inf653 - ERP Technologies

<table>
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<tr>
<th>Module name</th>
<th>ERP Technologies</th>
</tr>
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<tbody>
<tr>
<td>Module code</td>
<td>inf653</td>
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<tr>
<td>ECTS credit points</td>
<td>6.0 KP</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
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| Used in degree programmes | - Master of Education Programme (Vocational and Business Education) Computing Science > Mastermodule
|                      | - Master's Programme Business Informatics > Akzentsetzungsmodul Bereich Wirtschaftsinformatik
|                      | - Master's Programme Computing Science > Mastermodule |

**Contact person**

- module responsibility
  - Jorge Marx Gomez
  - Die im Modul Lehrenden

**Prerequisites**

**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 of 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.

Recommended reading

• 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

Modulelevel
AS (Akzentsetzung / Accentuation)

Modulart
je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program
V+Ü

Vorkenntnisse / Previous knowledge

Examination

Examination periods
End of lecture period

Type of examination
Written exam

Course type
Comment
SWS
Course frequency
Workload attendance

Lecture
2

28 h
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<th>Comment</th>
<th>SWS</th>
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<td>Exercises</td>
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**Total attendance time for module**  56 h