inf368 - Aktuelle Themen aus dem Gebiet "Mikrorobotik und Regelungstechnik" I

<table>
<thead>
<tr>
<th>Module name</th>
<th>Aktuelle Themen aus dem Gebiet &quot;Mikrorobotik und Regelungstechnik&quot; I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module code</td>
<td>inf368</td>
</tr>
<tr>
<td>ECTS credit points</td>
<td>3.0 KP</td>
</tr>
<tr>
<td>Workload</td>
<td>90 h</td>
</tr>
</tbody>
</table>
| Used in degree programmes             | Master's Programme Computing Science > Mastermodule
                                                  Master's Programme Embedded Systems and Microrobotics > Akzentsetzungsmodul |
| Contact person                        | module responsibility
                                                  Andreas Hein
                                                  Sergei Fatikow
                                                  Die im Modul Lehrenden
                                                  authorized examiners
                                                  Andreas Hein
                                                  Sergei Fatikow
                                                  Die im Modul Lehrenden
| Prerequisites                         | This module integrates current developments in the field in adequate study courses. |
| Skills to be acquired in this module  | Professional competences
                                                  The students:
                                                  • define and contrast a computer science part, in which they are specialised, in detail or evaluate computer science in general
                                                  • recognise and evaluate applied techniques and methods of their subject and are aware of their limits
                                                  • identify, structure and solve problems/tasks, also in new or developing subject areas
                                                  • apply state of the art and innovative methods to solve problems, if necessary from other disciplines
                                                  • are aware of the current limits and contribute to the development of computer science research and technology
                                                  • discuss and evaluate recent computer science developments
                                                  Methodological competences
                                                  The students:
                                                  • examine tasks with technical and research literature, write an academic article and present their solutions academically
                                                  • evaluate problems/tasks, including new or developing subject areas of their discipline and apply computer science methods for solutions and research
                                                  • schedule time processes and resources
                                                  Social competences
                                                  The students:
                                                  • communicate with users and experts convincingly
                                                  Self-competences
The students:

- pursue the overall and special computer science development critically
- develop and reflect self-developed hypotheses to theories independently

<table>
<thead>
<tr>
<th>Module contents</th>
<th>See assigned course description</th>
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<tbody>
<tr>
<td><strong>Recommended reading</strong></td>
<td>As announced in course</td>
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**Links**

- **Language of instruction**: German
- **Duration (semesters)**: 1 semester
- **Module frequency**: unregelmäßig
- **Module capacity**: Unlimited
- **Module level**: AS (Akzentsetzung / Accentuation)
- **Modulart**: je nach Studiengang Pflicht oder Wahlpflicht
- **Lern-/Lehrform / Type of program**: S or V

**Vorkenntnisse / Previous knowledge**

<table>
<thead>
<tr>
<th>Examination</th>
<th>Examination periods</th>
<th>Type of examination</th>
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<tbody>
<tr>
<td><strong>Final exam of module</strong></td>
<td>At the end of the lecture period</td>
<td>Presentation or oral exam</td>
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<table>
<thead>
<tr>
<th>Course type</th>
<th>course or seminar</th>
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<table>
<thead>
<tr>
<th>SWS</th>
<th>2</th>
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<tbody>
<tr>
<td><strong>Workload attendance</strong></td>
<td>28 h</td>
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