UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Complementary Statistics-1-2

2324-3-E1801M046-E1801M066M-T1-T2

Learning objectives

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

Contents

The main concpets and basic tools of statistical inference.

Detailed program

- Main concpets of probability theory
- Random variables
- Some probabilistic models: Bernoulli and binomial distributions, Poisson distribution, normal distributions, chi-squared distributions and their approximations
- Samplng distributions: an overview
- Point estimate, confidence interval, and hypothesys testing: theory and examples.

Prerequisites

Main concepts of univariate and bivariate descriptive statistics.

Teaching methods

42 lecture hours including some lectures devoted to exercizes

Assessment methods

Thw will be just the final exam.
The exam is written and includes multuple choice questions and exercizes. The aim of the exam is to assay the knoledge of tne concepts and their application.

Textbooks and Reading Materials

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

Semester

1

Teaching language

italian

Sustainable Development Goals