Module title			Abbreviation
Molecular Materials (Practical Course)			08-FU-MoMaP-212-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-V12	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

Contents

Laboratory course to familiarise the students with experimental procedures in molecular materials including chemical synthesis, chemical and physical characterisation methods, as well as analysis of experimental data and scientific documentation, such as mesoporous, piezoelectric and electrochromic materials, polymer-based superabsorbers and nanoparticle based antireflex-coatings.

Intended learning outcomes

The students gain practical knowledge in the area of chemical synthesis, characterization methods, data analysis, as well as scientific documentation. By attending the experimental lab course the students consolidated their understanding of the relationship of 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's degree (1 major) Functional Materials (2021)
Bachelor's degree (1 major) Functional Materials (2025)