

ID	3231
Curricular Unit	Statistics II
Regent	Ana Isabel Andrade Dinis Carita
Learning Outcomes	The objectives of this course are to: (i) provide students with basic knowledge of statistical inference, parametric and nonparametric, that allow the processing of data related to their future professional and scientific activities; (ii) develop the ability to use a statistical software (in case, the SPSS).
Syllabus	<ol style="list-style-type: none"> 1. Statistical inference for two populations <ol style="list-style-type: none"> 1.1. Independent samples 1.2. Matched samples 1.3. Practical applications with SPSS 2. Statistical inference for several populations <ol style="list-style-type: none"> 2.1. Independent samples 2.2. Repeated measures 2.3. Practical applications with SPSS 3. Statistical inference for proportions <ol style="list-style-type: none"> 3.1. Inference for a single proportion 3.2. Inference for two population proportions with independent samples 3.3. Practical applications with SPSS 4. Chi-square tests <ol style="list-style-type: none"> 4.1. Chi-square goodness of fit test 4.2. Chi-square test for independence 4.3. Chi-square test for homogeneity 4.4. Practical applications with SPSS 5. Linear regression <ol style="list-style-type: none"> 5.1. Simple linear regression 5.2. Multiple linear regression 5.3. Practical applications with SPSS
Evaluation	<p>The approval in the course is obtained with final score greater than or equal to 10. The assessment can be done in two ways: continuous assessment or a final exam. In either mode of assessment it is possible for students, with a score greater than or equal to 9.0 values, and upon teachers approval, to do an oral exam. During the assessments it is forbidden to use mobile phone.</p> <p>Continuous assessment: 2 tests, the final score is the weighted average, such that,</p> $\text{final score} = 0.5 \times \text{1st test score} + 0.5 \times \text{2nd test score},$ <p>provided that the criteria for the minimum score of 8.0 on each test is verified.</p> <p>Assessment by final exam: the final exam is to be carried out at the normal or recourse periods (and also in special exam period for students who have special status).</p>

Bibliography

Main bibliography:

Bruno, P., Carita, A., Diniz, A., Gonçalves, I., e Teles, J., Tópicos de Estatística - Texto de apoio para a unidade curricular de Estatística II dos cursos de licenciatura da FMH, manual não editado.

Complementary bibliography:

Bruno, P., Carita, A., Diniz, A., Gonçalves, I., e Teles, J. (2008), Introdução à Teoria das Probabilidades, Lisboa: Edições FMH.

Bruno, P., Carita, A., Diniz, A., Gonçalves, I. e Teles, J., Tópicos de Estatística - Texto de apoio para a unidade curricular de Estatística I dos cursos de licenciatura da FMH, manual não editado.

Marôco, J. (2010), Análise Estatística com o PASW Statistics (ex-SPSS), Lisboa: Report Number.

Field, A. (2010), Discovering Statistics Using SPSS (3rd ed.), London: Sage.

Murteira, B., Ribeiro, C. S., Silva, J. A., e Pimenta, C. (2007), Introdução à Estatística (2ª ed.), Lisboa: McGraw-Hill.

Pestana, D., e Velosa, S. (2006), Introdução à Probabilidade e à Estatística (Vol. I, 2ª ed.), Lisboa: Fundação Calouste Gulbenkian.