UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Inference Principles

2122-1-F7601M075-F7601M065M

Learning objectives

The course aims at introducing and illustrating the concepts and tools of Probability and Statistics needed for inferential applications.

Contents

Probability measures and random variables.

Confidence intervals and statistical tests.

Detailed program

Random events and probability measures.

Discrete and continuous random variables.

Random sampling and theory of estimation.

Confidence intervals for means and proportions.

Statistical tests for means and proportions.

Goodness of fit and independence tests.

Prerequisites

None.

Teaching methods

Lectures and tutorial sessions.

Assessment methods

Written and oral exams.

The written exam aims at testing the problem-solving ability while the oral exam aims at evaluating the theoretical skills.

The overall mark is the average of the marks obtained in the two exams.

Textbooks and Reading Materials

Scott M. Lynch, “Using Statistics in Social Research”, Springer, 2013.

Lecture notes available on the e-learning platform.

Semester

The course is scheduled in the first semester.

Teaching language

Italian.