Quantitative Methods

We want to analyze data sets. In these case studies we become acquainted with statistical inferences and we will learn how to use SPSS (Statistical Product and Service Solution) and how to comment the results.

Syllabus:

1. Introduction
2. Statistical Analysis
3. Test of Stochastic Independence
4. Measures of Association
5. Goodness-of-Fit Test Normal Distribution
6. Test of Homogeneity of Two Variances
7. Test on Two Means
8. Regression Analysis (Multiple Linear, Binary Logistic, Multinomial Logistic, Ordinal)
9. Graphical Summaries of Data
10. Analysis of Variance
11. Kruskal-Wallis Test
12. Principal Components Analysis
13. Cluster Analysis (Hierarchical, K-Means, Two-Step)

At the end of this course there will be an open-book written test that takes 30 minutes.

My lecture notes are offered for sale, price $\approx$ 14 Euro. (Printing cost only, I do not make money out of the lecture notes)