Code: 1747 **Food Quality and Safety**
Degree: 1st cycle – Agriculture; Food Science and Engineering; Animal Production Engineering
Curricular Year: 3rd **Semester Course: 2nd**
Credits: 6 ECTS **Compulsory**
Language: Portuguese/English
Responsible: Isabel Maria Nunes de Sousa
Other lecturer(s): -
Web Site: http://www.isa.utl.pt/home/node/4023

1. Contact hours:
Lecture/Practicals 70 **Others** 14 **Total** 84

2. Objectives:

In the frame of quality and food security, the student should be able to implement sampling plans in a food industry, as well as control plans to prevent the production of defect product in a productive process. In addition, the student should be able to make a Master Production Schedule (MPS), a Capacity Requirements Plan (CRP) and a Master Production Schedule (MPS) for the same enterprise.
The subject "Food safety" will give theoretical knowledge, as well practical experience of quality control basic systems such as HACCP and good practice code that should be implemented in food industries.
Food security should make an overview to the food problematic around the world, the international commerce and its importance for the food chain, food politics, food and its relation with sustainable development.

3. Programme:

1 – Quality and quality statistical control: Quality and food security: concept and definitions; Technical and economic aspects of quality control; Food product technical quality evaluation; Inspection methods - Establishment of sampling plans; Control of industrial productive process; Quality improvement: optimization of industrial quality process.
2 – Food safety: Good Practice Code for Food chain. Reg. CE 252/2004 – mandatory hygienic conditions to work with food; Quality control systems: *Codex Alimentarius* and HACCP system; Food traceability.
3 – Food security: Food, agriculture and environment; Education, food and development; Food help and cooperation for development; Food politics, poverty release and sustainable development; Food supply and demand tendencies.

4. Bibliography:

Main Bibliography

- Qualidade na produção. Da ISO 9000 ao seis sigma. 2009. Duret D. e Pillet, M.. Lidel – Edições Técnicas Lda
- Planeamento estatístico e controlo de processos. 2008. Pereira, Z.L. e Requeijo, J.G. FCT – Faculdade de Ciências e Tecnologia

Other Bibliography

- Manual de Gestão da qualidade. 2007. Lopes, A. e Capricho, L. Editora RH.

5. Assessment:

- A written test, representing 60% of final grade
- A practical work, with oral and written presentation, representing 40% of final grade

6. Estimated Workload: 168 Hours

7. Last Update: 8/7/2010