| Module title | | | Abbreviation |
|---|---|---|---|
| **Basic Practical Course B for Students of Physics (Bachelor of Science and Teaching Degree)** | | | 11-PGA-PGR-072-m01 |
| **Module coordinator** | | **Module offered by** | |
| Managing Director of the Institute of Applied Physics | | Faculty of Physics and Astronomy | |
| **ECTS** | **Method of grading** | **Only after succ. compl. of module(s)** | |
| 6 | (not) successfully completed | -- | |
| **Duration** | **Module level** | **Other prerequisites** | |
| 1 semester | undergraduate | Recommended: 11-PFR | |

**Contents**

Physical laws of mechanics, thermodynamics, optics, science of electricity, vibrations and waves.

**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)

Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity, BAM): P (2 weekly contact hours)
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** (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).
3. Lab course in part 3: 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 through 3 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 successfully complete each of the three courses.
To pass this module, students must pass each of the assessment components 1 through 3.

To pass this module, students must successfully complete two out of the three courses.

**Allocation of places**

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**Additional information**

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**Workload**

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**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) Physics (2007)<br>Bachelor' degree (1 major) Physics (2009)<br>Bachelor' degree (1 major) Physics (2008) |