



TOPOLOGIA ALGEBRICA

MAT/03 - 6 CFU - 2° Semester

Teaching Staff

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LEARNING OBJECTIVES

Fundamental aspects of Algebraic Topology. Principal objects of the study are the homotopy theory and the singular homology groups.

COURSE STRUCTURE

Lectures with slides. Discussion and correction of exercises.

If the teaching is given in a mixed or remote mode, the necessary changes may be introduced with respect to what was previously stated, in order to respect the program envisaged and reported in the syllabus.

DETAILED COURSE CONTENT

Basic facts on algebraic topology. Homotopy theory. Degree of a function between n -spheres. Brouwer's theorem in general form. Singular homology groups. The exact sequence of a pair. Mayer-Vietoris's sequence. Another proof of Brouwer's theorem. Jordan's theory in general form.

TEXTBOOK INFORMATION

1. Professor's notes
2. "Topologia" by M. Manetti.
3. W. Massey "Singular homology theory"
