

Module title		Abbreviation
Teaching Physics in Primary and Secondary General School		11-P-FDDRI-092-m01
Module coordinator		Module offered by
holder of the Chair of Physics and its Didactics		Faculty of Physics and Astronomy
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	Prior completion of module 11-P-E recommended.
Contents		
Justification/legitimation of physics education, educational goals of physics, qualification models and educational standards: elementarisation and didactic reconstruction of physical contents, methods of physics education, media in physics education and their application to support learning. Interdisciplinary aspects of selected topics of biology, chemistry, geography and physics education, corresponding student preconceptions and typical learning difficulties, elementarisation and didactic reconstruction of scientific contents, based on specific contents of school classes.		
Intended learning outcomes		
Knowledge of the legitimation and learning goals of Physics classes; knowledge of possibilities of elementarisation and of methods of Physics classes, knowledge of physical teaching and working material. Advanced qualitative understanding of school-relevant scientific topic areas; knowledge of common approaches, typical student preconceptions and special media on selected topics.		
Courses (type, number of weekly contact hours, language — if other than German)		
Einführung Fachdidaktik 2 (Introduction to Didactics 2): V (1 weekly contact hour) + Ü (1 weekly contact hour), once a year (summer semester) Fächerübergreifender Unterricht (Teaching Interdisciplinary Contents): S (2 weekly contact hours), once a year (summer semester)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
This module has the following assessment components 1. Topics covered in lectures and exercises (Einführung Fachdidaktik 2 (Introduction to Didactics 2)): written examination (approx. 45 minutes) or term paper (approx. 8 pages) or presentation (approx. 30 minutes) or oral examination of one candidate each (approx. 10 minutes) or oral examination in groups (approx. 20 minutes, groups of 2 candidates). 2. Seminar (Fächerübergreifender Unterricht (Teaching Interdisciplinary Contents)): term paper (approx. 8 pages) or presentation (approx. 45 minutes) or log of a class (approx. 6 pages) or written examination (approx. 45 minutes) or oral examination of one candidate each (approx. 15 minutes) or oral examination in groups (approx. 30 minutes). Students must register for assessment components 1 and 2 online (details to be announced). To pass this module, students must pass both assessment component 1 and assessment component 2.		
Allocation of places		
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Additional information		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 36 (1) 7. Didaktik der Grundschule Physik § 38 (1) 1. Didaktik der Hauptschule Physik § 38 (1) 1. Didaktik der Mittelschule Physik § 53 (1) 2. Physik Fachdidaktik § 77 (1) 2. Physik Fachdidaktik		

Module appears in

First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2009)
First state examination for the teaching degree Hauptschule Didactics in Physics (Secondary School) (2009)
First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Secondary School) (2009)
First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2013)
First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2013)