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. „Modellbasierter 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
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<thead>
<tr>
<th>Modullevel</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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<tr>
<td>Lern-/Lehrform / Type of program</td>
<td>2 courses out of V, S, Ü, P, PR</td>
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<td>Vorkenntnisse / Previous knowledge</td>
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<td>Examination Time of examination Type of examination</td>
<td>Final exam of module At the end of the lecture period Exercises or presentation or oral exam</td>
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