
Course:	L025 - Food Quality and Nutrition
Degree:	Bachelor
Curriculum Unit:	9025007 - Food Analysis I
Scientific field:	Chemical Sciences
ECTS^(*):	5
Curriculum year:	2nd
Curriculum semester:	1st
Frequency Regime:	Mandatory
Teacher(s):	Edite Maria Relvas das Neves Teixeira de Lemos
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

The primary objective of this course is to give students the essential skills, both theoretical and experimental, for the practice of chemical analysis of foods.

Syllabus

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- I. Analysis of Food Products. General Concepts
 - II. Classic Analytical Techniques Used in Food Analysis
 - III. Chemical Analysis of Foods
 - IV. Analytical Methodologies Used in Assessing the Overall Quality of Some More Representative Foods

Teaching methodologies and evaluation criteria

There will be lectures covering theoretical concepts and laboratory classes.

Lectures: PowerPoint presentations.

Laboratory classes: Carrying out a number of relevant analytical determinations to know the quality and authenticity of different food products.

We will seek to provide good coordination between the topics taught in lectures and laboratory work.

Short bibliography

ADRIAN, J., POTUS, J., POIFFAT, A., DAUVILLIER, P. Análisis nutricional de los alimentos. Tradução espanhola. Editorial Acribia, S.A. (Ed.), Saragoça, Espanha, 2000.

BELITZ, Grosch e Schieberle, Food Chemistry, Springer, 2004

LEO ML Nollet, Handbook of Food Analysis (Vol.1), Marcel Dekker, NY, 2004

RONALD E. Wrolstad, Current Protocols in Food Analytical Chemistry, John Wiley & Sons Inc, 2000

HORWITZ, Official Methods of Analysis of the AOAC, AOAC International, 2000.

NOLLET, DEKKER M., Handbook of Food Analysis (Vol.1), 1996.

KELLNER, MERMET, OTTO e WIDMER, Analytical Chemistry, Wiley-VCH, 1998