

ID	3397
Curricular Unit	Understanding Probability and Statistics
Regent	Ana Maria Fité Alves Diniz
Learning Outcomes	(i) To provide students with fundamental concepts of statistics, which enable the handling of data related to scientific research on an experimental basis; (ii) To develop the ability to analyze real data, using statistical software (e.g., SPSS) to illustrate the application of the presented methods.
Syllabus	1. Exploratory data analysis 2. Parametric statistical inference 3. Nonparametric statistical inference 4. Linear regression models
Evaluation	Final exam with a practical component (50%) and a theoretical-practical component (50%)
Bibliography	Essential: Field, A. (2010). <i>Discovering Statistics Using SPSS</i> (3rd ed.), London: Sage. Marôco, J. (2010). <i>Análise Estatística com o PASW Statistics (ex-SPSS)</i>, Lisboa: Report Number. Complementary: Chatfield, C. (1995). <i>Problem Solving - a Statistician's Guide</i> (2nd ed.), Boca Raton, Florida: Chapman and Hall/CRC. Pestana, D., Velosa, S. (2006). <i>Introdução à Probabilidade e à Estatística</i> (Vol. I, 2ª ed.), Lisboa: Fundação Calouste Gulbenkian. Sheskin, D.J. (2007). <i>Handbook of Parametric and Nonparametric Statistical Procedures</i> (4th ed.), Boca Raton, Florida: Chapman and Hall/CRC. Zar, J.H. (2010). <i>Biostatistical Analysis</i> (5th ed.), Upper Saddle River, New Jersey: Prentice Hall.