# phy681 - Tools and Skills for Scientific Engineering

<table>
<thead>
<tr>
<th><strong>Module label</strong></th>
<th>Tools and Skills for Scientific Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Module code</strong></td>
<td>phy681</td>
</tr>
<tr>
<td><strong>Credit points</strong></td>
<td>6.0 KP</td>
</tr>
<tr>
<td><strong>Workload</strong></td>
<td>180 h</td>
</tr>
<tr>
<td><strong>Used in course of study</strong></td>
<td>Master's Programme Engineering Physics &gt; Pflichtmodule</td>
</tr>
<tr>
<td><strong>Contact person</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Module responsibility</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Simon Doclo</td>
</tr>
<tr>
<td></td>
<td>- Walter Neu</td>
</tr>
<tr>
<td><strong>Entry requirements</strong></td>
<td>Acc. selected course</td>
</tr>
<tr>
<td><strong>Skills to be acquired in this module</strong></td>
<td>This module aims to raise the students understanding of the strategic, leadership, and technical aspects of project management and their role in adding competitive advantage to any enterprise. Concepts and techniques for programme and project management are introduced, developed and applied, with the aid of relevant case material. The students learn to consider specific key instrument types in current usage. This will be delivered in a project study format with each instrument being evaluated in terms of operating principle, design, and signal processing.</td>
</tr>
<tr>
<td><strong>Module contents</strong></td>
<td>Acc. selected course</td>
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<tr>
<td><strong>Reader's advisory</strong></td>
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<tr>
<td><strong>Links</strong></td>
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<tr>
<td><strong>Languages of instruction</strong></td>
<td>German, English</td>
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<tr>
<td><strong>Duration (semesters)</strong></td>
<td>1 Semester</td>
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<tr>
<td><strong>Module frequency</strong></td>
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<tr>
<td><strong>Module capacity</strong></td>
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<tr>
<td><strong>Modullevel</strong></td>
<td>MM-PB (Professionalsierungsbereichsmodul im Master)</td>
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<td>Wahlpflicht</td>
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<tr>
<td><strong>Lern-/Lehrform / Type of program</strong></td>
<td>Acc. selected course</td>
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<td><strong>Vorkenntnisse / Previous knowledge</strong></td>
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<td><strong>Examination</strong></td>
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<td>Type of examination</td>
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<td><strong>Final exam of module</strong></td>
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<td><strong>Course type</strong></td>
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<td><strong>Frequency</strong></td>
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<td><strong>Workload attendance</strong></td>
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