

Module title		Abbreviation
Programming and numerical methods		o8-PKC-152-m01
Module coordinator		Module offered by
lecturer of lecture "Programmierkurs für Chemiker"		Institute of Physical and Theoretical Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This module provides an introduction to the fundamentals of a programming language and discusses how they can be applied to problems in chemistry.		
Intended learning outcomes		
Students are able to describe the fundamentals of the programming language and to apply them to problems in chemistry.		
Courses (type, number of weekly contact hours, language – if other than German)		
S (2) + Ü (2)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Assessment offered: Once a year, summer semester Language of assessment: German and/or English		
Allocation of places		
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Additional information		
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Workload		
150 h		
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) Chemistry (2015) Bachelor' degree (1 major) Functional Materials (2015) Bachelor' degree (1 major) Chemistry (2017) Bachelor' degree (1 major) Functional Materials (2021)		