

Introduction to SPSS

Lecturer: M. Chiara Debernardi

Language

English

Course description and objectives

SPSS (Statistical Package for Social Science) is a tool for the statistical analysis of data. It allows performing a wide variety of statistical procedures in a quick and simple way.

Main objective of the course is to provide participants with a basic knowledge of the program in order to be able to use it in a socio-economic context and in the exploration of corporate data.

Upon successful completion of this course, the student should be able to:

- Understand the main features of SPSS
- Use the SPSS GUI effectively
- Perform descriptive analyses with SPSS
- Perform common parametric and non-parametric tests
- Perform simple regressions and multivariate analyses
- Know where to find help

Audience

The course is open to all Bocconi students. In particular, it addresses to Undergraduate and Master of Science students with an interest in statistical analysis of data, both for their thesis work and for use in the future workplace.

Prerequisites

A good knowledge of basic descriptive and inferential statistics. It is advisable to have a good familiarity with PC operations and a working knowledge of spreadsheet application software (Excel).

Important notice: the course presents the software SPSS with its main features; therefore, it does not represent a “substitute” of a formal statistics or econometrics course, then the details of any statistical or econometrical methodology will not be treated.

Duration

14 hours

Calendar

Lecture	Date	Time	Room
1	Mon 15/04/2019	18.00 - 19.30	Info AS05
2	Thu 18/04/2019	18.00 - 19.30	Info AS05
3	Mon 29/04/2019	18.00 - 19.30	Info AS04
4	Sat 04/05/2019	09.30 - 12.45	Info AS05
5	Mon 06/05/2019	18.00 - 19.30	Info AS04
6	Wed 08/05/2019	18.00 - 19.30	Info AS05

Syllabus of the course

Lecture	Topics	Book reference
1	Introduction <ul style="list-style-type: none"> - Introduction to SPSS - Data analysis: general aspects, workflow, critical issues - SPSS: general description, windows, menus, commands - SPSS file management: native formats <i>Exercises</i>	Ch. 3
2	Input and data cleaning <ul style="list-style-type: none"> - Defining variables and their labels - Manual input of data - Automated input of data and file import <i>Exercises</i>	Ch. 3
3	Data manipulation <ul style="list-style-type: none"> - Data Transformation - Syntax files and scripts - Output management <i>Exercises</i>	Ch. 3 and 5.7

Lecture	Topics	Book reference
4	Descriptive and graphical data analysis <ul style="list-style-type: none"> - Frequencies - Descriptives - Explore - Crosstabs - Creating charts with SPSS <i>Exercises</i>	Ch. 4
5	Statistical tests + working with data files <ul style="list-style-type: none"> - Means - T-test - One-way ANOVA - Non parametric tests - Normality tests - Merging files - Split, filter and weight data <i>Exercises</i>	Ch. 5, 9, 10, 15
6	Introduction to correlation and regression with SPSS <ul style="list-style-type: none"> - Linear correlation and regression - Multiple linear regression <i>Exercises</i>	Ch. 6 and 7
7	Introduction to multivariate analyses with SPSS <ul style="list-style-type: none"> - Factor analysis - Cluster analysis - Discriminant analysis <i>Final exercise for self-evaluation</i>	Ch. 17

Software used

SPSS 24 (or higher release)

Suggested bibliography

Field A., *Discovering Statistics Using SPSS, Fourth Edition*, SAGE, 2013

Available seats

This activity is limited to **110** participants. Registrations cannot be carried out once this number has been reached or after closing of the registration period.