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 > Bereichswahlsfachmodul

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       |
|               | Modullevel              | AS (Akzentsetzung) |
|               | Modulart                | Wahlpflicht     |
|               | Lern-/Lehrform / Type of program | VL + Ü |

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<th>Examination</th>
<th>Time of examination</th>
<th>Type of examination</th>
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<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>Frequency</th>
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**Total time of attendance for the module**: 56 h