The Department of Mathematics
2021–22–A term

Course Name  Introduction to Commutative Algebra
Course Number  201.1.7071
Course web page  https://www.math.bgu.ac.il/en/teaching/fall2022/courses/intro-comm-algebra

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

Abstract

Requirements and grading

Course topics

1. Rings and ideals (revisited and expanded).
3. Noetherian rings and modules over them.
4. Hilbert’s basis theorem.
5. Finitely generated modules over PID.
6. Hilbert’s Nullstellensatz.
7. Affine varieties.
8. Prime ideals and localization. Primary decomposition.

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