

Code: 1324 Quality and Safety Evaluation**Degree:** 2nd cycle – Food Science and Engineering**Stream:** Food Quality and Safety**Curricular Year:** 1st**Semester Course:** 1st**Credits:** 6 ECTS**Optional****Language:** Portuguese/English**Responsible:** Manuel José de Carvalho Pimenta Malfeito Ferreira**Other lecturer(s):** Maria Suzana Leitão Ferreira Dias Vicente, Raúl Filipe Xisto Bruno de Sousa and Virgílio Borges Loureiro**Web Site:** <http://www.isa.utl.pt/home/node/3877>**1. Contact hours:****Lectures 28 Practicals/Laboratory 42 Others 14 Total 84****2. Objectives:**

- To give an integrated approach to food quality;
- To understand the criteria used to evaluate food quality;
- To know the main indicators of food quality and of food processing;
- To focus on the importance of analytical methods.

3. Programme:

1. Principles to assure the safety, quality and acceptability of foods
2. Microbiological control
 - 2.1 Basis of food sampling
 - 2.2 Utilization of biochemical and microbiological indicators
 - 2.3 Evaluation of quality criteria
 - 2.4 Microbiological criteria and risk analysis
3. Physico-Chemical evaluation of foods
 - 3.1 Quality parameters
 - 3.2 Identification of control points
 - 3.3 Analytical procedures
 - 3.3.1 In the processing plant
 - 3.3.2 In control labs
 - 3.4 Verification of quality parameters

4. Bibliography:**Main Bibliography**

Brown, M. and Stringer, M. (2002) Microbiological risk assessment in food processing.

Capítulos 9, 10 e 11. Woodhead Publishing Ltd., Cambridge.

Mossel, D. e tal. (1995) Essentials of the Microbiology of foods, Capítulos 1, 7, 8. John Wiley and Sons, Chichester.

Pomeranz, Yeshajahu ; Meloan, Clifton E. (1992) Food Analysis: Theory and Practice. Chapman & Hall. London.

William Ed. Horowitz (1996) Official Methods of Analysis of the AOAC, 16^aed. Virginia.U.S.A.**5. Assessment:**

Work group to evaluate the quality of a given food. The grade will be given based on a written report and on an oral presentation.

6. Estimated Workload:

168	Hours
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7. Last Update:

19/7/2010
