Scientific Project on Databases for Multi-Dimensional Data, Genomics, and modern Hardware

every

(in German: Scientific Project on Databases for Multi-Dimensional Data, Genomics, and modern Hardware)

Module-ID: FIN-INF-120507

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
SPDB	6	every	starting at 1.	1 Semester	english	Master

Link:	LSF
Limited accessability:	true
Responsibility:	Gunter Saake
Lecturer:	Gunter Saake
Classes:	Lecture *Scientific Project on Databases for Multi-Dimensional Data, Genomics, and modern Hardware*

Applicability in curriculum:	- M.Sc. INF: Schlüssel- und Methodenkompetenzen - M.Sc. INGINF: Schlüssel- und Methodenkompetenzen - M.Sc. WIF: Schlüssel- und Methodenkompetenzen - M.Sc. DKE: Applied Data Science - M.Sc. DE: Interdisziplinäres Team-Projekt - M.Sc. DE: Fachliche Spezialisierung

Intended learning outcomes:
The students ...

- work and coordinate in a team
- write academic papers
- present scientific results
- acquire knowledge of an advanced research topic on their own
- self-sufficiently develop solutions on selected topics of databases or their applications
- assess their own work critically

Content:

- Scientific writing
- Survey of research literature
- Advanced research topics in the area of databases, genomics and modern hardware

Workload:
contact hours: 14h lectures + 8h presentations + 14h consultations
self study: 60h implementation + 24h presentations + 30h papers

Pre-examination requirements:	Type of examination:	Teaching method / lecture hours per week (SWS):
	Seminar paper (Referat)	• Lecture (2 SWS) • Supervision (2 SWS)

Prerequisites according to examination regulations:	Recommended prerequisites:
none	Programming Knowledge in C++, Python, Java or Rust

Media:	Literature:

Comments:
Requirement: Passing an initial programming test

Revision #1
Created 2026-10-20 17:05:19 UTC by Fakultät für Informatik
Updated 2026-10-20 17:05:19 UTC by Fakultät für Informatik