

Module title		Abbreviation
Chemical Nanotechnology: Analytics and Applications		o8-FS5-101-m01
Module coordinator		Module offered by
holder of the Chair of Chemical Technology of Material Synthesis		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		
German contents available but not translated yet.		
Das Modul bietet eine anwendungsorientierte Einführung in die Charakterisierungsmethoden der Nano-Chemie und ist mit praktischen Übungen verknüpft. Weiterhin steht der Erwerb von Kenntnissen zu der Thermoanalyse, rheologischen Verfahren und dynamischen Lichtstreuung im Vordergrund. Darüber hinaus gibt die Vorlesung einen Einblick in die Anwendungen von Nanomaterialien in der Industrie und in der Technik.		
Intended learning outcomes		
German intended learning outcomes available but not translated yet.		
Der/Die Studierende verfügt über vertiefte Kenntnisse in den Bereichen der Sol-Gel Chemie und der Biomineralisation.		
Courses (type, number of weekly contact hours, language – if other than German)		
This module comprises 2 module components. Information on courses will be listed separately for each module component.		
<ul style="list-style-type: none"> • o8-FS5-1-101: V (no information on SWS (weekly contact hours) and course language available) • o8-FS5-2-101: V (no information on SWS (weekly contact hours) and course language available) 		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.		
Assessment in module component o8-FS5-1-101: Sol-Gel Chemistry 2 <ul style="list-style-type: none"> • 2 ECTS, Method of grading: numerical grade • a) oral examination (approx. 15 minutes) or b) written examination (approx. 45 minutes) 		
Assessment in module component o8-FS5-2-101: Application oriented Characterization of colloidal and polymeric systems <ul style="list-style-type: none"> • 3 ECTS, Method of grading: numerical grade • a) oral examination (approx. 20 minutes) or b) written examination (approx. 45 minutes) 		
Allocation of places		
Number of places: 20. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. In this procedure, applicants who already have successfully completed at least one module component of the respective module will be given preferential consideration. A waiting list will be maintained and places re-allocated as they become available.		

**Additional information**

The course is offered as a block course at the end of the semester.

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Bachelor' degree (1 major) Nanostructure Technology (2010)

Bachelor' degree (1 major) Nanostructure Technology (2012)

Master's degree (1 major) Technology of Functional Materials (2010)

Master's degree (1 major) Functional Materials (2012)