

ID	430
Curricular Unit	Fundamentals of Statistics
Regent	Júlia Maria Vitorino Teles
Learning Outcomes	The objectives of this course are: (i) to provide students with fundamental concepts of statistics, which enables the handling of data related to scientific research on an experimental basis, (ii) to develop the ability to use statistical software (e.g., SPSS).
Syllabus	Exploratory data analysis Parametric statistical inference Nonparametric statistical inference Linear regression models
Evaluation	Classes operate on a theoretical-practical format so the practical component is always present. In general, after the theoretical exposition of each methodology, some activities are proposed to the students in order to develop their skills on the use of the statistical software SPSS. The Evaluation is done by Final Exam.
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. Marôco, J. (2010), Análise Estatística com o PASW Statistics (ex-SPSS), Lisboa: Report Number. Montgomery, D. C., Peck, E. A., and Vining, G. G. (2006), Introduction to Linear Regression Analysis (4th ed.), New York: John Wiley and Sons. Pestana, D., e Velosa, S. (2006), Introdução à Probabilidade e à Estatística (Vol. I, 2ª ed.), Lisboa: Fundação Calouste Gulbenkian. Vincent, J. W. (1999), Statistics in Kinesiology (2nd ed.), Northridge: Human Kinetics, California State University. Zar, J. H. (2010), Biostatistical Analysis (5th ed.), Upper Saddle River, New