

The Department of Mathematics

2017-18-B term

Course Name Homological Algebra

Course Number 201.2.2091

Course web page

https://www.math.bgu.ac.il/~amyekut/teaching/2017-18/hom-alg/course_page.html

Lecturer Prof. Amnon Yekutieli, <amyekut@bgu.ac.il>, Office 202

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

Abstract

Requirements and grading¹

Course topics

Course Topics:

- .1 Categories and functors: natural transformations, equivalence, adjoint functors, additive functors, exactness.
- .2 Derived functors: projective, injective and flat modules; resolutions, the functors Ext and Tor; examples and applications.
- .3 Nonabelian cohomology and its applications.

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