

Course Unit	Product Development and Innovation			Field of study	Food industries	
Master in	Food Quality and Safety			School	School of Agriculture	
Academic Year	2023/2024	Year of study	1	Level	2-1	ECTS credits 6.0
Туре	Semestral	Semester	2	Code	6369-785-1203-00-23	
Workload (hours)	162	Contact hours			C - S -	- Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Elsa Cristina Dantas Ramalhosa

Learning outcomes and competences

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

- At the end of the course unit the learner is expected to be able to:
 Define the requirements of a Research, Development and Innovation Project (RDI);
 Acquire skills to develop an IDI project to be applied in the perspective of food innovation and diversification of food products;
 Recognize the importance of protecting innovation;
 Develop skills of creation, analysis and evaluation of new products.

Prerequisites

Before the course unit the learner is expected to be able to: Demonstrate knowledge on food chemistry.

Course contents

A) New product concept. Types of innovation; B) Management of Research, Development and Innovation activities (RDI); C) Innovation Protection; D) Laboratory work in the development of a new product; E) Development of a research and product development project.

Course contents (extended version)

- A) New product concept. Types of innovation.

 Product Innovation, Process Innovation, Organizational Innovation and Marketing Innovation;
 B) Management of Research, Development and Innovation activities (RDI):

 Standards NP 4456 and NP 4458, 2007;
 C) Innovation Protection
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- Standards NP 4456 and NP 4458, 2007;
 C) Innovation Protection:
 Intellectual Property versus Industrial Property;
 Patents versus Utility Models;
 Industrial Designs and Models;
 Brand name and Trade Marks.
 D) Laboratory work carried out to develop a new product. 5. E) Development of a research and product development project.

Recommended reading

- NP 4456, 2007, Gestão da Investigação, Desenvolvimento e Inovação (IDI), Terminologia e definições das actividades de IDI;
 NP 4458, 2007, Gestão da Investigação, Desenvolvimento e Inovação (IDI), Requisitos de um projecto de IDI;
 OECD/Eurostat, 2005, Oslo Manual: Guidelines for collecting and Interpreting Innovation Data;
 Site eletrónico do Instituto Nacional da Propriedade Industrial (http://www. marcasepatentes. pt/).

Teaching and learning methods

Theoretical lectures: the expository and active methods will be used, but also occasionally the interrogative method. Practical lessons: laboratory works related with the evaluation of several food properties will be performed.

Assessment methods

Alternative I - (Regular, Student Worker) (Final, Supplementary, Special)
 Final Written Exam - 40%
 Practical Work - 60% (Oral presentation and preparation of a research and development project of a product.)

Language of instruction

Portuguese
 English

Electronic validation			
Elsa Cristina Dantas Ramalhosa	Maria da Conceição Constantino Fernandes	Maria Letícia Miranda Fernandes Estevinho	José Carlos Batista Couto Barbosa
16-01-2024	17-01-2024	17-01-2024	17-01-2024