

Module title		Abbreviation
Physical Chemistry for engineering students (lecture and laboratory course)		o8-IPC-091-m01
Module coordinator		Module offered by
lab course supervisor "Physikalische Chemie für Studierende der Ingenieurwissenschaften, Praktikum"		Institute of Physical and Theoretical Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
18	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This module provides students with an overview of the theoretical principles of physical chemistry. In addition, it introduces the fundamental techniques of physical chemistry in a lab course.		
Intended learning outcomes		
Students have become familiar with the fundamental principles of physical chemistry. They are able to identify fundamental problems in chemistry and perform experiments to solve them.		
Courses (type, number of weekly contact hours, language – if other than German)		
This module comprises 3 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> • o8-IPC-2-062: V + Ü (no information on SWS (weekly contact hours) and course language available) • o8-IPC-1-091: V + Ü (no information on SWS (weekly contact hours) and course language available) • o8-IPC-3-091: 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)		
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>Assessment in module component o8-IPC-2-062: Physical Chemistry 2 (basics of quantum mechanics and spectroscopy) for engineering students Physical Chemistry 2 (basics of quantum mechanics and spectroscopy) for engineering students</p> <ul style="list-style-type: none"> • 8 ECTS, Method of grading: numerical grade • written examination (approx. 90 minutes) <p>Assessment in module component o8-IPC-1-091: Physical Chemistry 1 (thermodynamics, electrochemistry) for engineering students Physical Chemistry 1 (thermodynamics, electrochemistry) for engineering students</p> <ul style="list-style-type: none"> • 5 ECTS, Method of grading: numerical grade • written examination (approx. 90 minutes) <p>Assessment in module component o8-IPC-3-091: Physical Chemistry for engineering students, laboratory course</p> <ul style="list-style-type: none"> • 5 ECTS, Method of grading: (not) successfully completed • Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each) 		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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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) Technology of Functional Materials (2009)

Bachelor' degree (1 major) Technology of Functional Materials (2010)