ID	3092
Curricular Unit	Fundamentals of Statistics
Regent	Júlia Maria Vitorino Teles
Learning Outcomes	To provide students with fundamental concepts of statistics, which enables the handling of data related to scientific research with experimental basis, and exercise real data analysis capabilities, promoting the domain of a statistical software (in the case, the SPSS statistical software).
Syllabus	1. Exploratory data analysis 2. Parametric and nonparametric inference: one sample, two samples and more than two samples 3. Chi-square test for homogeneity and Chi-square test of independence 4. Linear regression models
Evaluation	Assessment by final exam (normal or recourse periods). The approval in the discipline is obtained with a final score greater than or equal to 10. Upon teachers approval, students with a score greater than or equal to 9.0 may have an oral exam. The statistical software SPSS is used in the assessment.
Bibliography	• Field, A (2010). Discovering Statistics Using SPSS. SAGE Publications Ltd, London. • Marôco, J (2010). Análise Estatística com o PASW Statistics (ex-SPSS). ReportNumber, Lisboa. • Montgomery, DC; Peck, EA; Vining, GG (2007). Introduction to Linear Regression Analysis. John Wiley and Sons, New York. • Murteira, B (1993). Análise Esploratória de Dados: Estatística Descritiva. McGraw-Hill, Lisboa. • Pestana, DD; Velosa, SF (2010). Introdução à Probabilidade e à Estatística. Fundação Calouste Gulbenkian, Lisboa. • Sheskin, DJ (2007). Handbook of Parametric and Nonparametric Statistical Procedures. Chapman and Hall/CRC, Boca Raton, Florida. • Sprent, P; Smeeton, NC (2007). Applied Nonparametric Statistical Methods. Taylor and Francis Group, Boca Raton, FL. • Teles, J (2017). Manual de apoio à unidade curricular de Noções de Estatística, do 16º Mestrado em Treino de Alto Rendimento (manual não editado). • Zar, JH (2010). Biostatistical Analysis. Prentice-Hall, Upper Saddle River, New Jersey.