

Code: 1418 Introduction to Arboriculture and Urban Forestry**Degree:** 2nd cycle – Forestry and Natural Resources**Stream:** Forestry; Natural Resources Management; Arboriculture and Urban Forestry**Curricular Year:** 1st**Credits:** 6 ECTS**Language:** Portuguese/English**Responsible:** António Manuel Dorotêa Fabião**Other lecturer(s):** Ana Paula Ferreira Ramos and Maria Helena Reis de Noronha Ribeiro de Almeida**Web Site:** <http://www.isa.utl.pt/home/node/3847>**Semester Course:** 2nd**Compulsory** (Arboriculture and Urban Forestry)**Optional** (Forestry; Natural Resources Management)**1. Contact hours:**

Lecture/Practicals 70 Others 14 Total 84

2. Objectives:

The students will be introduced to the qualification of urban spaces through arboriculture and forestry in open recreational spaces. They will be acquainted with the conception and planning of urban tree planting, care and maintenance, and with environmental and public health and welfare effects of trees in urban landscapes.

3. Programme:

I – Functions and types of trees and forested spaces in urban areas; constraints of urban environment to tree survival, growth and health; mitigation of constraining factors.
II – Tree species selection and seedling production for use in urban environments; seedling quality; species selection and public health and welfare.
III – Urban tree care: tree inventory as a tool for qualification of isolated trees and forest patches; urban tree pruning.
IV – Introduction to tree health and visual tree risk assessment (VTA).

4. Bibliography:**Main Bibliography**

Harris, R. H., Clark, J. R., Matheny, N. P. (2004). *Arboriculture: Integrated Management of Landscape Trees, Shrubs and Vines*. 4th Edition. Prentice-Hall. Upper Saddle River (New Jersey, USA).

Michau, E. (1998). *A Poda das Árvores Ornamentais*. Manual FAPAS. Fundo para a Protecção dos Animais Selvagens/ Câmara Municipal do Porto. Porto.

Other Bibliography

Shigo, A. L. (2002). *Arboricultura Moderna*. Sociedade Portuguesa de Arboricultura. Avintes.

Fabião, A. (2006). *As Podas em Árvores Ornamentais: Como e Porquê?*. Divisão de Parques e Jardins, Departamento de Ambiente e Salubridade. Câmara Municipal de Odivelas. Odivelas. Disponível em http://www.cm-odivelas.pt/CamaraMunicipal/ServicosEquipamentos/Ambiente/Anexos/podas_arvores.pdf.

5. Assessment:

Classification of application exercises and their oral presentations in classes, or written test for program 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
