

ID	3397
Curricular Unit	Understanding Probability and Statistics
Regent	Ana Maria Fité Alves Diniz
Learning Outcomes	<p>(i) To provide students with fundamental concepts of statistics, which enable the handling of data related to scientific research on an experimental basis;</p> <p>(ii) To develop the ability to analyze real data, using statistical software (e.g., SPSS) to illustrate the application of the presented methods.</p>
Syllabus	<ol style="list-style-type: none"> 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	<p>Essential:</p> <p>Field, A. (2010). Discovering Statistics Using SPSS (3rd ed.), London: Sage.</p> <p>Marôco, J. (2010). Análise Estatística com o PASW Statistics (ex-SPSS), Lisboa: Report Number.</p> <p>Complementary:</p> <p>Chatfield, C. (1995). Problem Solving – a Statistician's Guide (2nd ed.), Boca Raton, Florida: Chapman and Hall/CRC.</p> <p>Pestana, D., Velosa, S. (2006). Introdução à Probabilidade e à Estatística (Vol. I, 2^a ed.), Lisboa: Fundação Calouste Gulbenkian.</p> <p>Sheskin, D.J. (2007). Handbook of Parametric and Nonparametric Statistical Procedures (4th ed.), Boca Raton, Florida: Chapman and Hall/CRC.</p> <p>Zar, J.H. (2010). Biostatistical Analysis (5th ed.), Upper Saddle River, New Jersey: Prentice Hall.</p>