COURSE: DATA ANALYSIS IN R – FOR SOCIAL, HUMANITIES AND BIOMEDICAL RESEARCH

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Main topics:
- Introduction to the basis of the R, RStudio and concept of open source packages
- Application of R in social sciences, biomedicine and humanities
- Basic statistics (tables and figures), inferential and multivariate statistical procedures
- Reports and writing manuscript with knitr

Programme structure:
- 5-day course
- Sample data will be provided for practice and for final presentation
- Every student gets lecture notes bound into a booklet, as well as a CD containing a digital version of the booklet

Important dates:
Course dates: 31/08/2020 – 04/09/2020
Deadline for application: 01/06/2020
Payment due by: 10/06/2020
Confirmation of the course: 15/06/2020

Price of the course: 300 € (tax included)

Programme plan:
Day 1
- Introduction to the basis of R (1h)
- Installing R, RStudio and loading packages from CRAN. Loading and saving data, storing text data, numbers and vectors (2h)

Day 2
- Data frames, matrices and manipulation with data and variables. (1h)
- Individual work/exercise (3h)

Day 3
- Descriptive statistics (measures of central tendency and variability) – tables, drawing graphs – differences among packages (1h)
- Individual work/exercise (3h)

Day 4
- Inferential statistics through categorical data analysis, comparing means and variances: tables and drawing graphs for T – test, ANOVA, correlations, nonparametric procedures (1h)
- Individual work/exercise (3h)

Day 5
- Multivariate statistics, psychometric theory, and latent structure of data (Item analysis, regression model, factor analysis, SEM) (1h)
- Final presentations (3h)

Programme lecturer:
Dr Goran Kardum, Full Professor, University of Split
Faculty of Humanities and Social Sciences
Croatian Scientific Bibliography