**Module title**  
Lab Course B  

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>11-P-PB-L-092-m01</th>
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</thead>
</table>

**Module coordinator**  
Managing Director of the Institute of Applied Physics  

**Module offered by**  
Faculty of Physics and Astronomy  

**ECTS**  
6  

**Method of grading**  
Only after succ. compl. of module(s)  

<table>
<thead>
<tr>
<th>Duration</th>
<th>Module level</th>
<th>Other prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 semester</td>
<td>undergraduate</td>
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**Contents**  
Physical laws of the science of electricity, circuits with electrical components and Atomic and Nuclear Physics.  

**Intended learning outcomes**  
The students have knowledge and skills of physical measuring instruments and experimental techniques. They are able to independently plan and conduct experiments in cooperation with others, and to document the results in a measurement protocol.  

**Courses**  
(type, number of weekly contact hours, language — if other than German)  
Elektrizitätslehre und Schaltungen (Electricity and Circuits, ELS): P (2 weekly contact hours)  
Atom- und Kernphysik (Atomic and Nuclear Physics, AKP): P (2 weekly contact hours)  

**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. Lab course in part 1: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes).  
2. Lab course in part 2: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the course (approx. 30 minutes).  

Students must register for assessment components 1 and 2 online (registration deadline to be announced). Students will be offered one opportunity to retake element a) and/or element b). To pass an assessment component, they must pass both elements a) and b). Students must attend Elektrizitätslehre und Schaltungen (Electricity and Circuits) courses before attending Atom- und Kernphysik (Atomic and Nuclear Physics) courses. 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)  
§ 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie  
§ 53 (1) 1. b) Physik Aufbau der Materie  
§ 53 (1) 1. c) Physik physikalische Grundpraktika  
§ 77 (1) 1. b) Physik "Fortgeschrittene Experimentalphysik"  
§ 77 (1) 1. d) Physik "physikalische Praktika"  

**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)