

Polytechnic Institute of Viseu School of Technology and Management of Viseu

Course title	Quantitative Methods		
Scientific area	Mathematics		
Teaching method	The teaching method will be diversified but emphasizing a practical and active methodology of the kind "hands on". Lectures, discussions, self-study and research will also be used as teaching methods.		
Lecturers:	Carla Henriques Isabel Duarte Nuno Bastos	Language of instruction	English
ECTS	5	Semester	Spring
Hours per week	3	Hours per semester	39 TP
Objectives of the course	 The main objectives of the course are: interpret graphs of affine and quadratic functions, identifying intervals of growth and decrease, signs and zeros Provide students with knowledge and practice of descriptive data analysis tools, so that they will be able to organize, represent and summarize the information contained in a data set, in order to highlight relevant aspects in the context of a case study. Use Microsoft Excel to produce tables, graphs and also master the descriptive data analysis tools available in Excel. Recognize the usefulness of linear regression models and know how to use Excel for construction and analysis and an explanatory model in the context of a given case study. 		
Entry requirements	Does not apply.		
Course contents	Elementary functions		

Assessment methods	Assessment based on practical works/assignments.	
Recommended readings	 Johnson, R. A. & Bhattacharyya, G. K. (1992). Statistics: Principles and Methods. New York: Jonh Wiley & Sons (ESTGV: 519.2 JOH STA) Waller, Derek L. (2008). Statistics for business. Amsterdam: Elsevier (ESTGV: 519.2 WAL) Davidson, J. & Mulbery, K. (2014). Microsoft excel 2013: Comprehensive. Boston: Pearson. (ESTGV: 004.4 MUL) 	
Additional information		