inf355 - Special Topics in 'Hybrid Systems' II

**Module name**  
Special Topics in 'Hybrid Systems' II

**Module code**  
inf355

**ECTS credit points**  
6.0 KP

**Workload**  
180 h

**Used in degree programmes**  
- Master's Programme Computing Science > Mastermodule
- Master's Programme Embedded Systems and Microrobotics > Akzentsetzungsmodule

**Contact person**  
module responsibility
- Andreas Hein
- Martin Georg Fränzle

authorized examiners
- Andreas Hein
- Martin Georg Fränzle
- Die im Modul Lehrenden

**Prerequisites**

**Skills to be acquired in this module**  
This module integrates current developments in the field in adequate study courses.

**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:

- evaluate and apply tools, technology and methods sophisticatedly
- combine new and original approaches and methods creatively
- evaluate problems/tasks, including new or developing subject areas of their discipline and apply computer science methods for solutions and research

**Social competences**  
The students:

- support team process by their abilities

**Self-competences**  
The students:
- pursue the overall and special computer science development critically
- implement innovative professional activities effectively and independently

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

<table>
<thead>
<tr>
<th>Language of instruction</th>
<th>German</th>
</tr>
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<tbody>
<tr>
<td>Duration (semesters)</td>
<td>1 semester</td>
</tr>
<tr>
<td>Module frequency</td>
<td>unregelmäßig</td>
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<tr>
<td>Module capacity</td>
<td>Unlimited</td>
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<tr>
<td>Modulelevel</td>
<td>AS (Akzentsetzung / Accentuation)</td>
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<tr>
<td>Modulart</td>
<td>je nach Studiengang Pflicht oder Wahlpflicht</td>
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<tr>
<td>Lern-/Lehrform / Type of program</td>
<td>2 courses out of V, S, Ü, P, PR</td>
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**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>Final exam of module</td>
<td>At the end of the lecture period</td>
<td>Exercises or presentation or oral exam</td>
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<tr>
<th>Course type</th>
<th>Course selection</th>
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<tbody>
<tr>
<td>SWS</td>
<td>2</td>
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<tr>
<td>Workload attendance</td>
<td>28 h</td>
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