inf354 - Special Topics in 'Hybrid Systems' I

Module label: Special Topics in 'Hybrid Systems' I
Module code: inf354
Credit points: 6.0 KP
Workload: 180 h

Used in course of study:
- Master's Programme Computing Science > Technische Informatik
- Master's Programme Embedded Systems and Microrobotics > Akzentsetzungsmodule

Contact person:
Module responsibility
- Andreas Hein
- Martin Georg Fränzle
- Die im Modul Lehrenden

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

Entry requirements
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

Module contents
See assigned course description, e.g. „Modellbasierte Systementwurf“, „Konstruktionsprinzipien ausgewählter Klassen von Fahrzeugfunktionen“

Reader's advisory
As announced in course

Links
Language of instruction: German
Duration (semesters): 1 Semester
Module frequency: halbjährlich
Module capacity: unlimited
<table>
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<tr>
<th>Modul level</th>
<th>AS (Akzentsetzung / Accentuation)</th>
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<tr>
<td>Modulart</td>
<td>je nach Studiengang Pflicht oder Wahlpflicht</td>
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<td>Lern-/Lehrform / Type of program</td>
<td>2 courses out of V, S, Ü, P, PR</td>
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<tr>
<th>Examination</th>
<th>Time of examination</th>
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<th>Exercises or presentation or oral exam</th>
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<td>Final exam of module</td>
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| SWS | 2.00 |
| Frequency | SuSe or WiSe |
| Workload attendance | 28 h |