



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 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 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

42 lecture hours including some lectures devoted to exercises

Assessment methods

Thw will be just the final exam.

The exam is written and includes multiple choice questions and exercises. The aim of the exam is to assay the knowledge of the 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
