Module description

Module title					Abbreviation
General Chemistry for Students of Biomedicine					08-CH-BM-152-m01
Module coordinator				Module offered by	
Dean of Studies Chemie (Chemistry)				Institute of Organic Chemistry	
ECTS Method of grading		Only after succ. compl. of module(s)			
8		numerical grade			
Duration		Module level	Other prerequisites		
2 semester		undergraduate			
Contents					
The module teaches the basics of chemistry in theory and practice, with special emphasis on medical refe- rences. Starting with atoms and ending with biochemically relevant macromolecules, theories and principles of chemistry that are essential for the understanding of biochemical processes are dealt with. The focus of the prac- tical course is on basic experimental working techniques and the safe handling of hazardous substances. For this purpose, qualitative and quantitative analyses as well as simple reactions are carried out and interpreted.					
Intended learning outcomes					
Describe and explain the basic models for structure and reactivity of chemical compounds. Draw structural for- mulas and set up reaction equations. Know and apply formulas for the calculation of substance-specific proper- ties and parameters of chemical processes. Carry out and document experiments based on existing protocols. Verify theoretical models based on experimental findings. Explain the relationships between chemical properties and medical effects as well as the chemical background of diagnostic procedures.					
Courses (type, number of weekly contact hours, language — if other than German)					
V (2) + V (2) + P (5)					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 120 minutes) and assessment of practical skills during lab course (ungraded): Vor- testate/Nachtestate (pre and post-experiment oral exams; approx. 15 minutes each) and log (approx. 3 to 5 pa- ges) Assessment offered: Once a year, summer semester					
Allocation of places					
Additional information					
Workload					
240 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Bachelor's degree (1 major) Biomedicine (2015) Bachelor's degree (1 major) Biomedicine (2018) Bachelor's degree (1 major) Biomedicine (2020)					
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