



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Statistica (complementi)

2425-3-E1801M046-E1801M066M

Learning objectives

The aim of the course is to introduce basic problems in statistical inference and to provide the main concepts and tools of statistical inference. The interplay among the contents of the course will be exemplified through examples.

Contents

The main concepts and basic tools of statistical inference.

Detailed program

- Main concepts of probability theory
- Random variables
- Some probabilistic models: Bernoulli and binomial distributions, Poisson distribution, normal distributions, chi-squared, t-Student's distributions and their approximations
- Sampling distributions: an overview
- Point estimate, confidence interval, and hypothesis testing: theory and examples.

Prerequisites

Main concepts of univariate and bivariate descriptive statistics.

Teaching methods

Face-to-face lectures in the delivery mode.

Assessment methods

Thw will be just the final exam.

The exam is written and includes multiple choice questions and numeric exercises (using a non-programmable calculator and statistical tables). The aim of the exam is to evaluate the knowledge of the concepts and their application.

Textbooks and Reading Materials

Cicchitelli, D'urso, Minozzo. Statistica: principi e metodi, Ed. Pearson.

Semester

First semester

Teaching language

Italian

Sustainable Development Goals

QUALITY EDUCATION
