Zurich University of Applied Sciences

School of Engineering

t.CAPM - Rechnergestützte Planung und Fertigung

Person responsible for the course:	Peter Engel, enpe
Credits:	4
Valid for:	2010/2011
Last saved:	20.07.2010 09:25

Learning objectives:

- Theory and practice for the optimized use of 3D data along the CAx process chain
- Knowledge of basic process steps for production suitable design, including 3D tolerancing, correct clamping, tooling, assembly simulation and manufacturing technologies
- Practical implementation of the course content on the base of a real workpiece

Course content:

- Default setting for tolerances on 3D-models including test of producibility
- Assembly simulation and optimization of the product
- Clamping technique
- Tooling and tool management
- Simulation and programming of a 3D model on a 5-axis milling machine
- Generation of a machine model and its simulation for collision control
- Possibilities of generativ processes, from CAD to part

Previous knowledge:

Basic cours CATIA V5

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	
	Exam during the semester	
1	Further assessments	

Language of instruction:

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Instruction material:

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Comments:

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