COURSE DETAIL

ALGEBRAIC STRUCTURES
Country Sweden
Host Institution Lund University
Program(s) Lund University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 130
UCEAP Course Suffix
UCEAP Official Title ALGEBRAIC STRUCTURES
UCEAP Transcript Title ALGEBRAIC STRUCTURS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

The course reviews number theory including the fundamental theorem of arithmetic, modular, and arithmetic; groups including definition, basic examples of groups, subgroups, normal subgroups, factor groups, isomorphisms, and homomorphisms, Lagrange's theorem, permutation groups, symmetric and alternating groups, finitely generated Abelian groups; rings including definition, basic examples of rings, isomorphisms and homomorphisms, ideals, factor rings, polynomial rings, factorization of polynomials as products of irreducible polynomials; and fields including characteristic, simple field extensions, finite fields.

Language(s) of Instruction
English

Host Institution Course Number
MATM31

Host Institution Course Title
ALGEBRAIC STRUCTURES

Host Institution Course Details
https://www.lunduniversity.lu.se/lubas/i-uoh-lu-MATM31

Host Institution Campus
Lund

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department
Math

Course Last Reviewed
2023-2024

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