UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Quantitative Methods For Developmental Psychology

2122-2-F5103P089

Learning area

methodological knowledge and practical application of psychometric instruments

Learning objectives

Theoretical knowledge and comprehension

1 Analysis of variance

2 Factor Analysis

3 Regressione analysis

4 Reliability and validity of tests for the school domain

Skills required to apply knowledge and comprehension

1 Analyse datasets according to the above analyses

2 Analyse the method followed in recently published articles

Contents

Overview of basic statistics relying on available software (SPSS, JAMOVI, Jasp); introduction to data anlysis techniques for devolping questionnairs in school enviroenmente; Field research with small samples.

Detailed program

one way and twoways Analysis of variance, simple and repeated measures

Least squares and optimal regression

Categorical factor analysis (Correspondence analysis)

Analysis of covariance

Prerequisites

Basic knowledge of statistics: factor analysis, regression analysis , one way ANOVA. Z-score; principles of statistical inference; reliability of psychometric measures

Teaching methods

Lectures on theory and examples of current literature. Hands-on exercises with software.

Lessons will be held in presence, unless further COVID-19 related restrictions are imposed.

Assessment methods

Written examinations, with multiple choice questions, analysis with software ; comments on one ore more articles drawn from current literature.

Textbooks and Reading Materials

Detailed information about learning materials will be made availables on the related e-learning course page