

ID	1927
Curricular Unit	Statistical Analysis
Regent	Ana Isabel Andrade Dinis Carita
Learning Outcomes	The objectives of this course are: (i) to provide students with statistical tools to develop skills of data analysis, essential in the scientific research on an experimental basis, (ii) to develop the ability to analyze real data, promoting the use of a statistical software (e.g., SPSS).
Syllabus	Regression models Analysis of variance and covariance Multivariate analysis Time series Laboratory of statistics - data analysis
Evaluation	Teaching methods: Classes are TP-type for the laboratory component be always present. In general, after the theoretical exposition of each methodology, some activities are proposed to the students in order to develop their skill in the use of the statistical software spss Evaluation: Work (25%) + Final exam (75%) (continuous assessment) or Final Exam (100%) The work is performed in group and presented orally in class
Bibliography	Chatfield, C. (1995), Problem Solving - a Statistician'S Guide (2nd ed.), Boca Raton, Florida: Chapman and Hall/CRC. 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 and Sons. Manly, B. F. J. (2007), Multivariate Statistical Methods: A Primer (3rd ed.), Boca Raton, Florida: Chapman and Hall/CRC. Montgomery, D. C., Peck, E. A., and Vining, G. G. (2006), Introduction to Linear Regression Analysis (4th ed.), New York: John Wiley and Sons