

# **SYLLABUS**

SUBJECT **Topology**

TEACHER **Prof dr hab Michał Zariczny**

## **COURSE DESCRIPTION**

FUNDAMENTAL OBJECTS OF GENERAL TOPOLOGY: METRIC AND TOPOLOGICAL SPACES, CONTINUOUS MAPS, TOPOLOGICAL INVARIANTS. ELEMENTS OF ALGEBRAIC TOPOLOGY: FUNDAMENTAL GROUP AND ITS APPLICATIONS.

## **LEARNING OUTCOMES**

The student should know and understand basic notions of topology and apply them in analysis and geometry.

## **GRADING POLICY**

PARTICIPATION IN CLASS. EXAMINATION.

## **TIMETABLE**

2 hours per week

## **TEXTBOOK AND REQUIRED MATERIALS**

John L. Kelley *General Topology*, (1976) Springer Verlag.

Allen Hatcher, *Algebraic topology*. Cambridge University Press 2002.

## **PREREQUISITES:**

Analysis, algebra and geometry, set theory.