

<b>Module title</b>		<b>Abbreviation</b>
Chemically and biologically inspired Nanotechnology for Materials Synthesis		o8-NT-101-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	undergraduate	--
<b>Contents</b>		
This module provides an introduction to the synthesis methods of sol-gel chemistry and discusses the methods of analysis used to characterise the generated materials. It also discusses the fundamental principles of biomineralisation and uses examples to introduce students to bio-inspired material synthesis.		
<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)		
This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> <li>o8-NT-1-101: V (no information on SWS (weekly contact hours) and course language available)</li> <li>o8-NT-2-101: 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)		
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><b>Assessment in module component o8-NT-1-101:</b> Chemically and biologically inspired Nanotechnology for Materials Synthesis</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-NT-2-101:</b> From Biomineralisation to biologically inspired Materials Synthesis</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>		
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<b>Additional information</b>		
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<b>Workload</b>		
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<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
Bachelor' degree (1 major) Technology of Functional Materials (2010) Bachelor' degree (1 major) Nanostructure Technology (2010)		



Master's degree (1 major) Chemistry (2010)