

<b>ID</b>	702
<b>Curricular Unit</b>	Understanding Probability and Statistics
<b>Regent</b>	Paula Marta Pereira Bruno
<b>Learning Outcomes</b>	<p>The objectives of this course are:</p> <p>(I) provide students with fundamental concepts of probability and statistics, enabling the processing of data relating to scientific research trial basis;</p> <p>(II) develop the ability to use statistical software (SPSS in case).</p>
<b>Syllabus</b>	<ol style="list-style-type: none"> <li>1. Introduction to probability theory;</li> <li>2. Exploratory data analysis;</li> <li>3. Parametric statistical inference;</li> <li>4. Nonparametric statistical inference;</li> <li>5. Linear regression models.</li> </ol>
<b>Evaluation</b>	Final Exam
<b>Bibliography</b>	<p>Field, A. (2010). Discovering Statistics Using SPSS (3rd ed.), London: Sage.</p> <p>Sheskin, D. J. (2007), Handbook of Parametric and Nonparametric Statistical Procedures (4th ed.), Boca Raton, Florida: Chapman and Hall/CRC.</p> <p>Chatfield, C. (1995). Problem Solving - a Statistician's Guide (2nd ed.), Boca Raton, Florida: Chapman and Hall/CRC.</p> <p>Marôco, J. (2010), Análise Estatística com o PASW Statistics (ex-SPSS), Lisboa: Report Number.</p> <p>Montgomery, D. C., Peck, E. A., and Vining, G. G. (2006), Introduction to Linear Regression Analysis (4th ed.), New York: John Wiley and Sons.</p> <p>Pestana, D., e Velosa, S. (2006), Introdução à Probabilidade e à Estatística (Vol. I, 2ª ed.), Lisboa: Fundação Calouste Gulbenkian.</p> <p>Zar, J. H. (2010), Biostatistical Analysis (5th ed.), Upper Saddle River, New Jersey: Prentice Hall.</p>