

t.KV - Kunststoffverarbeitung

Person responsible for the course: Gregor Peikert, peik

Credits: 3

Valid for: 2010/2011

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Learning objectives:

The students

- know the rheological behaviour of plastics
 - know processing of plastics
 - know the relation between the structures of plastics and possible processing procedures
 - know the influence of additives on processing and material properties
 - know the influence of processing procedures and conditions on the materials properties
 - gain an insight into the current research on plastics processing
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Course content:

Rheology of plastics

Terms and classification of processing procedures

Compounding (mixing, granulating, milling, predrying, influence of additives, fillers and reinforcements)

Primary shaping

- Extrusion (incl. reactive extrusion, extrusion blow moulding, stretch blow moulding, calendaring, fibre spinning)
 - Compression moulding
 - Injection moulding (incl. special processes)
 - Rapid Prototyping
 - Fibre-reinforced materials (prepreg, fibre spraying, fibre winding, pultrusion, laminating by hand, RTM process)
 - Casting
 - Foaming
 - Forming
 - Thermoforming
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Previous knowledge:

PMA

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	10x3L
Tutorial/Practicum	4x3L
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	
	practicum report(s)	
	Further assessments	

Language of instruction:

Deutsch

Instruction material:

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Comments:

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