
Course:	L025 - Food Quality and Nutrition
Degree:	Bachelor
Curriculum Unit:	9025005 - Vegetable Production System
Scientific field:	Microbiology and Plant Protection
ECTS^(*):	5
Curriculum year:	2nd
Curriculum semester:	1st
Frequency Regime:	Mandatory
Teacher(s):	Helena Maria de Paiva Martins Esteves Correia
Contact hours ^(**):	T - 30; TP - 30
Total work time (hours):	138

(*) - ECTS - European Credit Transfer and Accumulation System

(**) – T- Theoretical; TP- Theoretical/Practical; LP- Lab Practice; S- Seminars; I- Internships; TU - Tutorials; O- Other (Evaluations)

Objectives / Competences

Provide information about the various systems of vegetal production, influence of the different agricultural factors in the final product quality.

Syllabus

Theory:

1. Concepts of agronomy and agriculture.
2. The environment and the agricultural production: Climate, soil and agro-ecological characterization of the farm.
3. Agricultural farming and natural resources conservation: agricultural ecosystems and farms.
4. Sustainable Production techniques: soil cultivation and conservation, soil fertility, crop protection and crop irrigation.
5. Technical itineraries of different cultures: Vegetables, fruit and arable cultures
6. Quality systems

Teaching methodologies and evaluation criteria

In the theoretical lectures will be presented the fundamental concepts to understanding vegetable production systems and in theoretical-practical classes problems will be solved on different topics.

Will also be undertaken visits to various agricultural farms

It is privileged to carry out group work and presentation in the respective context of the classroom before other colleagues.

New technologies are used in the classroom, using powerpoints and presentation with data show, and contact with students is privileged by use of "e-learning" through Moodle.

Evaluation:

It is planned a continuous assessment during the semester, which includes components: 1. Preparation of a work in groups and 2. Individual Assessment: class participation, expression of interest and monitoring.

Furthermore, the student will do a final exam.

Short bibliography

ALMEIDA,D. 2006. Manual de Culturas Hortícolas.Vol. I e II. Ed. Presença

AGRIOS, N. George. 2005. Plant Pathology, Academic Press, 5ª Edição.

AGROBIO, 1989. Agricultura Biológica, sua caracterização. Instituto Nacional do Ambiente.

AMARO, P. 2003. A protecção integrada. ISA Press, Lisboa

COSTA, J. B., 1985. Caracterização e constituição do solo. 3ª ed., Fundação Calouste Gulbenkian, Vila da Maia.

VILLALOBOS, F.J., MATEOS, L., ORGAZ, F., FERERES, E., 2002. Fitotecnia. Bases y tecnologías de la producción agrícola. Ediciones Mundi-Prensa. Madrid,

FEIO, M., 1991. Clima e Agricultura. Ministério da Agricultura , Pescas e Alimentação, Lisboa.

SANTOS, JQ 2002 – Fertilização. Fundamentos da utilização de adubos e correctivos. Ed. Castro, F.L. Pub. Europa-América , Mem Martins

TAMARO D.,1997. Horticultura. Editorial Gustavo Gili, Barcelona.

TEIXEIRA, A. & RICARDO, C., 1983. Fotossíntese. Didáctica ed. Lisboa.

VERENNES, A. 2003. Produtividade dos Solos e Ambiente. Escolar Editora. Lisboa.