

Category theory

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Timetable: 12 hrs. First lecture on March 4, 2013, 14:00 (dates already fixed, see the calendar), Torre Archimede, Room 2BC/30.

Course requirements: Standard notions on rings and modules.

Examination and grading: Oral examination.

SSD: MAT/02 Algebra

Aim: To get a basic mathematical knowledge in Category Theory with particular regard to applications in noncommutative algebra.

Course contents:

Categories and functors. Limits, colimits, adjunctions. Additive categories: Abelian and Grothendieck categories. Functor categories. Representation theorems.