inf520 - Management of Information Systems in Health Care

Module label: Management of Information Systems in Health Care
Module code: inf520
Credit points: 6.0 KP
Workload: 180 h

Used in course of study:
- Master's Programme Business Informatics > Bereichswahlmodule
- Master's Programme Computing Science > Angewandte Informatik

Contact person:
- Module responsibility: Rainer Röhrig
- Die im Modul Lehrenden

Authorized examiners:
- Rainer Röhrig
- Die im Modul Lehrenden

Entry requirements:
Skills to be acquired in this module:

- Professional competence:
  - The students:
    - know healthcare information systems and their functions
    - know clinical software architectures and apply their IT strategies
    - know and apply system integration standards, methods (including medical technology) and risk management
    - know and apply clinical information systems and maintain them
    - know the legal and regulatory framework (including data privacy) for the operation of healthcare IT systems
    - implement simple data analyses on care data
    - know and apply procurement processes and changes

- Methodological competence:
  - The students:

- Social competence:
  - The students:
    - reflect on and become more familiar with the different hospital roles (IT-manager, IT-employer, hospital supervisors, clinician, manager) and their interests

- Self-competence:
  - The students:
    - reflect their solutions by using methods learned in this course and present them appropriately

Module contents:

- Basics of the healthcare system
- Basics of the medical documentation
- Healthcare information systems / clinical information systems / intensive care information systems (PDMS)
- PDMS parameters, including interface terminology and semantic standards
- Data privacy and security
- System integration and interoperability (HL7, …)
- Hospital financing / DRG-System: regulatroy framework and implementation
- Care data analyses
- Requirements engineering
- Procurement project and risk management

Reader’s advisory

Links
<table>
<thead>
<tr>
<th>Language of instruction</th>
<th>German</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration (semesters)</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Module frequency</td>
<td>jährlich</td>
</tr>
<tr>
<td>Module capacity</td>
<td>unlimited</td>
</tr>
<tr>
<td>Module level</td>
<td>AS (Akzentsetzung / Accentuation)</td>
</tr>
<tr>
<td>Modulart</td>
<td>je nach Studiengang Pflicht oder Wahlpflicht</td>
</tr>
</tbody>
</table>
| Vorkenntnisse / Previous knowledge | - Medizin für Informatiker 
- Informationssysteme / Datenbanken |

<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>
<td>At the end of the lecture periode</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
<th>Workload attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td></td>
<td>3.00</td>
<td>SuSe</td>
<td>42 h</td>
</tr>
<tr>
<td>Exercises</td>
<td></td>
<td>1.00</td>
<td>SuSe</td>
<td>14 h</td>
</tr>
</tbody>
</table>

| Total time of attendance for the module | 56 h |