

Module title		Abbreviation
Polymer Materials 1: Technology of Polymer Modification		o8-FU-PW1-161-mo1
Module coordinator		Module offered by
degree programme coordinator Funktionswerkstoffe (Functional Materials)		Chair of Chemical Technology of Material Synthesis
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Polymer synthesis methods; the structure of polymers and polymer compounds; properties of polymers; technologies for the manufacturing of polymer compounds and components, procedures for the characterisation of polymer compounds and components.		
Intended learning outcomes		
Students have developed a knowledge of the special properties of polymers and polymer compounds (e.g. time and temperature-dependent viscoelastic behaviour). They have become familiar with the characteristics of important production technologies (polymer synthesis methods, compounding technologies, processing methods such as injection moulding) and understand the different ways of influencing the properties of materials and manufactured products. They have become familiar with ways to calculate complex flow conditions in polymer processing machines and tools.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + P (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) Language of assessment: German and/or English Assessment offered: Once a year, winter semester P: creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Functional Materials (2016) Master's degree (1 major) Functional Materials (2022)		