UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

## Medical Statistics

**2223-1-I0202D005-I0202D015M**

### Aims

Basic knowledge of the most important statistical-methodological tools of basic study design and descriptive statistics through practical implementation.

The student will be able to: understand the main concepts of study design, implement descriptive statistical analyses, undestand descriptive statistical analyses.

### Contents

Basic tools of descriptive statistics.

### Detailed program

- Basic lexicon: population, variables and measurement, main types of measures, formal measurement theory, sample (**chapter 2**)
- Descriptive tools: tables and diagrams for nominal data, tables and graphs for numerical scores, typical errors (**chapter 3**)
- Numerical description: central trend indicators, variability indicators (**chapter 4**)
- Distributions of numerical scores: normal distribution, asymmetry and kurtosis, discrete probability distributions (**chapter 5**)

## Prerequisites

Listed in the syllabus of the whole course.

## Teaching form

Listed in the syllabus of the whole course.

## Textbook and teaching resource

- Howitt, D., & Cramer, D. (2020). Introduzione alla statistica per psicologia (7 ed.) (M. Benassi, R. Bolzani, & G. Rossi, a cura di). Pearson Italia. Ebook available at this link , standard book available at this link
- Software SPSS downloadable from

## Semester

Listed in the syllabus of the whole course.

## Assessment method

Listed in the syllabus of the whole course.

## Office hours

Listed in the syllabus of the whole course.

## Sustainable Development Goals