inf352 - Current Topics in 'Safety-Critical Systems' I

Module label: Current Topics in 'Safety-Critical Systems' I
Module code: inf352
Credit points: 3.0 KP
Workload: 90 h

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

Contact person:
- Module responsibility: Andreas Hein, Die im Modul Lehrenden
- Authorized examiners: Andreas Hein, Die im Modul Lehrenden

Entry requirements:
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

**Module contents**
See assigned course description

**Reader’s advisory**
As announced in course

**Links**

**Language of instruction**
German

**Duration (semesters)**
1 Semester

**Module frequency**
unregelmäßig

**Module capacity**
unlimited

**Modul level**
AS (Akzentsetzung / Accentuation)

**Modulart**
je nach Stufengang Pflicht oder Wahlpflicht
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<thead>
<tr>
<th><strong>Lern-/Lehrform / Type of program</strong></th>
<th>S or V</th>
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<tr>
<td><strong>Vorkenntnisse / Previous knowledge</strong></td>
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<tr>
<td>Examination</td>
<td>Time of examination</td>
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<td>Final exam of module</td>
<td>At the end of the lecture period</td>
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<td><strong>Course type</strong></td>
<td>Course or seminar</td>
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<td><strong>SWS</strong></td>
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<tr>
<td><strong>Frequency</strong></td>
<td>SuSe or WiSe</td>
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<td><strong>Workload attendance</strong></td>
<td>28 h</td>
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