### Module title
Practical Course B (Physics)

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

### Duration
1 semester

### Module level
undergraduate

### Other prerequisites
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### Contents
Physical laws of optics, vibrations and waves, science of electricity and circuits with electric components.

### Intended learning outcomes
The students know and have mastered physical measuring methods and experimenting techniques. They are able to independently plan and conduct experiments, to cooperate with others, and to document the results in a measuring protocol. They are able to evaluate the measuring results on the basis of error propagation and of the principles of statistics and to draw, present and discuss the conclusions.

### Courses
**Klassische Physik (Classical Physics, KLP):** P (2 weekly contact hours)

**Elektrizitätslehre und Schaltungen (Electricity and Circuits, ELS):** P (2 weekly contact hours)

### Method of assessment
(2010)

**This module has the following assessment components**

1. **Lab course in part 1 (KLP):**
   - 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 (ELS):**
   - 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).

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. c) Physik physikalische Grundpraktika

§ 77 (1) 1. d) Physik "physikalische Praktika"

### Module appears in
**Bachelor’ degree (1 major) Physics (2010)**

**No final examination (2010)**