

ID	521
Curricular Unit	Statistics I
Regent	Paula Marta Pereira Bruno
Learning Outcomes	<p>The objectives of this course are:</p> <p>(i) to provide students with basic knowledge of probability that allow data modeling and acquisition of certain concepts needed for the study of statistical inference;</p> <p>(ii) to provide students with basic knowledge of statistics, which enables the handling of data related to their future professional activities;</p> <p>(iii) to introduce a statistical software (e.g., SPSS).</p> <p>The skills developed in this course are:</p> <p>(i) basic knowledge of probability and statistics;</p> <p>(ii) interpretation of outputs obtained in a statistical software.</p>
Syllabus	<p>Probability</p> <p>Discrete models</p> <p>Continuous models</p> <p>Exploratory data analysis</p> <p>Introduction to statistical inference</p> <p>Statistical inference for one population</p>
Evaluation	<p>Teaching methodologies: classes are TP?type so the practical component is always aware of the theoretical component. In general, after the theoretical exposition, exercises are proposed to students. For the last three topics, whenever possible, students are asked to solve the exercises using the SPSS statistical analysis program, interpreting the outputs provided by the program. Evaluation: final exam.</p>
Bibliography	<p>Bruno, P., Carita, A., Diniz, A., Gonçalves, I., e Teles, J. (2008), Introdução à Teoria das Probabilidade.,Lisboa: Edições FMH.</p> <p>Bruno, P., Carita, A., Diniz, A., Gonçalves, I., e Teles, J. Tópicos de Estatística, manual não editado.</p> <p>Murteira, B., Antunes, M. (2012). Probabilidades e Estatística, Volume I, Lisboa: Escolar Editora.</p> <p>Pallant, J. (2011), SPSS - Survival Manual (4th ed.), Glasgow: McGraw?Hill.</p> <p>Paulino, C.D., Branco, J.A. (2005). Exercícios de Probabilidades e Estatística, Lisboa: Escolar Editora.</p> <p>Pestana, D., e Velosa, S. (2006), Introdução à Probabilidade e à Estatística (Vol. I, 2ª ed.), Lisboa: Fundação Calouste Gulbenkian.</p>