UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Statistics in Sperimental and Technological Research

2627-1-K0101D002-K0101D004M

Aims

The primary goal of the course is to provide the basic tools of statistics in experimental research.

Contents

The process of inference: point estimation and sampling distributions; interval estimation and confidence intervals; the test of hypothesis.

Detailed program

Hypothesis testing: the logic of hypothesis testing; type I and II errors, p-value; confidence intervals and hypothesis testing: statistical vs clinical significance; example of tests.

Prerequisites

Defined by the degree regulation.

Teaching form

4 lessons of two hours with lectures and exercises.

Textbook and teaching resource

Bland M (2013) Statistica Medica, Apogeo
Pagano M., Gauvreau M. (2003) Biostatistica,Idelson-Gnocchi;
Bossi A., Cortinovis I. (1996) Statistica medica. Esercitazioni, Città Studi Edizione.

Semester

First year, first semester

Assessment method

Open Response Questions (with numerical exercises) and multiple choice test

Office hours

Agreed with teacher by e-mail.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | DECENT WORK AND ECONOMIC GROWTH