

t.INMI2 - Informatik für Maschinentechnik-Informatik 2

Person responsible for the course: René Klopfer, klre

Credits: 4

Valid for: 2010/2011

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Learning objectives:

- Overview of automation of repetitive operations
- Exemplary implementation of a new operation and integration in an existing system
- Deepened knowledge of a simulation tool (network simulation)
- Simulation's validation with measurements
- Systematic documentation parallel to the development process

Course content:

Lecture:

Automation of CAD operations:

- Overview
- Introduction to the corresponding programming language (VBA, CATScript)
- Introduction to the components (objects) and interfaces (API)

Simulation tools

- Matlab/Simulink

Documentation

- Accompanied creation of documentations

Practice:

- Project: automation of operation process
- Project: simulation/ validation on the basis of an example
- Project: automation of a larger operation process

Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x2L
Tutorial/Practicum	
Group teaching	14x2L
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	
1	Exam during the semester	
1	practicum report(s)	

Language of instruction:

Deutsch

Instruction material:

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Comments:

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