

t.ENVT2 - Energie- und Verfahrenstechnik 2

Person responsible for the course: Frank Tillenkamp, till

Credits: 4

Valid for: 2010/2011

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Learning objectives:

- Deepening the skills in hydro mechanics, thermodynamics, and process engineering
- Getting basic knowledge about energy systems and process engineering and equipment
- Designing energy systems, based on different primary energy options.
- Overview over sustainable energy use and basic methods of mechanical-thermal process engineering
- Ability to tackle new problem areas of energy systems and process engineering

Course content:

- Refrigeration processes with vapor to produce cooling energy and energy for heating with heat pumps
- Humid air
- Fuel cells
- Rheology (non-Newtonian fluids) and processing of polymeric materials
- Thermo dynamical phase equilibrium, behaviour of real gases, mass transfer process
- Mass transfer and drying technology

Previous knowledge:

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Teaching method:

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

Language of instruction:

Deutsch

Instruction material:

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Comments:

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