



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Methods of Psychology With Research Experiences

2425-2-E2401P142

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
