

**1. General information****Course:** PHARMACOLOGY AND FIRST AID**Type:** ELECTIVE**Degree:** 333 - UNDERGRADUATE DEGREE PROGRAMME IN PHYSIOTHERAPY**Center:** 109 - FACULTAD DE FISIOTERAPIA Y ENFERMERÍA**Year:** 4**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 17335**ECTS credits:** 4.5**Academic year:** 2022-23**Group(s):** 40**Duration:** First semester**Second language:** Spanish**English Friendly:** Y**Bilingual:** N

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**2. Pre-Requisites**

Not established

**3. Justification in the curriculum, relation to other subjects and to the profession**

The subject of Pharmacology and First Aid is located within the elective credits, which allow the Physiotherapy Degree student to expand their training in topics related to health.

The physiotherapist is part of the Health Team, developing his professional activity, both in the hospital and out-of-hospital settings. As a health professional, it is convenient for you to be able to know and identify certain emergency situations that may be found both in the development of your professional activity and throughout your personal life; as well as providing the first attention until the arrival of professional medical assistance. Similarly, you must know the principles associated with the administration of medications for proper use.

The objective of this subject is to equip the student with the knowledge, skills and attitudes that allow them to provide quality care to individuals in emergency situations.

This subject is linked among others with the subjects of Human Morphology I and II, Biochemistry and General Pathology.

**4. Degree competences achieved in this course****Course competences**

Code	Description
CB1	Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge.
CB2	Apply their knowledge to their job or vocation in a professional manner and show that they have the competences to construct and justify arguments and solve problems within their subject area.
CB3	Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant social, scientific or ethical issues.
CB4	Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.
CB5	Have developed the necessary learning abilities to carry on studying autonomously
E16	Students must know the physiopathology, etiology, clinical picture, and diagnosis of syndromes and diseases, as well as the approach to their medical-surgical treatment in terms of the most relevant aspects for Physiotherapy.
G01	Students must show their ability to make educated decisions and solve problems based on available knowledge and information within their field of study.
G04	Students must show their skills in terms of verbal and written communication in Spanish.
G05	Students must show their ability to manage information properly.
G10	Students must show sensitivity and respect towards personal and cultural diversity in their professional activity.
G17	Students must behave responsibly in all professional activities related to patients, relatives, and the work team.
G21	Students must know and adapt to the limits of their professional competences.

**5. Objectives or Learning Outcomes****Course learning outcomes**

Description

To identify the most common emergency situations.

To know the principles for drugs administering.

To act in such situations, correctly prioritizing at all times.

To identify situations of impairment for the individual to fulfill their basic needs.

#### Additional outcomes

Knowing the principles of basic life support and CPR with DESA

### 6. Units / Contents

#### Unit 1: General Principles of Pharmacology

**Unit 1.1** General principles of pharmacokinetics

**Unit 1.2** General principles of pharmacodynamics

#### Unit 2: Basic needs of the individual and assessment in emergency situations

#### Unit 3: Basic interventions in minor accidents and trauma

**Unit 3.1** Bleeding, wounds and burns

**Unit 3.2** Bites and stings

**Unit 3.3** Hypothermia and hyperthermia

**Unit 3.4** Acute poisonings

**Unit 3.5** Allergic reactions

**Unit 3.6** Care for the multi-trauma patient

#### Unit 4: Basic cardiopulmonary resuscitation

#### Unit 5: Basic interventions in emergency situations, for pathologies

**Unit 5.1** Cardiovascular emergencies

**Unit 5.2** Neurological emergencies

**Unit 5.3** Metabolic emergencies

**Unit 5.4** Ophthalmic and otorhinolaryngological emergencies

**Unit 5.5** Psychiatric emergencies

**Unit 5.6** Gynecological and obstetric emergencies

#### Unit 6: Actions in situations of abuse

### 7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	E16 G01 G04 G05 G10 G17 G21	1.2	30	Y	N	Teachers indicate on the main content and objectives pursued
Laboratory practice or sessions [ON-SITE]	Practical or hands-on activities	E16 G01 G04 G05 G10 G17 G21	0.48	12	Y	N	Simulated practice of techniques in emergency situations
Group tutoring sessions [ON-SITE]	Problem solving and exercises	E16 G05 G10 G17 G21	0.04	1	Y	N	Troubleshooting or cases
Study and Exam Preparation [OFF-SITE]	Self-study	E16 G01 G04 G05 G10 G17 G21	2.7	67.5	Y	N	Autonomous study of the contents of the subject
Final test [ON-SITE]	Assessment tests	CB1 CB2 CB3 CB4 CB5 E16 G01 G04 G05 G10 G17 G21	0.08	2	Y	Y	Demonstration of knowledge through written test
<b>Total:</b>			<b>4.5</b>	<b>112.5</b>			
<b>Total credits of in-class work: 1.8</b>			<b>Total class time hours: 45</b>				
<b>Total credits of out of class work: 2.7</b>			<b>Total hours of out of class work: 67.5</b>				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

### 8. Evaluation criteria and Grading System

Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Final test	80.00%	80.00%	Assessment of the acquisition of knowledge through a written test: items with multiple choice or short questions.
Practical exam	10.00%	10.00%	Assessment of the ability and skill in conducting proceedings and
Assessment of problem solving and/or case studies	10.00%	10.00%	Group work will be carried out.
<b>Total:</b>	<b>100.00%</b>	<b>100.00%</b>	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

#### Evaluation criteria for the final exam:

##### Continuous assessment:

They are the ones indicated for each evaluation activity.

