inf366 - Special Topics in 'Microrobotics and Control Engineering' I

Module label: Special Topics in 'Microrobotics and Control Engineering’ I
Module code: inf366
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
- Sergei Fatikow
- Die im Modul Lehrenden

Authorized examiners:
- Andreas Hein
- Sergei Fatikow
- 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. „Nanomontage und Nanohandhabung”

Reader's advisory
As announced in course

Links

Language of instruction
German

Duration (semesters)
1 Semester

Module frequency
jährlich

Module capacity
unlimited
<table>
<thead>
<tr>
<th>Modullevel</th>
<th>AS (Akzentsetzung / Accentuation)</th>
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<tbody>
<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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<table>
<thead>
<tr>
<th>Examination</th>
<th>Time of examination</th>
<th>Type of examination</th>
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<tr>
<td>Final exam of module</td>
<td>The exam period will be announced during the course</td>
<td>Portfolio or presentation or oral exam</td>
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<th>Course type</th>
<th>Course selection</th>
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| SWS                          | 2.00                                 |
| Frequency                    | SuSe or WiSe                         |
| Workload attendance          | 28 h                                 |