ID	2340
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 statistical inference 3. Nonparametric statistical inference 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. Evaluations are carried out with consultation (on paper). The statistical software SPSS is used in the assessment.
Bibliography	1) Chatfield, C. (1995). Problem Solving – a Statistician's Guide (2nd ed.). Chapman and Hall/CRC, Boca Raton, Florida 2) Field, A. (2010). Discovering Statistics Using SPSS (3rd edition). SAGE Publications Ltd, London. 3) Marôco, J. (2010). Análise Estatística com o PASW Statistics (ex-SPSS). ReportNumber, Lisboa. 4) Montgomery, D. C., Peck, E. A. and Vining, G. G. (2007). Introduction to Linear Regression Analysis (4th edition). John Wiley and Sons, New York. 5) Murteira, B. (1993). Análise Esploratória de Dados: Estatística Descritiva. McGraw-Hill, Lisboa. 6) Pallant, J. (2011). SPSS – Survival Manual (4th ed.). McGraw-Hill, Glasgow 7) Pestana, D. D. e Velosa, S. F. (2010). Introdução à Probabilidade e à Estatística (3ª Edição). Fundação Calouste Gulbenkian, Lisboa. 8) Sheskin, D. J. (2007). Handbook of Parametric and Nonparametric Statistical Procedures (4th ed.). Chapman and Hall/CRC, Boca Raton, Florida. 9) Sprent, P. and Smeeton, N. C. (2007). Applied Nonparametric Statistical