inf653 - ERP Technologies

Module label: ERP Technologies
Module code: inf653
Credit points: 6.0 KP
Workload: 180 h

Used in course of study:
- Master of Education Programme (Vocational and Business Education) Computing Science
  - Mastermodule
- Master's Programme Business Informatics > Akzentsetzungsmodule Bereich Wirtschaftsinformatik
- Master's Programme Computing Science > Angewandte Informatik

Contact person:
- Module responsibility
  - Jorge Marx Gomez
- Die im Modul Lehrenden

Authorized examiners:
- Jorge Marx Gomez
- Die im Modul Lehrenden

Entry requirements:
Skills to be acquired in this module
Learning objectives:

- Generation of understandings into the working approaches and tasks of ERP systems
- Examining components of ERP systems
- Generating knowledge about important aspects of the operation processes of ERP systems, such as data storage and processing, user management, and system maintenance.

Professional competence:
The students:

- describe ERP systems in compliance with functions and technologies
- identify state-of-the-art and future architectures of ERP systems
- discuss the usage of core technologies (also in practical case studies, for example with SAP NetWeaver)

Methodological competence:
The students:

- categorize fundamental technologies in combination with other enterprise-wide information systems
- apply the presented methods in practical contexts

Social Competence:
The students:

- construct solutions to given problems in groups
- present solutions to computing science problems before groups

Self-competence:
The students:

- recognize the limits of their capacity in implementing and customizing of business application systems

Module contents:
The module provides the following content:

- Overview of the components of ERP systems and their functionality and administration
- In-depth analysis of ERP system architecture under consideration of surface structures and user management in ERP systems, with focus on data storage, particularly the used data models and database structures, backup and recovery strategies
• Deployment of ERP applications in form of application service providing, including the technical characteristics of this business model, especially Special Administration, delimitation and monitoring tasks for systems, which at the same time be provided several customers.

Lecture will be accompanied by SAP case studies.

Reader's advisory

• Gronau (2004): Enterprise Resource Planning und Supply Chain Management, Oldenbourg, München

Links

Language of instruction: German
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: unlimited
Modullevel: AS (Akzentsetzung / Accentuation)
Modulart: je nach Studiengang Pflicht oder Wahlpflicht
Lern-/Lehrform / Type of program: V+Ü

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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>End of lecture period</td>
<td>Written exam</td>
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<th>Comment</th>
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<th>Frequency</th>
<th>Workload attendance</th>
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<td>Exercises</td>
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Total time of attendance for the module: 56 h