

The Department of Mathematics

2019-20-A term

Course Name Topics in Field Theory and Galois Theory

Course Number 201.1.4321

Course web page

https://www.math.bgu.ac.il//en/teaching/fall2020/courses/topics-in-field-theory-

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Office Hours https://www.math.bgu.ac.il/en/teaching/hours

Abstract

Requirements and grading¹

Course topics

- .1 Ordered fields: Hilbert's 17 problem, orderings and preorderings, sums of squares, real closed fields, Artin-Schreier theory
- .2 Infinite Galois theory: profinite groups, the Galois correspondence in the infinite case
- .3 Introduction to Galois cohomology

¹Information may change during the first two weeks of the term. Please consult the webpage for updates