

## The Department of Mathematics

2015–16–A term

**Course Name** Derived categories I

**Course Number** 201.2.0361

**Course web page**

[http://www.math.bgu.ac.il/~amyekut/teaching/2015-16/der-cats-I/course\\_page.html](http://www.math.bgu.ac.il/~amyekut/teaching/2015-16/der-cats-I/course_page.html)

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

### Abstract

### Requirements and grading<sup>1</sup>

### Course topics

- .1 Review of abelian categories and additive functors.
- .2 Differential graded rings, modules and categories.
- .3 The derived category of a differential graded category.
- .4 Derived functors. Resolutions of differential graded modules.

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