

Module title		Abbreviation
General Chemistry for Physics and Engineers		o8-CP1-102-m01
Module coordinator		Module offered by
lecturer of the course		Institute of Inorganic Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module discusses the fundamental principles of both inorganic and organic chemistry. The lab course gives students the opportunity to learn essential methods and perform simple experiments.</p>		
Intended learning outcomes		
<p>Students are able to explain the principles of the periodic table and to extract information from it. They are able to explain basic models of the structure of matter. They have developed the ability to use the language of chemical formulas to describe chemical reactions and to interpret them by identifying the type of reaction. They are able to identify fundamental problems in chemistry and perform experiments to solve them.</p>		
Courses (type, number of weekly contact hours, language – if other than German)		
<p>This module comprises 3 module components. Information on courses will be listed separately for each module component.</p> <ul style="list-style-type: none"> • o8-IOC-1-072: V (no information on SWS (weekly contact hours) and course language available) • o8-CP1-3-072: P (no information on SWS (weekly contact hours) and course language available) • o8-CP1-1-102: 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)		
<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-IOC-1-072: Organic Chemistry for students of medicine, biomedicine, dental medicine, engineering and natural science</p> <ul style="list-style-type: none"> • 3 ECTS, Method of grading: numerical grade • written examination (approx. 60 minutes) <p>Assessment in module component o8-CP1-3-072: General and Analytical Chemistry (lab)</p> <ul style="list-style-type: none"> • 2 ECTS, Method of grading: (not) successfully completed • for each experiment: Vortestate (pre-experiment exams, approx. 10 minutes each), assessment of practical performance (log, 2 to 5 pages), Nachtstate (post-experiment exams, approx. 10 minutes each) • Assessment offered: once a year, summer semester • Only after successful completion of module components: Successful completion of module component o8-CP1-1 is a prerequisite for participation in module component o8-CP1-3. <p>Assessment in module component o8-CP1-1-102: Principles of Inorganic Chemistry for Physics and Engineering Majors</p> <ul style="list-style-type: none"> • 5 ECTS, Method of grading: numerical grade • written examination (approx. 90 minutes) 		
Allocation of places		
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Additional information		
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Workload		
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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Bachelor' degree (1 major) Physics (2010)

Bachelor' degree (1 major) Physics (2012)

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

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