

## Module Description

### IN2276: Reference models for financial service institutions

TUM Department of Informatics

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<b>Module level:</b> Master	<b>Language:</b> German/English	<b>Module duration:</b> one semester	<b>Occurrence:</b> winter semester
<b>Credits*:</b> 4	<b>Total number of hours:</b> 120	<b>Self-study hours:</b> 75	<b>Contact hours:</b> 45

\* The number of credits can vary depending on the corresponding SPO version. The valid number is always indicated on the Transcript of Records or the Performance Record.

#### Description of achievement and assessment methods:

Type of Assessment: presentation

The module examination is based on a term paper (70 %) and a presentation (30 %). By writing the term paper, students have to demonstrate a deep understanding of reference modelling techniques in Information Systems Research. Therefore they need to apply Business Modelling techniques (BM-Canvas, e<sup>3</sup>-value), Process Models (EPK, BPMN) and Entity-Relationship-Models (ERM) to describe the 'is-state' of selected organizations or business processes. They then need to identify a "target-state" and discuss its reference characteristics. By presenting their reference model of a selected organization or business process, students have to demonstrate their knowledge about reference modelling. Therefore they need to convince the audience about the advantages of their reference model. Both the term paper and the presentation are prepared in groups of 3 - 6 students.

<b>Exam type:</b> Presentation	<b>Exam duration (min.):</b> not specified	<b>Possibility of re-taking:</b> In the next semester: Yes At the end of the semester: No	<b>Homework:</b> No
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<b>Lecture:</b> No	<b>Conversation:</b> No	<b>Written paper:</b> No
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#### (Recommended) requirements:

Introductory knowledge of Information Systems

#### Contents:

The course address the following topics:

- Foundations of reference models
- Reference modelling methods (e<sup>3</sup>value, EPK, ERM)
- Information systems in production (material planning, time and capacity planning)
- Introduction to bank information systems
- Core banking systems
- stock exchange systems
- Information systems for loan processing
- Transaction banking
- customer relationship management

#### Study goals:

After successful completion of the module, students have obtained an overview of enterprise information systems and

banking information systems. Students will understand the key relationships between information systems of selected business functions and how they are integrated. They are able to analyze reference processes of financial service institutions and apply different reference modelling methods to design or improve reference models. Furthermore, the students can practice their presentation skills, rethorics and moderation skills.

**Teaching and learning methods:**

Interactive lectures with beamer presentation and class room discussions.

Exercise classes to practice the use of selected reference modelling methods and discuss their implementation for the term paper.

Guest lectures by practitioners.

**Media formats:**

Presentation slides

**Literature:**

Kurbel, K.: Produktionsplanung und –steuerung im Enterprise Resource Planning und Supply Chain Management, 6. Edition, Oldenbourg Verlag, München Wien 2005

Mertens, P., Integrierte Informationsverarbeitung, 16. Edition, Gabler, Wiesbaden, 2007

Scheer, A.-W.: Wirtschaftsinformatik - Referenzmodelle für industrielle Geschäftsprozesse, 7. Edition, Springer-Verlag, Berlin-Heidelberg-New York, 1997

Stahlknecht, P.; Hasenkamp, U.: Einführung in die Wirtschaftsinformatik, 10. Edition, Springer-Verlag 2002, Kapitel 7: Anwendungssysteme

**Responsible for the module:**

Krcmar, Helmut; Prof.: [helmut.krcmar@mytum.de](mailto:helmut.krcmar@mytum.de)

**Courses (Type, SH) Lecturer:**

0000000525 Reference Models for Financial Service Institutions (FIM) (IN2276) (4SWS L, WS 2016/17)  
Böhm M [L], Böhm M

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For further information about this module and its allocation to the curriculum see:  
<https://campus.tum.de/tumonline/wbModHb.wbShowMHBRReadOnly?pKnotenNr=768302>

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