

t.PMA - Polymere Materialien

Person responsible for the course: Martina Hirayama, hirn

Credits: 3

Valid for: 2010/2011

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Learning objectives:

- Knowing the relevance of polymers in the field of materials
 - Knowing standard and technical polymers
 - Knowing the relations between structure and properties
 - Knowing and understanding polyreactions
 - Knowing and understanding copolymers
 - Knowing and understanding polymeric composites, polymer blends, and adhesives
 - Knowing properties, applications and additives of polymers
 - Understand the interaction between polymers and the environment
 - Examples from the current research on polymers
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Course content:

Polymeric materials

- Structure of polymers
- Molecular weight of polymers
- Chemistry of polymers: reactions and processes
- Copolymers
- Polymeric composites
- Polymer blends
- Properties, applications and recycling of polymers
- Additives for polymers
- Examples from the current research on polymers

Practical course

- Polymerisation and characterization of the products
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Previous knowledge:

ACMV1, ACMV2, CP, OC, OCP

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	70%
	Exam during the semester	
	Further assessments	practical course 30%

Language of instruction:

Deutsch

Instruction material:

- Lecture notes
 - Literature
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Comments:

Practical course