

## t.ICE - Integraler CAD-Einsatz

**Person responsible for the course:** Peter Engel, enpe

**Credits:** 4

**Valid for:** 2011/2012

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### Learning objectives:

- Presenting possible applications and limits of a modern 3D-CAD-system in the areas of free-form surface generation and virtual product presentation
- Creation, animation and edition of motion and assembly simulations
- Practical applications in product design

### Course content:

- Generation of guiding geometries according to design of the part (sketches and pictures)
- Generation and analysis of complex 3D-surfaces
- Motion simulation of assemblies (subassemblies, components)
- Engineer-based analysis and optimization of motion-sequences
- Analysis of assembly- and disassembly-operations
- Visualization of motion sequences (video sequences)
- Photorealistic illustration

### Previous knowledge:

Basic course CATIA V5

### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	
Tutorial/Practicum	
Group teaching	14x4L
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	
2	Further assessments	

### Language of instruction:

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### Instruction material:

- Sample sequences and design examples on paper at every workstation and also as pdf-file
  - CATIA V5 Companion (E-Learning)
  - CATIA V5 Online Help
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**Comments:**

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