# Introduction to Data Warehousing

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*<br>• Exercise *Introduction to Data Warehousing* |
| **Applicability in curriculum:** | - M.Sc. INF: Informatik<br>- M.Sc. INGINF: Informatik<br>- M.Sc. WIF: Wirtschaftsinformatik<br>- M.Sc. WIF: Informatik<br>- M.Sc. DKE: Data Processing for Data Science<br>- 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<br>• 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:**

Revision #1
Created 2026-10-01 07:34:24 UTC by Fakultät für Informatik
Updated 2026-10-01 07:34:24 UTC by Fakultät für Informatik