



ID3216Curricular UnitMathematics IIRegentAna Maria Fité Alves DinizItearning Outcomes(i) To provide students with complementary mathematical tools at the level of Linear Algebra and Mathematical Analysis, necessary for other subjects; (ii) To develop in students logical thinking, fundamental for scientific studies; (iii) To pass on to students the relevance of mathematics in eventual areas of interest, both for their studies and for their professions.Itematical Interest of Linear algebra1. Complements of Linear algebra
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1.1. Determinants1.2. Eigenvalues and eigenvectors2. Functions of several variablesSyllabus2.1. Partial derivatives2.2. Extremes3. Linear differential equations3.1. First order equations3.2. Second order equations with constant coefficients
EvaluationTeaching methodology: Classes operate on a theoretical-practical level to ensure students that the practical component is always present. In general, together with the theoretical exposition of each subject a practical illustration is made with real situations. Assessment: Four or five mini-tests during term time plus a final test or Final exam. The final grade in the course is obtained via a process which may be seen in http://www.fmh.ulisboa.pt/pt/doc/1o-ciclo/desciplinas/2766-metodos-de-avaliacao-matematica/fil
Bibliography Ferreira, J. Campos. Introdução à Análise Matemática, Fundação Calouste Gulbenkian, Lisboa. Apostol, Tom M. Calculus, Blaisdell Publishing Company, Massachusetts.