MATH 514-FINITE FIELDS AND APPLICATIONS -FALL-2023-2024
SABANCI UNIVERSITY

Instructor: Nurdagül Anbar Meidl
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Office: FENS G047
Lectures: Monday: 14:40-17:30 in FENS L048
Office Hours: By appointment

TEACHING METHOD
The lectures will be physical.

TEXTBOOK
We will not have a textbook. However, if you like, you can read the following book.
Introduction to Finite Fields and their Applications by Rudolf Lidl and Harald Niederreiter

COURSE CONTENT

LEARNING OUTCOME
On completion of this course successfully, students should be able to:

Have a sound knowledge of construction of finite fields, bases, irreducible polynomials over finite fields
Use the results and constructions relevant to finite fields, vector spaces, and field extensions, covered in this course

Communicate logically coherent proofs, and problem solutions

Appreciate the applications of this theory

**GRADING**
1 Midterm: %30  
1 Final: %30  
1 Project: %40

**EXAM POLICY**
There will be 1 Midterm, 1 Final, and 1 Project during the semester. Midterm and final exams will be in the form of a written exam, in-person, and on campus. The exams are closed book. This means that during the exam, the use of books, notes, electronic devices (including cell phones, smart watches, calculators, computers, etc.), or any other kind of supporting learning material is NOT allowed. A student violating this rule will receive 0 points for that exam.

**MAKE-UP EXAMS**
If a student misses an exam, then s/he has to have a medical report by Sabancı Medline covering the exam date. Otherwise, it will be counted as “0”. With a valid excuse, contact the instructor immediately explaining your situation.