Module Guide
39-M-Inf-RDM

Technische Fakultät

Version dated Dec 10, 2025

This module guide reflects the current state and is subject to change. Up-to-date information and the latest version of this document can be found online via the page

https://ekvv.uni-bielefeld.de/sinfo/publ/modul/79251504

The current and valid provisions in the module guide are binding and further specify the subject-related regulations (German "FsB") published in the Official Announcements of Bielefeld University.

39-M-Inf-RDM Research Data Management

Faculty

Technische Fakultät

Person responsible for module

Herr Prof. Dr. Philipp Cimiano

Regular cycle (beginning)

Every winter semester

Credit points

5 Credit points

Competencies

Non-official translation of the module descriptions. Only the German version is legally binding.

The module presents an introduction into the motivation, challenges and solutions of managing research data. Students will learn the principles of research data management and its importance for good scientific practice. Students will acquire an overview of the organizational, technical and legal aspects of managing research data. Students will learn to create a data management plan to organize and structure their own data management activities.

Content of teaching

The module teaches strategies and tools for efficient documentation, back-up, long-term archiving, publication, retrieval and re-use of research data. Based on real-life case studies from the participants' disciplines, these will be applied and tested.
The foundations of good scientific practice and the ideas of Open Science will be discussed. In addition, legal aspects of privacy protection and intellectual property issues will be presented.
Hands-on demonstrations, group discussions and individual presentations by the participants will root the acquired knowledge in the participants? own research work to ensure it?s the practical applicability of the acquired competences of research data management. As part of the course, students will create their own data management plan to organize one of their own research projects.

Recommended previous knowledge

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Necessary requirements

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Explanation regarding the elements of the module

In some degree programmes, the module (partial) examination can also be "ungraded" at the student's discretion. A corresponding specification must be made before the module is taken; a subsequent change (graded - ungraded) is not possible. If the ungraded option is selected, it is not possible to use this module for a degree programme in which this module is taken into account in the overall grade calculation.

Module structure: 0-1 bPr, 0-1 uPr [1]

Courses

Title	Type	Regular cycle	Workload [5]	LP[2]
Research Data Management	seminar	WiSe	90 h (30 + 60)	3

Examinations

Allocated examiner	Type	Weighting	Workload	LP[2]
Person responsible for module examines or determines examiner *In some degree programmes of the Faculty of Technology, the module examination can also be "ungraded" at the student's discretion (see explanations of the module elements and the respective subject-specific regulations). If the ungraded option is selected, it is not possible to use this module for a degree programme in which this module is taken into account in the overall grade calculation.* *See below for explanations of this examination (graded examination option).*	Hausarbeit	without grades	60h	2
Person responsible for module examines or determines examiner *Participants will create a written research data management plan (5-10 pages) that describes the data management aspects of one of their own research projects.* *(The research data management plan may be graded upon request.)*	Hausarbeit	1	60h	2

Legend

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1	The module structure displays the required number of study requirements and examinations.
2	LP is the short form for credit points.
3	The figures in this column are the specialist semesters in which it is recommended to start the module. Depending on the individual study schedule, entirely different courses of study are possible and advisable.
4	Explanations on mandatory option: "Obligation" means: This module is mandatory for the course of the studies; "Optional obligation" means: This module belongs to a number of modules available for selection under certain circumstances. This is more precisely regulated by the "Subject-related regulations" (see navigation).
5	Workload (contact time + self-study)
SoSe	Summer semester
WiSe	Winter semester
SL	study requirement
Pr	Examination
bPr	Number of examinations with grades
uPr	Number of examinations without grades