

ID	3694
Curricular Unit	Statistics
Regent	Paula Marta Bruno
Learning Outcomes	The objectives of this course are: (i) to provide fundamental concepts of statistics, which constitute an indispensable tool for scientific research on an experimental basis; (ii) to develop the ability to analyze real data using statistical software (in case, the SPSS) to illustrate the application of the methods discussed.
Syllabus	Exploratory data analysis Statistical inference Linear regression models Time series Laboratory of statistics – data analysis
Evaluation	The approval in the course is obtained with final score greater than or equal to 10 values. A written exam is carried out in a period scheduled by the pedagogical board. An oral exam is possible upon teacher's approval, but only with a score greater than or equal to 9 values in the written exam.
Bibliography	- Main bibliography: Chatfield, C. (1995), Problem Solving – a Statistician's Guide (2nd ed.), Boca Raton, Florida: Chapman and Hall/CRC. Field, A. (2010), Discovering Statistics Using SPSS (3rd ed.), London: Sage. Makridakis, S., Wheelwright, S., and Hyndman, R. (1998), Forecasting – Methods and Applications (3rd ed.), New York: John Wiley and Sons. Montgomery, D. C., Peck, E. A., and Vining, G. G. (2006), Introduction to Linear Regression Analysis (4th ed.), New York: John Wiley and Sons. Pallant, J. (2011), SPSS – Survival Manual (4th ed.), Glasgow: McGraw-Hill. - Complementary bibliography: Marôco, J. (2014), Análise Estatística com o SPSS Statistics (6ª ed.), Lisboa: Report Number. Sheskin, D. J. (2007), Handbook of Parametric and Nonparametric Statistical Procedures (4th ed.), Boca Raton, Florida: Chapman and Hall/CRC. Zar, J. H. (2010), Biostatistical Analysis (5th ed.), Upper Saddle River, New Jersey: Prentice Hall.