



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Analisi Multivariata dei Dati

2122-1-F5104P001

Learning area

Techniques and methodologies for psychosocial research

Learning objectives

Knowledge and understanding

- Statistics for correlation data
- Statistics for experimental data
- Simple and complex relationships among different types of variables
- Basics of measurement in psychology
- Psychological measures properties

Applying knowledge and understanding

- Ability to analyze data collected in different research designs
- Understanding and evaluating third-party statistics and their quality
- Estimating and understanding simple and complex relationships among variables.

- Employing and evaluating different types of psychological measures
- Mastering of SPSS software

Contents

An overview of several statistical techniques and methodological concepts is provided, giving the student the ability to collect and analyze data in a wide range of research situations. Univariate and multivariate statistical techniques are presented, with emphasis on the interpretation of results. Fundamental concepts related with measurement in psychology are also discussed.

Detailed program

Class activities

- Statistical models and inferential statistics
- The general linear model
- Mediation and moderation
- Statistics for repeated-measures designs
- Generalized linear model
- Measurement theory
- Implicit and explicit measures
- Validity and reliability
- Factor analysis

Practice Labs

Practice with SPSS statistical software and hands-on exercises with real data.

Prerequisites

Descriptives statistics (measures of central tendency and dispersion); Basics of inferential statistics; regression and correlation; t-test

Teaching methods

Theoretical and practical classes. In the theoretical lessons the foundations of the statistical techniques are _____

Practice sections in the computer labs with analyses of real data and discussion.

Although this course is held in Italian, for Erasmus students, the course material is available also in English, and students can take the exam in English if they wish to do so.

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

Assessment methods

Written final test with multiple-choice questions and open-end questions based on data analyses. Optional oral ____

During the Covid-19 emergency, exams will be conducted according to the University's regulations regarding the ____

Textbooks and Reading Materials

textbook: Gallucci, M. Leone L Berlingeri, M (2017). Modelli statistiche per le scienze sociali. Milano: Pearson _

In addition to the textbook, learning materials is available on the course page in the elearning platform
