ID	3870
Curricular Unit	Statistical Analysis
Regent	Ana Isabel Andrade Dinis Carita
Learning Outcomes	To provide students with statistical tools to develop skills of data analysis, essential in the scientific research on an experimental basis, and to develop the ability to analyze real data, promoting the use of a statistical software (in the case, the SPSS statistical software).
Syllabus	Regression models Analysis of variance and covariance Multivariate analysis Time series Laboratory of statistics – data analysis
Evaluation	Approval in the discipline is obtained with a final score greater than or equal to 10. The assessment can be done in two ways: continuous assessment or final exam. Continuous assessment: 1st test (50% final score) + 2nd test (50% final score). The minimum score on each test is 8.0 values. Assessment by final exam: Final exam to be carried out at the normal or recourse periods (and also in special exam period for students who have special status). Observations: (i) The statistical software SPSS is used in both type of assessment; (ii) In either type of assessment and upon teachers approval, students with a score greater than or equal to 9.0 may have an oral exam; (iii) Evaluations are carried out with consultation (on paper); (iv) Students who have approval in the continuous assessment can only make classification improvement in the recourse exam period.
Bibliography	Main: Chatfield, C. (1995), Problem Solving – a Statistician's Guide (2nd ed), Florida: Chapman & Hall/CRC. 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. Makridakis, S., Wheelwright, S., and Hyndman, R. (1998), Forecasting – Methods and Applications (3rd ed), New York: Jonh Wiley & Sons. Manly, B.F.J. (2007), Multivariate Statistical Methods: A Primer (3rd ed), Florida: Chapman & Hall/CRC. Montgomery, D.C., Peck, E.A., and Vining, G.G. (2006), Introduction to Linear Regression Analysis (4th ed.), New York: John Wiley & Sons. Complementary: Afifi, A., Clark, V., and May, S. (2004), Computer - Aided Multivariate Analysis (4th ed), Florida: Chapman & Hall/CRC. Sheskin, D.J. (2007), Handbook of Parametric and Nonparametric Statistical Procedures (4th ed), Florida: Chapman & Hall/CRC. Zar, J.H. (2010), Biostatistical Analysis (5th ed), NJ: Prentice Hall.