The final exam will consist of 50 to 70 multiple choice questions with four alternative answers. The wrongly answered questions will subtract points in the final score of the test: every three wrongly answered questions will subtract one point or the corresponding percentage.

It is necessary to pass the final theoretical test with a score higher than 40% of the rating score.

The resolution of problems or cases will be group activities corresponding to each topic of the subject, of which at least one will consist of an oral presentation of the proposed case.

The final weighted sum of all the assessment tests must be equal to or greater than 5 (out of 10).

##### Non-continuous evaluation:

The evaluation of the activities that replace the continuous evaluation will be carried out through a specific test in which the competences related to the different training activities will be evaluated.

**Specifications for the resit/retake exam:**

The exam will be of similar characteristics to those of the ordinary call. The scores of the "practice" and "resolution of problems and cases" parts of the subject, will be saved for the extraordinary call if they have been passed in the ordinary call, according to the rules specified in that call.

**Specifications for the second resit / retake exam:**

The exam will be of similar characteristics to those of the ordinary and extraordinary calls.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Unit 1 (de 6): General Principles of Pharmacology	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	2
Group tutoring sessions [PRESENCIAL][Problem solving and exercises]	1
Study and Exam Preparation [AUTÓNOMA][Self-study]	12
Study and Exam Preparation [AUTÓNOMA][Self-study]	.33
Group 40:	
Initial date: 06-09-2021	End date: 17-09-2021
Comment: The duration of each topic is merely indicative, since it will depend on the understanding of each one and on the participation of the students.	
Unit 2 (de 6): Basic needs of the individual and assessment in emergency situations	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	6
Study and Exam Preparation [AUTÓNOMA][Self-study]	.33
Group 40:	
Initial date: 20-09-2021	End date: 24-09-2021
Comment: The duration of each topic is merely indicative, since it will depend on the understanding of each one and on the participation of the students.	
Unit 3 (de 6): Basic interventions in minor accidents and trauma	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	5
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	12
Study and Exam Preparation [AUTÓNOMA][Self-study]	.33
Group 40:	
Initial date: 27-09-2021	End date: 01-10-2021
Comment: The duration of each topic is merely indicative, since it will depend on the understanding of each one and on the participation of the students.	
Unit 4 (de 6): Basic cardiopulmonary resuscitation	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	6
Study and Exam Preparation [AUTÓNOMA][Self-study]	8
Study and Exam Preparation [AUTÓNOMA][Self-study]	.33
Group 40:	
Initial date: 04-10-2021	End date: 12-11-2021
Comment: The duration of each topic is merely indicative, since it will depend on the understanding of each one and on the participation of the students.	
Unit 5 (de 6): Basic interventions in emergency situations, for pathologies	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	22.5
Study and Exam Preparation [AUTÓNOMA][Self-study]	.35
Group 40:	
Initial date: 09-11-2020	End date: 11-12-2020
Comment: The duration of each topic is merely indicative, since it will depend on the understanding of each one and on the participation of the students.	
Unit 6 (de 6): Actions in situations of abuse	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	3
Study and Exam Preparation [AUTÓNOMA][Self-study]	7
Study and Exam Preparation [AUTÓNOMA][Self-study]	.33
Study and Exam Preparation [AUTÓNOMA][Self-study]	2
Final test [PRESENCIAL][Assessment tests]	2
Group 40:	
Initial date: 13-12-2021	End date: 17-12-2021
Comment: The duration of each topic is merely indicative, since it will depend on the understanding of each one and on the participation of the students.	
Global activity	
Activities	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	30
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	12
Group tutoring sessions [PRESENCIAL][Problem solving and exercises]	1
Study and Exam Preparation [AUTÓNOMA][Self-study]	67.5

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Bautista, E	Lo esencial en farmacología	Elsevier		9788490223185	2013	
Durán Hortolá, M; Maestres Miralles, C; Nogues Llor, MR	Fundamentos de farmacología para fisioterapeutas	Madrid Panamericana		978-84-9835-941-1	2017	
Chapleau, W	Guía rápida para el primer interviniente en emergencias	Elsevier		9788480866705	2010	
Jimenez Murillo, L; Montero Pérez, FJ	Medicina de urgencias. Guía terapéutica	Elsevier		9788480867481	2011	
Martin Fontelles, M et al	Farmacología para fisioterapeutas	Síntesis		9788497565929	2008	
Tofiño Pajares, R; Álvarez López, J; Pardillos Ferrer L	Técnicas de soporte vital básico y de apoyo al soporte vital avanzado : atención y valoración inicial del paciente en situaciones de emergencia sanitaria Guía de primeros auxilios de SAMUR <a href="http://www.estella-lizarra.com/upload/docs/Contratacion%20personal%20de%20apoyo%20policia%20municipal%202014%20-%20Guia%20de%20primeros%20auxilios%20SAMUR.pdf">http://www.estella-lizarra.com/upload/docs/Contratacion%20personal%20de%20apoyo%20policia%20municipal%202014%20-%20Guia%20de%20primeros%20auxilios%20SAMUR.pdf</a>	Vigo: ideaspropias		978-84-9839-486-3	2014	
Betés M; Durán Hortolá M; Mestres Miralles C; Nogués Llor MR	Farmacología para fisioterapeutas	Panamericana		978-84-9835-174-3	2008	
Gonzalez Gomez, IC; Herrero Alarcón, A	Técnicas y procedimientos de enfermería	DAE		9788495626646	2009	