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 > Akzentsetzungsmodule
- 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

Vorkenntnissse / Previous knowledge

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<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>At the end of the lecture period</td>
<td>written or oral Exam</td>
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<th>SWS</th>
<th>Frequency</th>
<th>Workload attendance</th>
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Total time of attendance for the module: 56 h