### BRIEF COURSE DESCRIPTION
Quantitative applied and theoretical interpretation of sociological phenomena based on quantitative data. Moreover the student will learn the open source statistical software R to conduct in autonomy the quantitative analyses.

### REQUIREMENTS
Basic knowledge of statistics and computer science.

### COURSE AIMS
Aim of the course is to introduce the students into quantitative methods to analyze social data by using the open source software R.

### TEACHING METHODOLOGY
Theoretical lessons will be combined with the use of the statistical software R in way to learn how to implement a quantitative analysis.

### ASSESSMENT TYPE
The evaluation will be written with a multiple choice test. The prerequisite will be the development of a small report (max 10 pages) using the main arguments of the course. The student have to apply the quantitative analyses (monovariate, bivariate, PCA) to a dataset that can download from the link available at: formazioneonline.unisalento.it

**The report have to be send to the instructor 5 days before the exam.**

The test will be composed of 10 questions: 1 open question about the results obtained in the report; 4 questions on R Software; 5 question on theoretical part.
1) **Teaching objectives**

Aim of the course is to introduce the students into quantitative methods to analyze social data. In details the student will learn the following arguments:

- Monovariate Analysis
- Bivariate Analysis
- Statistical Tests
- Principal Component Analysis

All the argument will be treated from theoretical/interpretation point of view. Moreover all the arguments will be treated also with the open source software R.

**REFERENCE TEXT BOOKS**

All the material is available at: formazioneonline.unisalento.it