# Scientific Teamproject KMD

every

(in German: Wissenschaftliches Teamprojekt KMD )

## Module-ID: FIN-INF-120528

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

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|---|---|
| **Link:** | LSF |
| **Limited accessability:** | false |
| **Responsibility:** | Myra Spiliopoulou |
| **Lecturer:** | Myra Spiliopoulou |
| **Classes:** | Teamproj_KMD |
| **Applicability in curriculum:** | - M.Sc. INF: Informatik<br>- M.Sc. INF: Schlüssel- und Methodenkompetenzen<br>- M.Sc. INGINF: Informatik<br>- M.Sc. INGINF: Schlüssel- und Methodenkompetenzen<br>- M.Sc. WIF: Wirtschaftsinformatik<br>- M.Sc. WIF: Informatik<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<br>- M.Sc. DE: Digital Engineering-Projekt<br>- M.Sc. VC: Computer Science<br>- M.Sc. VC: Schlüssel- und Methodenkompetenzen |

**Intended learning outcomes:**
**When completing this module successfully, the students can:** * solve a realistic data mining and data engineering task in teamwork * assess the business implications (costs and benefits) of a solution they propose * built-up a team and organize themselves in it, distributing subtasks among

themselves according to their competences, setting milestones and pursuing a joint schedule * search for scientific papers of relevance * search appropriate libraries for data preparation, learning and visualization * design a learning workflow, apply AI methods and evaluate the induced models * develop a software solution jointly, using public domain tools * justify their design decisions and software suite selections * present their work as a team * write a joint report where they summarize and justify their approachBitte nachtragen nach neuen Constructive Alignment Vorgaben.

**Content:**
**CONTENT:** Assignment in the form of a realistic task that involves the analysis of static or dynamic, structured or unstructured data with mining methods, including supervised, unsupervised and semi-supervised methods, stream miners, forecasters and elaborate AI tools. The assignment involves design, development and evaluation of a software solution in teamwork. **STRUCTURE:** The assignment is for a team of students, typically three; for larger teams, the assignment is extended to ensure that the effort of each student is 6 ECTS. The students are called to solve the task as a team. The task involves understanding a realistic problem, designing, developing and evaluating a solution for it, presenting this solution to the class, defending it and documenting it on paper.

**Workload:**
For each team member: 28 h in class (including meetings) + 124 h self-study The teamproject is typically for three students. For larger teams, the assignments is extended to ensure that the effort of each team member is as above.

| Pre-examination requirements: | Type of examination: | Teaching method / lecture hours per week (SWS): |
|---|---|---|
| | • Wissenschaftliches Projekt, implementiert als eine Hausarbeit, die ein Referat beinhaltet<br><br>**COURTESY TRANSLATION:**<br>This module implements the exam form 'Wissenschaftliches Projekt' as a 'Hausarbeit' which incorporates a 'Referat'. | Wissenschaftliches Teamprojekt (2 SWS) |

| Prerequisites according to examination regulations: | Recommended prerequisites: |
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|---|---|
| keine | • Familiarity with advanced mining methods for static data and (for some assignments) for streams<br>• Familiarity with software development and software libraries<br>• Underpinnings of project management |

| Media: | Literature: |
|---|---|
| | Literature depends on topic assignment and is given to each team together with the assignment |

**Comments:**
Als Implementierung des generischen **PFLICHTMODULS** "Wissenschaftliches Teamprojekt" entsprechend anrechenbar. **COURTESY TRANSLATION:** This module implements the **COMPULSORY** generic module 'Wissenschaftliches Teamprojekt'.

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Revision #1
Created 2026-10-01 07:38:55 UTC by Fakultät für Informatik
Updated 2026-10-01 07:38:55 UTC by Fakultät für Informatik