

Course Unit	Pharmacy Internship I		Field of study	Pharmacy	
Bachelor in	Pharmacy		School	School of Health	
Academic Year	2022/2023	Year of study	4	Level	1-4
Type	Semestral	Semester	1	ECTS credits	30.0
Code	9549-644-4101-00-22				
Workload (hours)	810	Contact hours	T -	TP -	PL -
			TC -	S -	E 420
			OT 60	O -	

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) Luis Migue Fernandes Nascimento, Cristiana Guimaraes Martins Midoes, Joana Cristina Mendes Martins Coelho, Olívia Rodrigues Pereira, Tania Cristina Sao Pedro Pires

Learning outcomes and competences

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

1. Develop and deepen their own knowledge and practices of the intervention of the Pharmacy Technician;
2. Demonstrate technical and scientific capabilities of production technology, distribution, management and organization in pharmacy;
3. Demonstrate capacity for autonomy and rigor in technical implementation and ability to "develop" work efficiently;
4. Organize time and available resources in order to plan, implement and evaluate effective and efficient techniques and methods for the preparation, acquisition and distribution of medicines;
5. Integrating the work teams in accordance with their respective powers and duties, contributing to the welfare of the team work that is integrated, as well as actual profitability of the work;
6. Demonstrate relationship attitudes with professionals and users, leading to social relations necessary for the exercise of the profession;
7. Help foster ethical conduct of their own profession; Apply standards of good professional practice.
8. Continue the research project previously developed in order to present a possible reformulation of the same, and the state of the art and any preliminary results.

Prerequisites

Not applicable

Course contents

HOSPITAL PHARMACY: 1. Medicines Production in Hospital Pharmacy; 2. Medicines Distribution; 3. Management and Quality Assurance. 4. Acquisition, receipt and storage. 5. Development and application of the research project, literature review and data collection.

Course contents (extended version)

1. PROFESSIONAL PRACTICE IN HOSPITAL PHARMACY:
 - 1.1 Medicines Production in Hospital Pharmacy
 - 1.1.1 Sterile Preparations (Handling cytotoxic; Parenteral Nutrition; Other aseptic preparations)
 - 1.1.2 Nonsterile preparations
 - 1.2 Medicines Distribution in Hospital Pharmacy
 - 1.2.1 Distribution of medicines under the outpatient
 - 1.2.2 Distribution of medicines in unidose
 - 1.2.3 Distribution of medicines by Replacement Level
 - 1.2.4 Traditional medicines distribution
 - 1.3 Management and Quality Assurance
 - 1.4 Acquisition, reception and storage
2. APPLIED RESEARCH IN PHARMACY
 - 2.1 Development and application of the research project
 - 2.2 Literature review
 - 2.3 Data collection
 - 2.4 Preliminary processing of data

Recommended reading

1. Coelho, R. A., Pereira, M. E., Teixeira, A. A., Souto, C. A., Melo, B. M., Feio, J. A. et al. (2006). Formulário Hospitalar Nacional de Medicamentos. Lisboa: INFARMED (www.infarmed.pt/formulario)
2. Hardman, J. G., Limbird L. E., Gilman A. G. (2003). Goodman & Gilman-As Bases Farmacológicas da Terapêutica (10ª ed). México: Mc Graw Hill
3. Morgado, R., Alves, C., Prista, L. (2014). Tecnologia Farmacêutica. 8ª ed. I, II, III Vol. Lisboa: Fundação Calouste Gulbenkian
4. Associação Nacional de Farmácias (2009). Formulário Galénico Português. Lisboa: ANF
5. Pinto I, Pereira O, Nascimento, LM. Guia de Orientação de Estágio 2022-2023 (set, 2022). ESSaude, IPB; www.infarmed.pt; www.ema.europa.eu/ema/; www.dgs.pt; www.who.int/en/; www.fda.gov/

Teaching and learning methods

The development of activities in the profession of pharmacy technician is overseen by the advisor (professional training camp) towards the future Pharmacy Technician develop autonomously work. is also expected that the student develops an investigation, under professional guidance of the pharmacy area.

Assessment methods

- Alternative 1 - (Regular, Student Worker) (Final, Supplementary, Special)
 - Practical Work - 80%
 - Presentations - 20%

Language of instruction

1. Portuguese
2. Portuguese, with additional English support for foreign students.

Electronic validation

Luis Migue Fernandes Nascimento	Olivia Rodrigues Pereira	Juliana Almeida de Souza	Adília Maria Pires da Silva Fernandes
06-12-2022	06-12-2022	28-02-2023	04-03-2023