

Code: 1312 Organic Agriculture and Horticulture**Degree:** 2nd cycle –Agriculture; Food Science and Engineering**Stream:** Agriculture – Agriculture and Animal Production; Horticulture; Plant Protection; Food Science and Engineering – Food Processing**Curricular Year:** 1st**Semester Course:** 2nd**Credits:** 6 ECTS**Optional****Language:** Portuguese/English**Responsible:** António Nogueira Lopes Aleixo**Other lecturer(s):** -**Web Site:** <http://www.isa.utl.pt/home/node/3792>**1. Contact hours:****Lecture/Practicals 70 Others 14 Total 84****2. Objectives:**

Introduction to organic farming.

3. Programme:

1. Introduction
 - 1.1. The concept of Organic Farming
 - 1.2. History of Organic Farming
 - 1.3. Legislation
2. Basis of organic farming
 - 2.1. Plant nutrition
 - 2.2. Soil microbiology
 - 2.3. Composting
 - 2.4. Plant protection
5. Plant production
 - 5.1. Horticulture
 - 5.2. Fruticulture
 - 5.3. Viticulture
 - 5.4. Oliviculture
 - 5.5. Farm crops
6. Animal Production
 - 6.1. Nutrition
 - 6.2. Hygiene e animal health
 - 6.3. Poligastrics
 - 6.4. Monogastrics
7. Certification

4. Bibliography:**Main Bibliography**

- Altieri, M. A. 1983. Agroecology, the Scientific Basis of Alternative Agriculture. Div. of Biol. Control, U.C. Berkeley, Cleo's Duplication Services. 173 pp.
- Gareth Davies, Margi Lennartsson (Editors). 2005. Organic Vegetable Production: A Complete Guide. The Crowood Presss, Ltd.
- Gliessman, Stephen R. 2006 Agroecology: The Ecology of Sustainable Food Systems 2nd edition. CRC press

5. Assessment:

Participation in the presential sessions (30%)

Final exam (70%)

6. Estimated Workload:

168	Hours
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7. Last Update:

19/7/2010
