

t.PES3 - Produktentwicklung Systemtechnik 3

Person responsible for the course: Wilfried J. Elspass, eswd

Credits: 4

Valid for: 2011/2012

Last saved: 23.08.2011 10:53

Learning objectives:

Understanding the basics of the finite element method, creation of fe-models from cad-models, recognizing and judging of the limitation and capabilities of the method in the field of structural analysis, introduction to perform fe-analysis independently using a professional fe-software, integration of structural simulation tools in the product development process,

Course content:

- finite element analysis basics
- introduction to model validation techniques
- development of finite element models incl. model validation
- analysis of assemblies
- analysis of contact problems
- application of the analysis process to a real structure incl. validation and test

Previous knowledge:

Strength of materials

Numerical methods

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14*2
Tutorial/Practicum	
Group teaching	14*2
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	60%
	Exam during the semester	
1	Further assessments	40%

Language of instruction:

german (english if required)

Instruction material:

-

Comments:

-