Mathematics M5e

Summer

(engl. Mathematics M5e)

Module-ID: FMA-INF-5013292

Link:	**(Angeboten wenn im LSF)**
Responsibility:	Prof. Dr. Thomas Kahle
Lecturer:	, Prof. Dr. Thomas Kahle
Classes:	Lecture Mathematics M5e Global tutorial Mathematics M5e Group tutorial Mathematics M5e

Credit Points	Semester	Term	Duration	Language	Level
5	Summer	3.	1 Semester	english	Bachelor

Goals and qualifications:
The students acquire comprehension of and familiarity with concepts and methods that are relevant for subject-specific classes in computer science. They develop technical skills by applying those methods, in particular to subject-specific examples. The topical focus of the module is on discrete and algebraic structures, and algorithmic aspects.

Content:

- Algebraic structures
- Combinatorics, graphs
- Foundations of Optimization
- Numerical solving
- Geometric methods

Workload:

	In class	self-study
Lecture	3 SWS / 42 h	66 h

	In class	self-study
Global tutorial	2 SWS / 28 h	
Group tutorial	1 SWS / 14 h	

Prerequisites for participation:	Pre-examination requirements:	Type of examination:

Applicability in curriculum:	- B.Sc. INF: Mathematik / Theoretische Informatik - B.Sc. INF: Mathematik (SPO 2027) - B.Sc. CV: Mathematik / Theoretische Informatik - B.Sc. CV: Mathematik (SPO 2027) - B.Sc. INGINF: Mathematik / Theoretische Informatik - B.Sc. INGINF: Mathematik (SPO 2027) - B.Sc. WIF: Verstehen - Pflicht - B.Sc. WIF: Mathematik (SPO 2027) - B.Sc. INF (bilingual): Mathematik / Theoretische Informatik - B.Sc. INF (bilingual): Mathematik (SPO 2027)

Comments:

Revision #1
Created 2026-11-20 10:26:52 UTC by Fakultät für Informatik
Updated 2026-11-20 10:26:52 UTC by Fakultät für Informatik