COURSE DETAIL

NUMBER THEORY
Country Sweden
Host Institution Lund University
Program(s) Lund University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 140
UCEAP Course Suffix
UCEAP Official Title NUMBER THEORY
UCEAP Transcript Title NUMBER THEORY
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

The course treats multiplicative number theoretic functions, Möbius inversion formula, properties of Euler's totient function, primitive roots and indices, quadratic residues, the Legendre symbol and it's properties, the quadratic reciprocity theorem, representations of integers as sums of squares, number theoretic properties of the Fibonacci sequence, continued fractions, Diophantine approximation.

Language(s) of Instruction
English

Host Institution Course Number
MATC35

Host Institution Course Title
NUMBER THEORY

Host Institution Course Details
https://kursplaner.lu.se/pdf/kurs/en/MATC35

Host Institution Campus
Lund

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department
Math

Course Last Reviewed
2024-2025

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