

Module title		Abbreviation
Physical Chemistry 1 for engineering students		o8-IPC-122-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 will provide students with an overview of physical chemistry. Furthermore, in a lab course it introduces on the basics techniques of physical chemistry.		
Intended learning outcomes		
German intended learning outcomes available but not translated yet.		
Der/Die Studierende verfügt über grundlegendes Wissen im Bereich der Physikalischen Chemie. Der/Die Studierende ist in der Lage, grundlegende chemische Fragestellungen zu identifizieren und kann diese experimentell lösen.		
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-3-122: 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-3-122: 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), assessment of practical performance (log approx. 5 to 10 pages), Nachtestate (post-experiment exams, approx. 15 minutes) • Assessment offered: once a year, summer semester • Language of assessment: German or English • Only after successful completion of module components: Successful completion of the two module components o8-IPC-1 and o8-IPC-2 is a prerequisite for participation in module component o8-IPC-3. 		
Allocation of places		
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Additional information

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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) Functional Materials (2012)
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