# 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 |

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|---|---|
| **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* |

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|---|---|
| **Applicability in curriculum:** | - M.Sc. INF: Schlüssel- und Methodenkompetenzen<br>- M.Sc. INGINF: Schlüssel- und Methodenkompetenzen<br>- M.Sc. WIF: Schlüssel- und Methodenkompetenzen<br>- M.Sc. DKE: Applied Data Science<br>- M.Sc. DE: Interdisziplinäres Team-Projekt<br>- 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)<br>• 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

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