ID	3361
Curricular Unit	Mathematics II
Regent	Maria Margarida de Oliveira Moz Carrapa
Learning Outcomes	Providing solid bases for learning of linear algebra; differential calculus in Rn, as well as optimization of functions of several variables.
Syllabus	Matricial calculus: Vectors and matrices. Determinants and matrix inversion. Linear Independence of vectors and linear systems of equations. Differential calculus in : Partial derivatives. Quadratic forms. Derivatives of functions defined implicitly. Multivariable optimization: Unconstrained optimization. Constrained optimization.
Evaluation	Theoretical-practical lectures, and sessions for discussing problems. The assessment consists in a written individual examination (70% of the final grade, subject to a minimum score) and written intercalary tests (30% of the final grade).
Bibliography	Sydsaeter, Knut and Peter Hammond, (1995). Essential Mathematics for Economic Analysis, Prentice Hall.