**phy663 - Specialization I**

<table>
<thead>
<tr>
<th>Module label</th>
<th>Specialization I</th>
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</thead>
<tbody>
<tr>
<td>Module code</td>
<td>phy663</td>
</tr>
<tr>
<td>Credit points</td>
<td>6.0 KP</td>
</tr>
<tr>
<td>Workload</td>
<td>180 h</td>
</tr>
<tr>
<td>Used in course of study</td>
<td>Master's Programme Engineering Physics &gt; Pflichtmodule</td>
</tr>
<tr>
<td>Contact person</td>
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</tbody>
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- Hans Josef Brückner
- Martin Kühn
- Simon Doclo

**Entry requirements**

Acc. selected course

**Skills to be acquired in this module**

The acquisition of knowledge and the strategy for understanding the subject topics is achieved through taught lectures, supervised laboratory sessions, tutorials, seminars, practical demonstrations and personal study presentations on coursework assignments. This module enables the students to emphasize on a field of specialisation in Engineering Physics at the cutting edge of research.

**Module contents**

The course is intended to be integrative, a culmination of knowledge, skills, competencies and experiences acquired in other modules, coupled with further development of these assets.

**Reader’s advisory**

Acc. selected course

**Languages of instruction**

German, English

**Duration (semesters)**

1 Semester

**Module frequency**

halbjährlich

**Module capacity**

unlimited

**Modullevel**

MM-PB (Professionalisierungsbereichsmodul im Master)

**Modulart**

Wahlpflicht

**Lern-/Lehrform / Type of program**

Please check the course descriptions for further information: [http://www.uni-oldenburg.de/ep/](http://www.uni-oldenburg.de/ep/)

**Vorkenntnisse / Previous knowledge**

**Examination**

**Time of examination**

**Type of examination**

**Final exam of module**

Assignments may consist of case studies, practical reports, or reviews of recent research.

Material is introduced through lectures, laboratories, and directed reading and research. Students are given guidance on how to manage their learning, and at each stage in their development they are expected to take responsibility for their own learning.

Acc. selected course

<table>
<thead>
<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
<th>Workload attendance</th>
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</thead>
<tbody>
<tr>
<td>Seminar</td>
<td>Specialization Laser &amp; Optics</td>
<td>4.00</td>
<td>SuSe and WiSe</td>
<td>56 h</td>
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<tr>
<td>Seminar</td>
<td>Specialization Renewable Energies</td>
<td>4.00</td>
<td>SuSe and WiSe</td>
<td>56 h</td>
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<tr>
<td>Seminar</td>
<td>Acoustics</td>
<td>4.00</td>
<td>SuSe and WiSe</td>
<td>56 h</td>
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<tr>
<td>Seminar</td>
<td>&quot;Biomedical Physics&quot; Choose one topic</td>
<td>4.00</td>
<td>SuSe and WiSe</td>
<td>56 h</td>
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**Total time of attendance for the module**

224 h