inf008 - Information Systems II

Module label: Information Systems II
Module code: inf008
Credit points: 6.0 KP
Workload: 180 h

Used in course of study:
- Bachelor's Programme Business Informatics > Aufbaumodule
- Bachelor's Programme Computing Science > Akzentsetzungsmodul
- Bachelor's Programme Economics and Business Administration > Studienrichtung Wirtschaftsinformatik
- Master's Programme Business Informatics > Bereichswahlmodule

Contact person:
Module responsibility
- Marco Grawunder

Authorized examiners:
- Marco Grawunder
- Die im Modul Lehrenden

Entry requirements:

Skills to be acquired in this module:
The Module "Information Systems II" enhances the knowledge and the concepts of "Information Systems I".

Professional competence:
The students:

- Know further concepts, languages and architectures of databases
- Analyse advanced information processing tasks
- Analyse complex requirements of information systems appropriately
- Realize information requirements and gather relevant information

Methodological competence:
The students:

- Propose concrete processing principles for special application classes
- Reflect specific technologies' consequences and proceedings

Social competence:
The students:

Self-competence:
The students:

- Reflect their problem-solving behaviour with regard to extended information processing concepts

Module contents:

- Implementation of databases (architecture, index structures, query processing and optimization)
- Data integration and data analysis (data integration, data warehouses, data mining)
- Information retrieval
- Parallel databases

Reader's advisory:
Suggested reading:

- Härder, T.,Rahm, E.: Datenbanksysteme - Konzepte und Techniken der Implementierung, Morgan Kaufmann
- U. Leser, F. Naumann. Informationsintegration: Architekturen und Methoden zur Integration
verteilter und heterogener Datenquellen. dpunkt
- Bauer/Günzel. Data-Warehouse-Systeme, dpunkt
- Han/Kamber/Pei. Data Mining: Concepts and Techniques, Morgan Kaufmann

### Links
- Language of instruction: German
- Duration (semesters): 1 Semester
- Module frequency: jährlich
- Module capacity: unlimited
- Module level: AS (Akzentsetzung)
- Module type: Wahlpflicht
- Lern-/Lehrform / Type of program: VL + Ü

### Examination
- Final exam of module: At the end of the lecture period
- Type of examination: written or oral Exam

<table>
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<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
<th>Workload attendance</th>
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<tbody>
<tr>
<td>Lecture</td>
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<td>3.00</td>
<td>SuSe</td>
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<tr>
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### Total time of attendance for the module
- 56 h