

Master in Natural Products and Bioprospecting School School of Agriculture	Pharmaceutical Sciences	
	School of Agriculture	
Academic Year 2023/2024 Year of study 1 Level 2-1 ECTS credits 6.0		
Type Semestral Semester 2 Code 5012-740-1203-00-23		
Workload (hours) 162 Contact hours T - TP 60 PL - TC - S - E - OT 4 O T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutori	_	

Name(s) of lecturer(s)

Isabel Cristina Jornalo Freire Pinto, Maria da Conceição Constantino Fernandes

Learning outcomes and competences

- At the end of the course unit the learner is expected to be able to:
- Understand ethical aspects associated with biotechnology and the principles of professional ethics
 Knowing legal framework and stages of the research & development process for medicines, health products, pre-clinical and clinical trials, and their ethical principles principies.
 3. UDderstand technical-scientific aspects of quality assurance, safety and efficacy of medicines and health products
 4. Know the legislation and stages of monitoring the market for medicines and health products.
 5. Know the quality and food safety policies in the European Union.
 6. Know the HACCP methodology
 7. Know the inspection, assessment and risk management processes in the food sector
 8. Establish relationships between scientific knowledge and regulations that evaluate medicines, health products and foods

Prerequisites

Before the course unit the learner is expected to be able to: 1. Basic knowledge of pharmacology 2. Basic knowledge of chemistry and microbiology

Course contents

1 - Research and Development of new medicines and health products 2 - Medicines Legislation and Regulation 3 - Legislation and Regulation of Health Products 4 - Food quality control and food safety

Course contents (extended version)

- Research and Development of new medicines and health products

 Preclinical trials. Ethic. Regulation; Clinical trials: Phases. Ethic. Regulation
 Quality assurance and control, safety and effectiveness

 Medicines Legislation and Regulation

 Medicines regulatory organisms
 Marketing-authorization (MA)
 Disclosure and advertising of medicines
 Pharmaceutical patents
- Pharmaceutical patents
 Pharmacovigilance: National System. Monitoring and Notification
 General rules: narcotics and psychotropics, generics, veterinary drugs
 Legislation and Regulation of Health Products
 Medical Devices: Classification, Compliance, Placing and Oversight on the Market
 Cosmetics: Regulation. Classification, Import, Compliance, PIF, notification, market supervision
 Food quality control and food safety
 Food quality and safety
 National and European legislation
 Experimentary end products

 - Food hygiene Codex Alimentarius; HACCP methodology
 Functional foods

 - Risk assessment and control in food safety

Recommended reading

- Agência Europeia do Medicamento http: //www. ema. europa. eu/
 Autoridade Nacional do Medicamento e Produtos de Saúde http: //www. infarmed. pt
 Codexalimentarius http: //www. codexalimentarius
 European Commission. Directorate for public health and risk assessment http: //ec. europa. eu/health. index
 European Food Safety Authority http: //www. efsa. europa. eu

Teaching and learning methods

Theoretical lessons: Expositive methodology, providing study materials from the resources of e-learning. Practical lessons: Accomplishment of legislation analysis, discussion of practical cases and bibliographic research works. Evaluation: final examination of theoretical and practical issues with theoretical questions + group works developed during the practical lessons.

Assessment methods

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

 Final Written Exam 75%
 Work Discussion 25% (oral presentation of group works (minimum score of 8 points))

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

 Final Written Exam 100%

Language of instruction

Portuguese

_	Electronic validation			
	Isabel Cristina Jornalo Freire Pinto, Maria da Conceição Constantino Fernandes	Maria Fátima Alves Pinto Lopes da Silva	Maria João Almeida Coelho Sousa	José Carlos Batista Couto Barbosa
	01-02-2024	01-02-2024	01-02-2024	02-02-2024