

t.FTH3 - Fluid- und Thermodynamik 3

Person responsible for the course: Egon Lang, lang
Credits: 4
Valid for: 2010/2011
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Learning objectives:

Application of basic equations of heat transfer
 Understanding of similarity and application of dimensionless parameters
 Analysis and design of heat exchangers

Course content:

Lecture:

- Fundamentals of heat transfer
- steady state and transient heat conduction in 2D
- convective heat transfer
- Radiation processes for technical applications
- Analysis and design of heat exchangers with phase change

Practice:

- Analysis of the heating-up process of a stirred vessel
- Analysis of free convection and heat transfer on a vertical wall
- Analysis of a steam condensor
- Analysis of a heat exchanger

Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x3L
Tutorial/Practicum	4x3.5L
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	60%
2	Exam during the semester	2*20%
4	practicum report(s)	

Language of instruction:

Deutsch

Instruction material:

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Comments:

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