Module description

Module title					Abbreviation
Physical Chemistry 2 for Biochemistry Majors: Thermodynamics, Kinetics,					08-PC2-BC-092-m01
Electrochemistry					
Module coordinator				Module offered by	
lecturer of lecture "Thermodynamik, Kin mie"			netik, Elektroche- Institute of Physical and Theoretical Chemistry		
ECTS	Metho	thod of grading Only after succ. compl. of module(s)			
15 numeric		rical grade			
Duration		Module level	Other prerequisites		
1 semester		undergraduate	By way of exception, additional prerequisites are listed in the section on assessments.		
Contents					
chemical equilibria, ideal and real gasses/solutions/mixed phases and electrochemistry. In addition to thermo- dynamic processes, it discusses the fundamental principles of kinetics. The module gives students the oppor- tunity to apply in practice the knowledge they have gained through the related lecture(s). After a safety briefing, the students autonomously conduct experiments in the laboratory. In addition to those experiments, students will be expected to take oral tests and write lab reports to demonstrate their knowledge.					
Intended learning outcomes					
of chemical reactions. They are able to connect the theoretical principles of thermodynamics, kinetics, electro- chemistry and spectroscopy with practical laboratory experiments. They are able to analyse the resulting measu- rements.					
This module comprises 2 module components. Information on courses will be listed separately for each module					
 component. o8-PC2-BC-2-092: P (no information on SWS (weekly contact hours) and course language available) o8-PC2-1-092: V + Ü (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)					
Assessment in this module comprises the assessments in the individual module components as specified be- low. Unless stated otherwise, successful completion of the module will require successful completion of all indi- vidual assessments.					
 Assessment in module component o8-PC2-BC-2-o92: Physical Chemistry 2 for Biochemistry Majors: Thermodynamics, Kinetics, Electrochemistry 6 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance (log approx. 5 to 10 pages), Nachtestate (post-experiment exams, approx. 15 minutes each) Assessment offered: once a year, winter semester Assessment in module component o8-PC2-1-o92: Thermodynamics, Kinetics, Electrochemistry Thermodynamics, Kinetics, Electrochemistry 9 ECTS, Method of grading: numerical grade a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Other prerequisites: Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence). 					

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Allocation of places

Additional information

Workload

Teaching cycle

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

§ 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"

Module appears in

Bachelor' degree (1 major) Biochemistry (2011) Bachelor' degree (1 major) Biochemistry (2009)

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