Module title			Abbreviation
Molecular Materials (Practical Course)			08-FU-MoMaP-152-m01
Module coordinator		**Module offered by**	
degree programme coordinator Funktionswerkstoffe (Functional Matrierials)		Chair of Chemical Technology of Material Synthesis	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	(not) successfully completed	08-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

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)