Data Warehouse Technologies

Winter

(in German: Data Warehouse Technologies)

Module-ID: FIN-INF-102808

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
DWT	6	Winter	starting at 1.	1 Semester	english	Master

Link:	LSF
Limited accessability:	
Responsibility:	Gunter Saake
Lecturer:	David Broneske
Classes:	• Lecture *Introduction to Data Warehousing* • Exercise *Introduction to Data Warehousing*
Applicability in curriculum:	- M.Sc. INF: Informatik - M.Sc. INGINF: Informatik - M.Sc. WIF: Wirtschaftsinformatik - M.Sc. WIF: Informatik - M.Sc. DKE: Data Processing for Data Science - M.Sc. DE: Fachliche Spezialisierung

Intended learning outcomes:
The students ...

- understand the data warehousing approach
- understand technologies in the field of data warehouses

- can use data warehouse specific DBMS functionalities
- can design and develop data warehouse applications

Content:

- The data warehouse approach
- Architecture and differences to traditional Database Management
- The Extract-Transform-Load process
- OLAP and the Multidimensional data model
- Application of the model in database systems
- Query execution and optimization
- Index and Storage structures for data warehouses
- Buisiness Intelligence on data warehouses

Workload:
56 contact hours + 124 h self study

Pre-examination requirements:	**Type of examination:**	**Teaching method / lecture hours per week (SWS):**
	Written exam (120 min)	• 2 SWS Lecture • 2 SWS Exercise class

Prerequisites according to examination regulations:	**Recommended prerequisites:**
keine	Modules Datenbanken 1/Database Concepts and Datenbanken 2

Media:	**Literature:**
	Data Warehouse Technologien. Veit Köppen, Gunter Saake, Kai-Uwe Sattler. 2. Auflage, mitp-Verlag, 2014

Comments:

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