

t.PES4 - Produktentwicklung Systemtechnik 4

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

Credits: 4

Valid for: 2011/2012

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Learning objectives:

Realization of a project (team based) to develop a mechatronic component including concept and design process, application of finite element techniques, multiphysics, understanding multi-functional materials, deepened knowledge about the product development process incl. methods and tools, realization of functional prototypes during the concept phase

Course content:

Elements of the product development process, creativity methods, problem solving methods, concept variants, system integration, basic of electromechanical transducers, multiphysics simulation, application of piezoelectric multi-functional materials for sensors and actuators, basics of composite materials, active structures

Previous knowledge:

Development of mechatronic products 3

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:

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Instruction material:

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Comments:

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