

<b>Module title</b>		<b>Abbreviation</b>
Concepts of Inorganic Chemistry		o8-AC-KAC-152-mo1
<b>Module coordinator</b>		<b>Module offered by</b>
lecturers of lecture "Konzepte der Anorganischen Chemie" (Concepts of Anorganic Chemistry)		Institute of Inorganic Chemistry
<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 atoms and the MO theory. It discusses the orbital model, the VSEPR theory and the valence bond theory. The course also focuses on redox reactions, acids and bases and electrochemistry.		
<b>Intended learning outcomes</b>		
Students are able to describe the bonding situations and geometry of molecules of lower complexity on the basis of different models. They are able to assign oxidation numbers to atoms in chemical compounds and know different acid-base concepts.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (1) + Ü (2)		
<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)		
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) Language of assessment: German and/or English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
§ 42 I Nr. 1 § 62 I Nr. 1		
<b>Module appears in</b>		
First state examination for the teaching degree Grundschule Chemistry (2015) First state examination for the teaching degree Realschule Chemistry (2015) First state examination for the teaching degree Gymnasium Chemistry (2015) First state examination for the teaching degree Mittelschule Chemistry (2015) First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015))		