

**Code: 1637 General Agriculture**

**Degree:** 1<sup>st</sup> cycle – Animal Production Engineering

**Curricular Year:** 2<sup>nd</sup>

**Credits:** 6 ECTS

**Language:** Portuguese/English

**Responsible:** Pedro Jorge Cravo Aguiar Pinto

**Other lecturer(s):** -

**Web Site:** <http://www.isa.utl.pt/home/node/3975>

**1. Contact hours:**

**Lecture/Practicals 70 Others 14 Total 84**

**2. Objectives:**

Consolidate a global and systemic vision of the agricultural activity

Explicit the general principles and techniques under which the agriculture is done

**3. Programme:**

1. Introduction

1.1. Concepts of Agronomy and Agriculture

1.2. Main characteristics of the Portuguese agriculture

2. The environment and the agricultural production

2.1. Climate

2.2. Soil

2.3. Agro ecological characterization of a zone/farm

2.4. Socio-economical restrictions and constrains

3. Agricultural farming and natural resources conservation

3.1 Systems analysis

3.2. Agricultural ecosystems

3.3. Agricultural farms

4. Sustainable Production techniques

4.1. Crop choice and rotations

4.2. Soil cultivation and conservation

4.3. Crop fertilization

4.4. Crop protection

4.5. Crop irrigation

4.6. Crop mechanization

5. Basic principles of Farm management

5.1. Work and machines management

5.2. Economic management

**4. Bibliography:**

**Main Bibliography**

Villalobos, F.J., Mateos, L., Orgaz, F., Fereres, E., 2002. *Fitotecnia. Bases y tecnologías de la producción agrícola*. Ediciones Mundi-Prensa. Madrid, 496p

**Other Bibliography**

LOOMIS, R.S.; CONNOR, D.J. 1992. *Crop Ecology. Productivity and management in agricultural systems*. Cambridge University Press. Cambridge

**5. Assessment:**

Final written exam

Practical home works

6. Estimated Workload:

168

Hours

7. Last Update:

13/7/2010