Data Warehousing and Business Intelligence

Kennnummer	Workload	Credits/LP	Studiensemester	Häufigkeit des Angebots	Dauer
	180 Std.	6	2	Nur Wintersemester	1 Semester

1	Lehrveranstaltungen	Sprache	Kontaktzeit	Selbststudium	Geplante Gruppengröße
	a) Data Warehousing and Business Intelligence	a) English	a) 45 Std.	a) 135 Std.	a) 15

2 Lernergebnisse/Kompetenzen

Nach erfolgreicher Teilnahme am Modul können die Studierenden ...

Wissen (1)
... Demonstrate a broad and integrated knowledge and understanding of the concepts, technologies, and issues associated with data warehousing environment and business intelligence.

Verständnis (2)
... Classify the relevant types of technological and business aspects and drivers.
... Understand process characteristics of data warehouse environment and business intelligence applications.

Anwendung (3)
... Use a range of routine and specialist skills and techniques to design and implement an application capable of providing business intelligence.
... Select and apply appropriate methodological and architectural needs to define business case and business intelligence prototype.

Analyse (4)
... Analyse selected data warehouse environment and business intelligence needs, described in a case studies (As-is and to-be concept, excel prototype) .

Synthese (5)
... Implementing business case concept by using business intelligence software.

Evaluation / Bewertung (6)
... Evaluate opportunities and threads of BI usage and implementation.
... Offer professional level insights, interpretations and solutions to problems and issues associated with the development of a data warehousing environment and business intelligence applications for a given case by using software well known in todays business environment.

3 Inhalte

a)
- Data Warehousing Perspectives
- Business Case and BI Project Management
- Data Warehouse Technical Architecture
- Data Attributes and Dimensional Data Modelling

	- Data Governance and Metadata Management - Data Sources and Data Quality Management - Data Integration - Business Intelligence Operations and Tools - Presenting Data: Scorecards and Dashboards - Testing, Rolling Out, and Sustaining the Data Warehouse
4	**Lehrformen** a) Seminar
5	**Teilnahmevoraussetzungen** - Basic principles in business administration and business information systems. - Basic principles in database systems.
6	**Prüfungsformen** a) Prüfungsleistung 1K (50%) (Klausur) (6 LP insgesamt für alle Teilprüfungsleistung dieser Lehrveranstaltung)[1] a) Prüfungsleistung 1sbA (50%) (Praktische Arbeit)[1]
7	**Verwendung des Moduls** Business Consulting M.Sc. (BCM)
8	**Modulbeauftragte/r und hauptamtlich Lehrende** Prof. Dr. Monika Frey-Luxemburger (Modulverantwortliche/r)
9	**Literatur** a) Imhoff, Claudia; Galemmo, Nicholas; Geiger, Jonathan G.: Mastering data warehouse design : relational and dimensional techniques, Wiley 2003 Inmon, William H.: Building the data warehouse, 4. ed., Wiley 2005 Kimball, Ralph; Caserta, Joe: The data warehouse ETL toolkit : practical techniques for extracting, cleaning, conforming, and delivering data, Wiley 2004 Kimball, Ralph; Ross, Margy: The data warehouse toolkit : the complete guide to dimensional modeling, 2. ed., Wiley 2002 Moss, Larissa Terpeluk; Atre, Shaku: Business intelligence roadmap : the complete project lifecycle for decision-support applications, Addison-Wesley 2003 Haertzen, David (2012): The analytical puzzle. Profitable data warehousing, business intelligence and analytics. 1. ed. Westfield, NJ: Technics Publications.

[1] Diese Prüfungsleistung ist nur bestanden, wenn alle Teilprüfungsleistungen mit mindestens "ausreichend" (4,0) bewertet werden.