

Course Unit Option II - Safety and Traceability			Field of study	Food Industry		
Master in	Technology and Animal Science			School	School of Agriculture	
Academic Year	2022/2023	Year of study	1	Level	2-1	ECTS credits 6.0
Туре	Semestral	Semester	2	Code	5026-453-1205-03-22	
Workload (hours)	162	Contact hours	1 00 IF		C - S 4	E - OT 20 O Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Fernando Jorge Ruivo Sousa, Maria Eugénia Madureira Gouveia Name(s) of lecturer(s)

Learning outcomes and competences

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

- 1. Know and understand traceability systems and technical methodologies and tools for different types of food and feeds traceability.

 2. Achieve technical knowledge and skills for Risk Assessment of food and feed related products and substances that are of health concern "regulated products" on the EU market
- 3. Obtain, analyze and interpret data and toxicity parameters in the context of Risk assessment.

 4. Nutrient intake and food consumption for pesticide risk assessment.

 5. Existing maximum residue level (MRLs) for fitopharmaceuticals.

 6. Understand the current regulations and legislation on products for plant protection.

 7. Improve techniques and tools for certification implementations schemes.

Prerequisites

Not applicable

Course contents

Traceability fundamentals. Cost-benefits of traceability. Techniques for traceability examples: wine, fruits, and animal products. Risk Assessment. methods and steps on risk assessment. Pesticides peer review of active substances. Regulated and safety subjects, zoonoses, contaminants, antibiotics and hormones in animal production. Certification schemes of vegetal and animal productions.

Course contents (extended version)

- Cost-benefits of traceability
- Cost-benefits of traceability.
 Techniques for traceability and traceability examples: wine, fruits, and animal products.
 Risk assessment and peer review of active substances. Methods and steps on risk assessment.
 Pesticides risk assessment: Review of existing maximum residue level (MRL).
 Pesticides peer review of active substances.

- 7. Certification schemes of vegetal and animal productions.

Recommended reading

- George Bennet, 2010 Food Identiy Preservation and traceability; Safer Grains. Taylor& Francis, CRC
 Maria Vulton, 2011. Animal identification and traceability. Background and issues. Agricultural issues and policies.
 Ian Smith and Anthony Furness, 2006. Improving Traceability Ability in Food Processing and Distribuition
 EFSA Journal and on line "Scientific Opinion", "Reasoned Opinions" and "Scientific and Technical Reports" published by EFSA.

Teaching and learning methods

Audiovisual and multimedia tools utilised for lectures. Individual and group bibliograph search and document analysis . Study visits at different stages of the application of traceability techniques in different food products of plant or animal origin are also methods that promote interdisciplinary application and improve communications skills.

Assessment methods

- 1. Continuous evaluation (Regular, Student Worker) (Final)
- Practical Work 50%

 2. Theoretical evaluation (Regular, Student Worker) (Final)
 Final Written Exam 50%
- Exam (Regular, Student Worker) (Supplementary, Special)
 Final Written Exam 100%

Language of instruction

Portuguese

Electronic validation

Licotronio validation					
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05-12-2022	09-12-2022	12-12-2022	12-12-2022		