

<b>Module title</b>		<b>Abbreviation</b>
Teaching 1		11-P-FD1-092-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Chair of Physics and its Didactics		Faculty of Physics and Astronomy
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
4	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	Prior completion of module 11-P-E recommended.
<b>Contents</b>		
<p>Student preconceptions and typical learning difficulties in school physics, corresponding teaching methods and techniques to change student preconceptions; epistemological and working methods of physics. 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.</p>		
<b>Intended learning outcomes</b>		
<p>In-depth understanding of school-relevant areas of Physics; knowledge of typical student preconceptions and learning difficulties; knowledge of how to change student preconceptions; knowledge of alternative teaching approaches for selected topics; knowledge of epistemological methods of Physics; knowledge of the legitimation and goals of the school subject Physics; knowledge of elementarising and teaching methods; knowledge of physical teaching and working tools.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
<p>Einführung Fachdidaktik 1 (Introduction to Didactics 1): S (2 weekly contact hours), once a year (summer semester)  Einführung Fachdidaktik 2 (Introduction to Didactics 2): V (1 weekly contact hour) + Ü (1 weekly contact hour), once a year (summer semester)</p>		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>This module has the following assessment components</p> <ol style="list-style-type: none"> <li>1. Seminar (Einführung Fachdidaktik 1/Introduction to Didactics 1): 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).</li> <li>2. 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).</li> </ol> <p>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.</p>		
<b>Allocation of places</b>		
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<b>Additional information</b>		
<p>Important information on number and allocation of places: There is a restricted number of places. Should the number of applications exceed the number of available places, places will be allocated as follows: Places will be allocated according to the number of subject semesters/ECTS credits (1st: studying in 3rd subject semester or higher, 2nd: has achieved a minimum of 50 ECTS credits, and 3rd: highest number of subject semesters if studying in 1st or 2nd subject semester). Among applicants with the same number of subject semesters/ECTS credits, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.</p>		

**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) 1. a) Physik "Grundlagen der Experimentalphysik"  
§ 77 (1) 2. Physik Fachdidaktik

**Module appears in**

First state examination for the teaching degree Grundschule Physics (2009)  
First state examination for the teaching degree Hauptschule Physics (2009)  
First state examination for the teaching degree Realschule Physics (2009)  
First state examination for the teaching degree Gymnasium Physics (2009)  
First state examination for the teaching degree Mittelschule Physics (2013)