

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

# **SYLLABUS DEL CORSO**

# Statistica per la Ricerca Sperimentale e Tecnologica

2324-1-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**

Lectures and practicals

# 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