inf351 - Special Topics in 'Safety-Critical Systems' II

Module label: Special Topics in 'Safety-Critical Systems' II
Module code: inf351
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 > Akzentsetzungsmodulle

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:
- 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. „Sicherheitsanalysentechniken“, „Modellbasierter Systementwurf“, ...

Reader’s advisory:
As announced in course

Links

Language of instruction: German
Duration (semesters): 1 Semester
Module frequency: halbjährlich
Module capacity: unlimited
Modullevel: AS (Akzentsetzung / Accentuation)
Modulart: je nach Studiengang Pflicht oder Wahlpflicht
<table>
<thead>
<tr>
<th>Lern-/Lehrform / Type of program</th>
<th>2 courses out of V, S, Ü, P, PR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vorkenntnisse / Previous knowledge</td>
<td>Examination</td>
</tr>
<tr>
<td>Final exam of module</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course type</th>
<th>Course selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWS</td>
<td>4.00</td>
</tr>
<tr>
<td>Frequency</td>
<td>SuSe or WiSe</td>
</tr>
<tr>
<td>Workload attendance</td>
<td>56 h</td>
</tr>
</tbody>
</table>