

Module title		Abbreviation
Advanced Inorganic Chemistry		o8-ACM1-102-m01
Module coordinator		Module offered by
Managing Director of the Institute of Inorganic Chemistry		Institute of Inorganic Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
20	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	graduate	--
Contents		
<p>This module discusses advanced topics in main group chemistry and transition metal chemistry. It focuses on special compounds of the main group elements (MGEs), bonding situations of MGEs and MGE compounds, the chemistry of transition metals and coordination chemistry. The course gives students the opportunity to enhance their skills in advanced synthesis and analytical methods in inorganic chemistry. The focus will be on working under inert atmospheres, purification methods, spectral analysis and crystallography. Students will be expected to conduct their work in the lab independently, write a lab report documenting their findings and deliver a presentation.</p>		
Intended learning outcomes		
<p>Students are able to characterise and explain special compounds of the main group elements. They can describe the chemical properties of transition metals and analyse the structure as well as chemical and physical aspects of coordination compounds. Students are able to use advanced synthesis and analytical methods in inorganic chemistry in the lab and to interpret their findings. They are able to write a lab report documenting their findings and deliver a presentation.</p>		
Courses (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"> • o8-ACM1-1-102: S + S (no information on SWS (weekly contact hours) and course language available) • o8-ACM1-2-102: P (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)		
<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>Assessment in module component o8-ACM1-1-102: Inorganic Chemistry for advanced students Inorganic Chemistry for advanced students</p> <ul style="list-style-type: none"> • 10 ECTS, Method of grading: numerical grade • a) 1 to 3 written examinations (90 to 120 minutes each) or b) oral examination of one candidate each (30 minutes) or c) oral examination in groups (groups of 2, 45 minutes) • Language of assessment: German or English <p>Assessment in module component o8-ACM1-2-102: Inorganic Chemistry practical course for advanced</p> <ul style="list-style-type: none"> • 10 ECTS, Method of grading: (not) successfully completed • practical work with lab report (20 pages) and talk (15 minutes) • Language of assessment: German or English 		
Allocation of places		
--		
Additional information		
--		
Workload		
--		

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

--

Module appears in

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