



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Laboratorio Metodi della Psicologia con Esperienze di Ricerca

2526-2-E2401P142

Learning area

Methods, techniques, and instruments for psychology

Learning objectives

Knowledge and Understanding

- Know the main research methodologies used in psychology and understand the reasons for their use
- Know the basic concepts of psychological measurement and understand the underlying principles

Applying Knowledge and Understanding

- Clearly and precisely articulate research questions in psychological contexts
- Explore and evaluate different types of research designs used in psychology, and understand the inferences associated with each design

Autonomy of Judgment

- Acquire practical and theoretical skills in the construction and evaluation of measurement instruments used to collect psychological data

Communication Skills

- Analyze and discuss the generalizability of findings from psychological studies
- Communicate the strengths and weaknesses of various psychological designs and measures

Learning Skills

- Understand and be able to consider the implications of different research designs and measurement properties 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).

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
