



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Laboratorio Metodi della Psicologia con Esperienze di Ricerca

2425-2-E2401P142

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#### Learning area

Methods, techniques, and instruments for psychology

#### Learning objectives

The course aims to provide a foundation of knowledge on the main methodologies used in psychology, focusing on the following learning objectives:

- understanding and articulating clearly and precisely the research question in psychological contexts;
- exploring and evaluating the various types of research designs used in psychology, and understanding the inferences associated with each type of design;
- acquiring practical skills in constructing and evaluating measurement instruments used to collect psychological data;
- analyzing and discussing the generalizability of results obtained from psychological studies, considering implications for professional practice and future research.

#### Contents

1. development of the research question
2. types of research designs and inferences from results in psychology
3. construction of measurement instruments
4. generalizability of results

## Detailed program

### The Research Question

Precisely defining and specifying the research question, possibly articulated into multiple sub-questions.  
Types of research questions.

### The Study Design

Experimental designs  
Cross-sectional or correlational designs  
Longitudinal studies

### Measurement: A deep dive into tests and questionnaires

Constructing a psychological measurement instrument  
Evaluating reliability and validity  
Choosing an appropriate instrument  
Test norms  
Score interpretation and measurement error

### Limits to Generalizability

The sample  
The manipulations  
The instruments used

## Prerequisites

Basic knowledge of psychometrics (those acquired through attending the Elements of Psychometrics with Software course).

For the academic year 2024/2025 it will not be possible to select this laboratory as a single-course entry.

## Teaching methods

The course is structured as follows:

- 16 hours of laboratory sessions (approximately divided equally between traditional teaching and interactive teaching)
- 8 hours of practical sessions/exercises (interactive teaching)
- Participation in studies across various fields of psychological research (interactive teaching) for a total of 2 experimental CFUs

## Assessment methods

Learning will be assessed by requiring the writing of a scientific report based on the content learned during the laboratory activities.

## **Textbooks and Reading Materials**

Instructions will be provided via e-learning at the beginning of the course.

## **Sustainable Development Goals**

QUALITY EDUCATION

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