exam during the semester	20%
8	Further assessments	20%

Language of instruction:

Instruction material:

Skript

Einführung in die Regelungstechnik, Mann Heinz, Schiffelgen Horst, Froriep Rainer, Hanser 11. Aufl. 2009

Comments: