

education
workshops & seminars

Statistical analysis in Practice

by Theodoros Papaioannou

Academic period 2013-2014 on Mondays

Seminar series on "Statistical analysis of data in practice". The main objectives of the seminars are the understanding of basic principles and their application regarding:

- Research methodology and design
- Design of questionnaires
- Design and development of databases
- Data entry and processing using statistical software (SPSS)
- How to make statistical hypothesis
- Selection of proper statistical tests for different hypotheses
- Statistical analysis of qualitative and quantitative data
- Evaluation and presentation of statistical results

After the completion of seminars the attendees will have comprehended the main statistical principles and more importantly will be able to design research protocols and questionnaires, construct databases, formulate statistical hypotheses, chose the proper statistical test, process data and perform statistical analysis in SPSS, explain and present properly the statistical results.

The Seminars are offered to under- and post-graduate students, researchers, professionals who manage and analyzed data.

The series of the Seminars consist of several separate independent seminars, each lasting 4 hours. Each seminar is carried out at OPEN C.A.S.E. main building (Kifissias

303) on Monday from 17.00 to 21.00, according to the attached schedule.

The cost of a single 4-hour seminar is listed in the table. For each additional seminar there is a 10% discount in the registration fee.

At the end of each seminar a certificate will be provided to each trainee.

For more details and in order to attend a single or several seminars please contact I. Giannakopoulou (i.giannakopoulou@opencase303.com)

Seminar	Topic	hours	cost
Seminar A-1	Basic statistical principles, types of variables, research design and methodology, data coding, design of questionnaires.	4	€ 50
Seminar A-2	Learning of basic functions of SPSS software. Database design, data entry in SPSS, data processing in practice.	4	€ 50
Seminar A-3	Descriptive analysis, distribution normality, outliers, missing data analysis.	4	€ 50
Seminar A-1	Formulation of statistical hypotheses, selection of proper statistical tests to verify each hypothesis, When do we use Chi-square, t-test, ANOVA, correlation coefficients, linear regression, logistic regression, Cox-regression, parametric and non-parametric tests.	4	€ 50
Seminar B-2	Basic principles and application of Chi-Square, t-test and ANOVA	4	€ 50
Seminar B-3	Basic principles and application of correlation analysis and linear regression analysis	4	€ 50
Seminar B-4	Basic principles and application of logistic (binary) regression and cox-regression analysis	4	€ 50
Seminar C-1	Multivariate analyses Basic principles and application of multiple linear regression analysis	4	€ 60
Seminar C-2	Multivariate analyses Basic principles and application of multiple logistic and Cox regression analysis	4	€ 60
Seminar C-3	Multivariate analyses Basic principles and application of MANOVA, General linear models	4	€ 60
Seminar C-4	Basic principles and application of ROC Analysis (receiver operator curves) and Survival curves (Kaplan Meier analysis)	4	€ 60
Seminar C-5	Basic principles and application of reliability analysis and factor analysis	4	€ 60