

Code: 1398 Management and Conservation of Vegetation and Agroforest Systems**Degree:** 2nd cycle – Forestry and Natural Resources**Stream:** all**Curricular Year:** 1st (NRM; AUF) / 2nd (F; FP)**Credits:** 6 ECTS**Semester Course:** 1st**Compulsory** (Nat. Resources Management; Arboriculture and Urban Forestry)**Optional** (Forestry; Forest Products)**Language:** Portuguese/English**Responsible:** António Manuel Dorotêa Fabião**Other lecturer(s):** José Carlos Augusta da Costa**Web Site:** <http://www.isa.utl.pt/home/node/3829>**1. Contact hours:**

Lecture/Practicals 70 Others 14 Total 84

2. Objectives:

The students will be introduced to Portuguese plant cover, particularly woody communities, and to the identification of forest landscape units; they will be acquainted with biotic and abiotic factors relevant for plant growth and survival, and for plant community structures, with emphasis on climatic variables; they will learn the concepts related to close-to-Nature forestry and their application to the mitigation of human impacts on natural plant communities; methods of ecosystem conservation and restoration and their application will be teach.

3. Programme:

I - Biogeography and bioclimatology of Portuguese vegetation. Methods of plant survey and plant community analysis.
II - Endangered and protected plant species, communities and sites. *Ex situ* and *in situ* plant conservation.
III - Agro-forestry systems characteristics and functions. Water and nutrient balances in agro-forestry systems. Agro-silvo-pastoral systems and the Portuguese "baldios" (communal lands) as case study.
IV - Consequences of land abandonment. Restoration and requalification of agro-forestry systems.

4. Bibliography:**Main Bibliography**

Blanco Castro, E., Casado González, M. A., Costa Tenório, M., Escribano Bombín, R., Garcia Antón, M., Génova Fuster, M., Gómez Manzaneque, Á., Moreno Saiz, J. C., Morla Juaristi, C., Regato Pajares, P., Sainz Ollero H. 1997. *Los Bosques Ibéricos: una Interpretación Geobotánica*. Editorial Planeta. Barcelona.
Fabião, A., Oliveira, A. 2007. *A Floresta em Portugal*. Instituto Superior de Agronomia. Lisboa.

Other Bibliography

Alves, J. M. S., Espírito Santo, M. D., Costa, J. C., Gonçalves, J. H. C., Lousã, M. F. 1998. *Habitats Naturais e Seminaturais de Portugal Continental. Tipos de Habitats mais Significativos e Agrupamentos Vegetais Característicos*. Inst. Cons. Natureza. Lisboa.
Guil, F., Moreno-Opo, R. (coord.). 2007. *Catálogo de Buenas Prácticas para la Gestión del Habitat en Red Natura 2000: Bosque y Matorral Mediterráneos. Una Propuesta de Actuaciones Financiadas en Red Natura 2000*. Fund. CBD-Habitat. Madrid.

5. Assessment:

Classification of application exercises and their oral presentations in classes, or written test for programme module whenever adequate or necessary for classification recover; recover of classification, if needed, in final written examination.

6. Estimated Workload:

168	Hours
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7. Last Update:

9/3/2011
