

Module Handbook (<https://modhb.uni-kl.de/>)

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Course MAT-43-RC-K-7

Reading Course Advanced Topics in Algebra and Number Theory (2S, 12.0 LP)

Course Type

SWS	Type	Course Form	CP (Effort)	Presence-Time	Self-Study
2	S	Reading course	12.0 CP	28 h	332 h
(2S)			12.0 CP	28 h	332 h

Basedata

SWS	2S
CP, Effort	12.0 CP = 360 h
Position of the semester	1 Sem. in WiSe/SuSe
Level	[7] Master (Advanced)
Language	[DE/EN] German or English as required
Lecturers	Fieker, Claus, Prof. Dr. (PROF DEPT: MAT) (/staff/13/) Horn, Max, Prof. Dr. (PROF DEPT: MAT) (/staff/650/) Malle, Gunter, Prof. Dr. (PROF DEPT: MAT) (/staff/25/) Thiel, Ulrich, Prof. Dr. (PROF DEPT: MAT) (/staff/38/) + further Lecturers of the department Mathematics
Area of study	[MAT-AGCA] Algebra, Geometry and Computer Algebra
Additional informations	Informations about the course (https://www.mathematik.uni-kl.de/agag/lehre/)
Lifecycle-State	[NORM] Active

Notice

Depending on the workload agreed / to be performed, also other amounts of CP can be awarded.

Possible Study achievement

- Verification of study performance: **proof of successful participation in the reading course**
- Details of the examination (type, duration, criteria) will be announced at the beginning of the course.

Certificate by successful participation in the reading course. If only a part of the course is successfully attended, credit points can be awarded pro rata. The number of credit points earned can be seen from the certificate of achievement (Schein).

Contents

Advanced topics in the field of Algebra and Number Theory.

Typically, current research topics, research topics with current application relevance or also classical topics that cannot be covered in a lecture are treated.

Literature

will be announced together with the reading course.

Requirements for attendance (informal)

Depending on the choice of topic, further courses from the Bachelor's programme or the Master's programme in Mathematics may be required. The requirements will be announced together with the announcement of the reading course.

Modules:

- [MAT-10-1-M-2] Fundamentals of Mathematics (M, 28.0 LP) (/mhb/modules/MAT-10-1-M-2/)
- [MAT-40-11-M-4] Commutative Algebra (M, 9.0 LP) (/mhb/modules/MAT-40-11-M-4/)

Courses

- [MAT-12-11-K-2] Algebraic Structures (2V+2U, 5.5 LP) (/mhb/courses/MAT-12-11-K-2/)
- [MAT-12-22-K-3] Introduction to Algebra (2V+1U, 4.5 LP) (/mhb/courses/MAT-12-22-K-3/)

Requirements for attendance (formal)

None

References to Course [MAT-43-RC-K-7]

Course-Pool	Name
[MAT-RC-KPOOL-7 (/mhb/coursepools/MAT-RC-KPOOL-7/)]	Reading Courses Mathematics (Master)