inf113 - Operating Systems II

Module label: Operating Systems II
Module code: inf113
Credit points: 6.0 KP
Workload: 180 h
Used in course of study:
- Master’s Programme Business Informatics > Bereichswahlmodule
- Master’s Programme Computing Science > Praktische Informatik

Contact person:
Module responsibility
- Oliver Theel
- Die im Modul Lehrenden

Authorized examiners
- Oliver Theel
- Die im Modul Lehrenden

Entry requirements
Skills to be acquired in this module
The aim of the module “Operating Systems 2” is to convey further knowledge and skills regarding the conception, implementation, and evaluation of operating systems.

Professional competence:
The Students:
- assess in detail what an operating system is able to do
- recognize the problems in the implementation of operating systems
- identify and evaluate implementations of further subproblems and apply them

Methodological competence:
The Students:
- transfer implementation concepts to other contexts
- critically question different solutions with regard to their properties

Social competence:
The Students:
- solve problems partly in small groups
- present own potential solutions to the exercise group
- discuss their different potential solutions within the exercise group

Self-competence:
The Students:
- accept criticism
- reflect their own potential solutions taking into account the methods taught

Module contents
The module conveys the following contents:
1) additional aspects of file systems
2) Input/output control
3) User representation
4) Advanced synchronization concepts
5) User interfaces
6) Job scheduling
7) Architectures of operating systems
8) Examples of operating systems

Reader’s advisory

Links
<table>
<thead>
<tr>
<th>Language of instruction</th>
<th>German</th>
</tr>
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<tbody>
<tr>
<td>Duration (semesters)</td>
<td>1 Semester</td>
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<tr>
<td>Module frequency</td>
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<td>Module capacity</td>
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<td>Module level</td>
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<td>Modulart</td>
<td>je nach Studiengang Pflicht oder Wahlpflicht</td>
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<tr>
<td>Lern-/Lehrform / Type of program</td>
<td>Operating Systems I</td>
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<tr>
<td>Vorkenntnisse / Previous knowledge</td>
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</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Examination</th>
<th>Time of examination</th>
<th>Type of examination</th>
<th>written or oral exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final exam of module</td>
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</tr>
<tr>
<td>Course type</td>
<td>Comment</td>
<td>SWS</td>
<td>Frequency</td>
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<tr>
<td>Lecture</td>
<td>2.00</td>
<td>WiSe</td>
<td>28 h</td>
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<tr>
<td>Exercises</td>
<td>2.00</td>
<td>WiSe</td>
<td>28 h</td>
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Total time of attendance for the module: 56 h