

Module title		Abbreviation
Molecular Materials (Practical Course)		o8-FU-MoMaP-152-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	(not) successfully completed	o8-FU-MoMa-V
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Lab course to familiarise students with experimental procedures in molecular materials (e.g. mesoporous, piezoelectric and electrochromic materials, polymer-based superabsorbers and nanoparticle-based anti-reflective coating) including chemical synthesis, chemical and physical characterisation methods as well as analysis of experimental data and scientific documentation.		
Intended learning outcomes		
Students have developed knowledge and skills in the areas of chemical synthesis, characterisation methods, data analysis as well as scientific documentation. Having performed experiments, they have developed a deeper understanding of the relationship of the structure and function of molecular materials.		
Courses (type, number of weekly contact hours, language – if other than German)		
P (5)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English		
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		
Bachelor' degree (1 major) Functional Materials (2015)		