
Applied Statistics

Professor: Walter Garcia-Fontes

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Objectives

Understanding basic statistical concepts including:

- > Using descriptive statistics and figures to summarize data.
- > Working with data sets with one numerical variable or one categorical variable
- > Analyzing data sets with combinations of numerical and categorical variables
- > Using regression analysis
- > Understanding correlation and causality
- > Implementing sampling design, hypothesis tests and confidence intervals
- > Introducing time Series analysis

Description

We review the main statistical tools and methods useful for being able to use statistical information for decision-making.

Contents

- > Quantitative information
- > Descriptive statistics
- > Probability and probability distribution
- > Statistical inference
- > Correlation Regression and Times Series

Methodology

The methodology is based on computer room discussion of the main statistical tools and methods with the use of business oriented data sets.

Evaluation criteria

- > 30 % based on course assignments
- > 20 % team project
- > 20 % midterm
- > 30 % final exam (Midterm discarded if final exam has higher grade, in which case final exam counts 50% and midterm 0%).

Students are required to attend 80% of classes. Failing to do so without justified reason can have important consequences in your final grade.

As with all courses taught at the UPF Barcelona School of Management, students who fail the course during regular evaluation will be allowed ONE re-take of the examination/evaluation. If the course is again failed after the re-take, students may have to register again for the course the following year.

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Plagiarism is to use of another's work and to present it as one's own without attributing the sources in the correct way. All essays, reports or projects handed in by a student must be original work completed by the student. By enrolling at a Barcelona School of Management Master of Science and signing the "Honor Code," students acknowledge that they understand the Barcelona School of Management's policy on plagiarism and certify that all course assignments will be their own work, except where indicated by correct referencing. Failing to do so may result in automatic expulsion from the program."

Bio of the professor

Walter Garcia-Fontes joined the Department of Economics and Business after getting his Ph.D. in Economics at Stanford University (1992). His research interests are in Industrial Organization, corporate innovation, technological change and applied econometrics. He has published his research in leading international field journals. He has coordinated various projects in different European Commission Framework Programmes, studying the European chemical industry and the organizational changes related to new industrial relations.