

Module title Data Warehouse				
Module code DW	Level Bachelor (B.Sc.)	Hours per week 4	ECTS credits 5	Duration 1 semester
Module instructor Prof. Dr. Schicker	Lecture type Interactive seminar with exercises	Prerequisite(s) Foundations of databases Good academic standing		Grading Final exam
Objectives <ul style="list-style-type: none"> • Students know the internal structure of Data Warehouse, they know the OLAP process with the corresponding performance problems and the necessary loads from the production operation • The students can independently apply this knowledge by setting up small to medium sized data warehouse, triggering ETL and OLAP processes, and designing and using queries 				
Content <ul style="list-style-type: none"> • Definition of data warehouse and system design • Multidimensional data modeling, data schemas, consistency • Identify performance problems, performance optimizations • Design of a data warehouse model, ETL process, OLAP queries 				
Textbook/teaching material <ul style="list-style-type: none"> • Bauer/Günzel: Data-Warehouse-Systeme, dPunkt, 2004 • Kimball/Ross: The Data Warehouse Toolkit, John Wiley & Sons, 2002 • Mehrwald: Datawarehousing mit SAP BW, dPunkt Verlag, 2005 • Schicker: Vorlesungsskript 				

Note: this is not the official course description according to the "Studien- und Prüfungsordnung" (SPO)