

Course Unit	Aseptic technology in Pharmacy		Field of study	Pharmacy	
Bachelor in	Pharmacy		School	School of Health	
Academic Year	2021/2022	Year of study	3	Level	1-3
Type	Semestral	Semester	2	Code	9549-644-3206-00-21
Workload (hours)	135	Contact hours	T -	TP 30	PL 30
			TC -	S -	E -
			OT 7,5	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) Andreia Ricardo Rodrigues

Learning outcomes and competences

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

1. Have knowledgs in Artificial Nutrition and chemotherapy.
2. Interpret Artificial Nutrition prescriptions and chemotherapy plans
3. Knowlwdge methods and thecnics leads to aseptic produccion mainly Artificial Nutrition, Cytotoxic medicins and ophtalmic solutions preparation.
4. Cleared about standard procedures and quality indicators in aseptic manipulation.

Prerequisites

Before the course unit the learner is expected to be able to:
None

Course contents

Notions of desinfeccon and sterilization, Asseptic medicin manipulation, Parenteric Nutrition and Cytotoxic manipulation.

Course contents (extended version)

1. Theoretical-Practical Learning:
 - 1. 1. Desinfeccon and sterilization 1. 1 Microbiology: bacterias, virus e fungals
 - 1. 2 Desinfeccon and Anti-sepsis 1. 3 Sterilization
 - 2. Asseptic medicin manipulation 2. 1 Equipment, Matherial and workers
 - 2. 2 Protocols procedures 2. 3 Quality indicators
 - 3. Parenteric Artificial Nutrition 3. 1 Introduccion nutrition 3. 2 Equipaments
 - 3. 3 Methods ans thecnics for Parenteric Nutrition 3. 4 Quality control
 - 4. Cytotoxic preparation 4. 1 Introduccion
 - 4. 2 Equipaments 4. 3 Methods ans thecnics for Cytotoxics manipulation
 - 4. 4 Quality control 4. 5 Procedure in shed (Emergency's Kit)
2. Practical Learning:
 - Decontamination procedures
 - Pratical exercises in parenteral nutrition and citotoxics
 - Methods and thecniques of Artificial Nutrition preparation
 - Methods and thecniques of Cytotoxic preparation
 - Methods and thecniques of ophtalmic solutions preparation

Recommended reading

1. Cavallini, M. E. , Bisson, M. P. (2002) Farmácia hospitalar. Brasil: Manole
2. Prista, N. , Alves, A. C. , Morgado, R. (2008) Tecnologia Farmacêutica, III vol. (5.ª ed.) Lisboa: Fundação Calouste Gulbenkian
3. Gomes M. J. V. M. e Reis A. M. M. (2001) Ciências farmacêuticas, Uma abordagem em Farmácia Hospitalar. Brasil: Atheneu
4. Mahan L. K. , Escott-Stump S. (2010) Krause, Alimentos, Nutrição e Dietoterapia. (12ª ed) Brasil: Roca
5. www. dgs. pt; www. infarmed. pt; www. who. int/en/; www. ema. europa. eu/ema/; www. ordemfarmaceuticos. pt/

Teaching and learning methods

Theoretical-Practical Learning: Expositive method; Practical Learning: Demonstration and simulation of intravenous mixtures and ophtalmic solutions preparation.

Assessment methods

1. 1 - (Regular, Student Worker) (Final)
 - Intermediate Written Test - 25%
 - Laboratory Work - 50%
 - Final Written Exam - 25%
2. 2 - (Regular, Student Worker) (Supplementary, Special)
 - Final Written Exam - 50%
 - Practical Work - 50%

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

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18-03-2022	19-03-2022	05-04-2022	06-04-2022