

<b>Module title</b>		<b>Abbreviation</b>
Chemical Nanotechnology - Characterization Techniques and Applications		o8-FS5-092-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Chair of Chemical Technology of Material Synthesis		Chair of Chemical Technology of Material Synthesis
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	graduate	--
<b>Contents</b>		
<p>The module provides an application-oriented introduction to the characterisation methods of nanochemistry and includes practical exercises. It also discusses thermoanalysis, rheological processes and dynamic light scattering. The lecture also offers insights into the applications of nanomaterials in the industrial and technological sectors.</p>		
<b>Intended learning outcomes</b>		
Students have developed an advanced knowledge of sol-gel chemistry and biomineralisation.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
<p>This module comprises 2 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> <li>o8-FS5-1-092: V (no information on SWS (weekly contact hours) and course language available)</li> <li>o8-FS5-2-092: V (no information on SWS (weekly contact hours) and course language available)</li> </ul>		
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
<p>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.</p> <p><b>Assessment in module component o8-FS5-1-092:</b> Sol-Gel Chemistry 2: Thin Film Processing</p> <ul style="list-style-type: none"> <li>2 ECTS, Method of grading: numerical grade</li> <li>oral examination (approx. 15 minutes)</li> </ul> <p><b>Assessment in module component o8-FS5-2-092:</b> Application Oriented Charakterization of Colloidal (Molecular) Systems</p> <ul style="list-style-type: none"> <li>3 ECTS, Method of grading: numerical grade</li> <li>oral examination (approx. 20 minutes)</li> </ul>		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
--		
<b>Workload</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
Master's degree (1 major) Technology of Functional Materials (2009)		