

Course Unit	Option II - null	Field of study	-
Master in	Technology and Animal Science	School	School of Agriculture
Academic Year	2021/2022	Year of study	1
Type	Semestral	Semester	2
Workload (hours)	162	Contact hours	T 30 TP - PL 26 TC - S 4 E - OT 20 O -
Level	2-1	ECTS credits	6.0
Code	5026-453-1205-05-21		

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - 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:

1. Define the requirements of a Research, Development and Innovation Project (RDI);
2. Acquire skills to develop an IDI project to be applied in the perspective of food innovation and diversification of food products;
3. Recognize the importance of protecting innovation;
4. 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)

1. A) New product concept. Types of innovation.
 - Product Innovation, Process Innovation, Organizational Innovation and Marketing Innovation;
2. B) Management of Research, Development and Innovation activities (RDI):
 - Standards NP 4456 and NP 4458, 2007;
3. C) Innovation Protection:
 - Intellectual Property versus Industrial Property;
 - Patents versus Utility Models;
 - Industrial Designs and Models;
 - Brand name and Trade Marks.
4. D) Laboratory work carried out to develop a new product.
5. E) Development of a research and product development project.

Recommended reading

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

1. Portuguese
2. English

Electronic validation

Elsa Cristina Dantas Ramalhosa	Maria da Conceição Constantino Fernandes	Alfredo Jorge Costa Teixeira	Elsa Cristina Dantas Ramalhosa
26-11-2021	05-12-2021	07-12-2021	07-12-2021