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
### Language of instruction
German

### Duration (semesters)
1 Semester

### Module frequency
jährlich

### Module capacity
unlimited

### Module level
AS (Akzentsetzung / Accentuation)

### Modulart
je nach Studiengang Pflicht oder Wahlpflicht

### Lern-/Lehrform / Type of program
- Medizin für Informatiker
- Informationssysteme / Datenbanken

### Vorkenntnisse / Previous knowledge

### Examination

<table>
<thead>
<tr>
<th>Final exam of module</th>
<th>Time of examination</th>
<th>Type of examination</th>
<th>Written or oral exam</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>At the end of the lecture periode</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Course type

<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