<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<td>Experimental Physics 7 (Solid State Phenomena [Semiconductor, Superconductivity, Magnetism])</td>
<td>11-E7-072-m01</td>
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**Module coordinator**
Managing Director of the Institute of Applied Physics

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

**ECTS**
4 numerical grade

**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 solid-state phenomena (semiconductors, superconductivity, magnetism)

**Intended learning outcomes**
The students have knowledge of the basic contexts and principles of electronic transport and electrical properties (semiconductors: Doping effects, pn transitions, metal-semiconductor interfaces; superconductivity: phenomenological models, BCS model; magnetism: Dia-, para- and ferromagnetism, mean field description of magnetic order)

**Courses**
V + Ü (no information on SWS (weekly contact hours) and course language available)

**Method of assessment**
written examination (approx. 120 minutes)

**Allocation of places**
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**Additional information**
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**Referred to in LPO I**
(examination regulations for teaching-degree programmes)

**Module appears in**
- Bachelor' degree (1 major) Physics (2007)
- Bachelor' degree (1 major) Physics (2009)
- Bachelor’ degree (1 major) Physics (2008)
- Bachelor’ degree (1 major) Nanostructure Technology (2008)
- Bachelor’ degree (1 major) Nanostructure Technology (2007)
- Bachelor’s degree (1 major, 1 minor) Physics (Minor, 2008)