

t.WT1 - Werkstofftechnik 1

Person responsible for the course: Arnd Jung, jung
Credits: 2
Valid for: 2010/2011
Last saved: 24.09.2010 17:13

Learning objectives:

Advanced knowledge about materials, their properties and applications.

Course content:

Lectures:

- Heat treatments
- Properties of polymers

Practice:

3 experiments, 3 lessons each, teamwork:

- Recrystallisation of aluminium
 - Mechanical properties of polymers
 - Fatigue behaviour of aluminium alloys
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Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x2L
Tutorial/Practicum	3x3L
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	67%
	Exam during the semester	
1	Further assessments	33%

Language of instruction:

Deutsch

Instruction material:

lecture notes

E. Roos, K. Maile, Werkstoffkunde für Ingenieure Grundlagen, Anwendung, Prüfung, Springer-Verlag, 3. Auflage, 2008, ISBN 978-3540220343

M. F. Ashby, D. R. H. Jones, Werkstoffe 2: Metalle, Keramiken und Gläser, Kunststoffe und Verbundwerkstoffe, Elsevier, 3. Auflage, 2007, ISBN 3-8274-1709-0

J. Reissner, Werkstoffkunde für Bachelors, Hanser Verlag, 2010, ISBN 978-3-446-42012-0

Comments:

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