

Course Unit Description - (MADEM)

(Multi-criteria Decision Support Methods)

(Mestrado em Engenharia Electrotécnica e de Computadores)

Academic year: 2009/2010



Subject group: Ciências Básicas da Electrotecnia

	Semestral	Optional		
Mode of study	Diurno	Hours/Week	T-Teórica	2
Year	1 ^o		PL-Prática-Laboratorial	2
Semester	1 ^o		OT-Orientação Tutorial	1
ECTS		6		

Objectives

Provide the student with introductory knowledge on optimization techniques for multiobjective problems and on multicriteria techniques.

Course Contents

Multiobjective and multicriteria analysis.

Recommended reading

Hillier, F.S.; Lieberman, G.J. – "Introduction to Operations Research", McGraw Hill
Clemen, R.T. - "Making Hard Decisions", PWS-Kent, Boston.
Keeney, R.; Raiffa, H. – "Decisions with Multiple Objectives: Preferences and Value Tradeoffs", Wiley, New York.

Teaching Methods

Theoretical classes: slides and some examples
Tutorial and Lab classes: exercises solving and discussion.

Assessment methods

Project work during the semester: 100% of the final result

	Name
Teacher responsible:	Ana Maria Marques Moura Gomes Viana (AGV)
Lecturer:	Ana Maria Marques Moura Gomes Viana (AGV) Alexandre Paulo Maia Pinheiro (APP)