Course Unit Description - (APLIN)

(Computer Applications in Power Systems)

(Mestrado em Engenharia Electrotécnica - Sistemas Eléctricos de Energia)

Subject group: Sistemas de Energia

	Semestral	**Compulsory**	
Mode of study	Diurno	**Hours/Week**	**T-**Teórica
Year	1º		**PL-**Prática-Laboratorial
Semester	2º		**OT-**Orientação Tutorial
	ECTS	7.5	

Objectives

This course addresses the use, specification, choice and design of computer applications for Power Systems (PS).

Course Contents

Computer applications in Power Systems (PS)
Computacional methodologies in PS
Design and implementation of compter applications for PS:
.Data modelling
.Database programming in ACCESS
.VBA &ACCESS
.MatLab

Recommended reading

Site http://moodle.isep.ipp.pt/
Access 2007 Macros & VBA - Curso Completo
Access 2007 VBA Programmer's Reference
MatLab 7&6 Curso Completo. Vagner Morais, Claudio Viera, FCA

Teaching Methods

Theoretical lessons will be used for subject matter exposition and case studies discussion.
Laboratorial lessons will be used for work group development, using the approach "learning based on problems".

Assessment methods

Evaluation during the learning period, NFREQ, will be obtained by means of a practical work, which will weight 60% of the final classification.
The minimum classification for NFREQ is 8.
Final written exam, PE, will contribute with 40% for the final classification.
The minimum classification for PE is 8.
(xNFREQ + yPE)/(x + y)

x = 60%
y = 40%

	Name
Teacher responsible:	Maria Goreti Carvalho Marreiros (MGT)
Lecturer:	Maria Goreti Carvalho Marreiros (MGT) Filipe Miguel Tavares de Azevedo (FTA) Paulo Jorge Machado Oliveira (PJO) Maria Judite Madureira da Silva Ferreira (MJU)