

Module title		Abbreviation
Molecular Materials (Lectures)		o8-FU-MoMaV12-212-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)
10	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	undergraduate	--
Contents		
Chemical bonds and molecular interactions, supramolecular chemistry, molecular materials, colloids, nano particles, thin films.		
Intended learning outcomes		
The student understands the relationship of physical, chemical and technological properties of materials and their structure. They know the significance of various inter and intramolecular interactions and how they determine the properties of molecular materials. They learn how to familiarize themselves with a scientific topic including a literature search, and how to give a presentation including discussion and feedback.		
Courses (type, number of weekly contact hours, language – if other than German)		
V (3) + S (1) + V (3) + S (1)		
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 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)] as well as talk (approx. 30 minutes), weighted 75% : 25% creditable for bonus Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
--		
Workload		
300 h		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Functional Materials (2021)		