

**Code: 1708 Introduction to Forest Science****Degree:** 1<sup>st</sup> cycle - Forestry and Natural Resources**Curricular Year:** 1<sup>st</sup>**Semester Course:** 2<sup>nd</sup>**Credits:** 6 ECTS**Compulsory****Language:** Portuguese/English**Responsible:** António Manuel Dorotêa Fabião**Other lecturer(s):** Maria Helena Reis de Noronha Ribeiro de Almeida and Maria Margarida Branco de Brito Tavares Tomé**Web Site:** <http://www.isa.utl.pt/home/node/4001>**1. Contact hours:****Lecture/Practicals 70 Others 14 Total 84****2. Objectives:**

To introduce the young students to basic concepts and principles concerning trees, forests and forestry. They must learn the basics on how to measure trees and how to recognise their species, as well as on seedling production and management in nursery.

**3. Programme:**

I – Introduction to professional activities on forestry: forestry professionals and what they do; basic concepts on projects and application to forestry; scientific and technical communication in forestry; trees and forests: how do they function, and what are they good for; tree and stand measurement and forest inventory.

II – Introduction to silvicultural systems and stand tending; seedling production in nursery; tree seedling management and nursery practice; hunting, fishing and wildlife conservation and management.

III – Forest trees: introduction to dendrology; taxonomy of conifers; main forest tree conifers in Portugal: identification and importance of the main conifer species; practical application: detailed description of a conifer (monography).

IV – Forest trees: taxonomy of broadleaves; main forest tree broadleaves in Portugal: identification and importance of the main broadleaf species; practical application: detailed description of a broadleaf (monography).

**4. Bibliography:****Main Bibliography**

Fabião, A. M. 1996. *Árvores e Florestas*. 2.<sup>a</sup> edição. Col. Euroagro, 15. Publicações Europa-América. Mem Martins.

**Other Bibliography**

Humphries, C. J., J. R. Press e D. A. Sutton. 1996. *Árvores de Portugal e Europa*. Guias FAPAS. Fundo para a Prot. dos Animais Selvagens (FAPAS) / Câmara Municipal do Porto. Porto.

**5. Assessment:**

Classification of application exercises and their oral presentations in classes, and written test for each programme module and/or in final written examination.

6. Estimated Workload: 

168
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 Hours

7. Last Update: 

9/3/2011
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