

Course Unit	Control and Food Quality Certification			Field of study	Dietetics and Nutrition			
Bachelor in	Dietetics and Nutrition			School	School of Health			
Academic Year	2023/2024	Year of study	3	Level	1-3	ECTS credits	5.0	
Туре	Semestral	Semester	1	Code	8149-807-3101-00-23			
Workload (hours)	135	Contact hours	T - TP	30 PL - T	C 22 S -	E - OT	15 0 -	
T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other								
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Name(s) of lecturer(s) Fábio Manuel dos Santos Aires

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

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 1. To know the evolution of quality concept and food quality concept;

 2. Understand a group of norms that establish the needed requisites to assure quality;

 3. To Distinguish between accreditation and certification. Procedures and envolved entities for implementation at a national and international level

 4. To know the mechanisms needed for a quality management system implementation;

 5. To implement Quality Managment and Food Safety Systems;

 6. To know the interrelationship between the most important references normative for quality and food certification;

 7. To know the statistical tools of Quality Control;

 8. Understand the europeian and national legislation related with food quality control and safety.

Prerequisites

Not applicable

Course contents

Concept of Quality and its evolution. Normative references. Management Quality System implementation. Quality Control tools. National and European legislation in quality control and food safty. Introduction to the problem of authenticity of foodstuffs. Some analytical methodologies applied to Quality Control process of some foodstuffs.

Course contents (extended version)

- Evolution of quality concept: inspection, control, guaranty and total quality management.
 Certification and Acreditation: concepts.
 Implementation of a quality management system (NP EN ISO 9001: 2015).
 The different norms of the ISO 9000 series.
 Quality principles, vocabulary, norm requisites and the implementation process.
 The Portuguese Quality Institute (Subsystems: Qualification, Metrology and Normalization).
 Ouality costs

- The Portuguese Quality Institute (Subsystems: Qualification, Metrolog S. Quality costs.
 Food safety: European legislation.
 Food security policy in the European Community: The white paper.
 Regulation 178/2002: objectives, scope and principles.
 Other regulations and National Legislation.
 New Foods and GMOs.

- Discussion on the recent food crises in Europe.
 Nutritional Security: supplements, Fortification and Nutrition Claims.
 Chemical and microbiological safety. New parameters.

- Labelling.
 Animal Nutrition.
 Products Traceability.
- 7. Food safety managment:
 - Principal references of food certification and their comparation:
 Codex Alimentarius
 ISO 22000

 - DS 3027E ERS 3002
- ERS 3002
 Other references: BRC Food, BRC/IOP, IFS, FSSC 22000, MSC, GlobalGap.

 8. Food product certification systems
 Protected Designation of Origin (PDO).
 Protected Geographical Indication (PGI).
 Traditional Specialities Guaranteed (TSG).
 Organic Farming.
- - Integrated Prodution.
 Certification process and certifying Bodies in Portugal.
 Quality characteristics of products evaluated in these processes

Recommended reading

- 1. Codex Alimentarius: GENERAL PRINCIPLES OF FOOD HYGIENE CXC 1-1969 Adopted in 1969. Amended in 1999. Revised in 2022 2. Fernandes, E., Silva, M. F., Ramalhosa, E. (2012). Sistemas de Gestão da Segurança Alimentar. 1º Edição. Editora Silabo: Lisboa. 3. NORMAS ISO para a Segurança Alimentar (9000; 9001; 22000; 14000; 18000); 4. 2022 Annual Report Alert and Cooperation Network. European Union, May 2023 5. Legislação alimentar: Reg. n.º178/2002, 28.01; Reg. n.º852/2004, 29.04; Reg. n.º853/2004, 29.04; Reg. nº2017/625 15.03; Reg. n.º 1829/2003 de 22/09; Reg.2283/2015 de 25/11; Reg. n.º1935/2004 de 27/10

Teaching and learning methods

The theoretical lessons will use the expository method; Tutorial training lessons using active and interactive method to do practical exercises. Developing, presentation and discussion of a group work; Field work for application of the theoretical contents and developed documents in tutorial lessons.

Assessment methods

- Alternative 1 (Regular, Student Worker) (Final)

 Final Written Exam 60% (Minimal classification required, according to the Pedagogical Regulation- ESSa- IPB(8, 5 values))
 Reports and Guides 40%

 Alternative 2 (Regular, Student Worker) (Supplementary, Special)

 Final Written Exam 100%

Language of instruction

Portuguese

	Electronic validation					
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	22-11-2023	22-12-2023	22-12-2023	03-01-2024		