



Information about the subject

Degree: Bachelor of Science Degree in Physiotherapy

Faculty: Faculty of Medicine and Health Sciences

Code: 240315 **Name:** Physiotherapy of the Locomotive system II

Credits: 6,00 **ECTS Year:** 3 **Semester:** 1

Module: MODULE 2: SPECIFIC

Subject Matter: Specific Methods of Intervention in Physical Therapy **Type:** Compulsory

Field of knowledge: Health Sciences

Department: Physiotherapy

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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240315 - Physiotherapy of the Locomotive system II

473DF

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Module organization

MODULE 2: SPECIFIC

Subject Matter	ECTS	Subject	ECTS	Year/semester
Fundamentals of Physical Therapy	6,00	Fundamentals of Physiotherapy	6,00	1/1
Assessment in Physiotherapy	6,00	Assessment in Physiotherapy	6,00	1/2
General Procedures for Intervention in Physiotherapy	12,00	General Procedures of Intervention I	6,00	2/1
		General Procedures of Intervention II	6,00	2/2
Physiotherapy in clinical specialties	6,00	Medical-Surgical Conditions and their Treatments	6,00	2/2
Specific Methods of Intervention in Physical Therapy	30,00	Cardiocirculatory and Respiratory Physiotherapy	6,00	3/1
		Physiotherapy of the Locomotive System I	6,00	2/2
		Physiotherapy of the Locomotive system II	6,00	3/1
		Physiotherapy of the Nervous System	6,00	2/2
		Sports Physiotherapy	6,00	3/1
Kinesitherapy	6,00	Kinesitherapy	6,00	2/1
Legislation, Public Health and Health Administration	12,00	Community Physiotherapy and Public Health	6,00	3/1



Legislation, Public
Health and Health
Administration

Social Morality. Ethics

6,00

4/1

Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 The student is able to carry out an analysis and synthesise a topic related to health science and present it orally and in writing.
- R2 The student is able to carry out a physiotherapy interaction plan in physiotherapy in pathologies and dysfunctions of the locomotor apparatus, formulating objectives according to the needs and available means.
- R3 The student evaluates the evolution of the results obtained with physiotherapy treatment in relation to the objectives set.
- R4 The student knows the physiological changes that occur with the application of physiotherapeutic techniques of the locomotor apparatus.
- R5 The student applies and argues with skill different physiotherapeutic techniques of assessment and diagnosis in pathologies and dysfunctions of the locomotor system.
- R6 The student applies and argues with skill different physiotherapeutic treatment techniques in pathologies and dysfunctions of the locomotor system.
- R7 The student conducts bibliographic research from different sources and knows how to analyse it with a critical and constructive spirit.
- R8 Students communicate coherently the basic knowledge of physiotherapy of the locomotor apparatus.
- R9 Incorporate the ethical and legal principles of the profession into professional practice, as well as integrating social and community aspects into decision-making.
- R10 Students are able to analyse and synthesise a topic related to health science and present it orally and in writing.
- R11 Students are able to carry out a physiotherapy intervention plan in pathologies and dysfunctions of the locomotor system, formulating objectives according to the patient's needs and the available means.
- R12 Evaluate the evolution of the results obtained with physiotherapy treatment in relation to the objectives set.



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB1	Students demonstrate knowledge and understanding in an area of study that is at the core of general secondary education, and is often at a level that, while supported by advanced textbooks, also includes some aspects that involve knowledge from the cutting edge of their field of study.	X			
CB2	Students know how to apply their knowledge to their work or vocation in a professional way and possess the skills usually demonstrated by developing and defending arguments and solving problems within their area of study.			X	
CB3	Students have the ability to gather and interpret relevant data (usually within their area of study) to make judgments that include reflection on relevant social, scientific or ethical issues.				X
CB4	Students can convey information, ideas, problems and solutions to both specialized and non-specialized audiences.			X	
CB5	Students develop those learning skills necessary to undertake further studies with a high degree of autonomy.			X	
SPECIFIC		Weighting			
		1	2	3	4
CE1	Students learn human anatomy and physiology, highlighting the dynamic relations between structure and function, especially of the locomotive system and the nervous and cardio-respiratory systems.			X	
CE2	Students identify the physiological and structural changes that can occur as a result of the application of physiotherapy.				X
CE8	The psychological and social factors that influence the health/disease status of the individual, family and community.		X		



CE9	Students assimilate theories of communication and interpersonal skills.	X		
CE12	The general aspects of pathology of endogenous and exogenous etiology related to physiotherapy of all devices and systems with their medical, surgical, physiotherapeutic and orthopedic treatments.		X	
CE13	The structural, physiological, functional and behavioral changes that occur as a result of the intervention of physiotherapy.			X
CE14	Students identify the theoretical bases of Physiotherapy as a science and profession. The models of action in Physiotherapy. The theoretical bases of the assessments, tests and functional verifications: knowledge of their modalities and techniques as well as the scientific evaluation of their utility and effectiveness. The diagnosis of Physiotherapy. Methodology of the research applied to Physiotherapy.		X	
CE15	General physiotherapeutic procedures: Kinesitherapy, Massage and Massage Therapy, Electrotherapy, Magnetic Therapy, Ergotherapy, Hydrotherapy, Balneotherapy, Climatotherapy, Thalassotherapy; Thermotherapy, Cryotherapy, Vibrotherapy, Phototherapy, Pressotherapy, and the derivatives of other physical agents		X	
CE16	Physiotherapeutic Procedures based on specific Methods and Techniques of physiotherapeutic actions to be applied in the different pathologies of all the apparatuses and systems, and in all the specialties of Medicine and Surgery, as well as in the promotion and conservation of the health, and in the prevention of the disease.			X
CE21	Students give proof of the criteria and indicators that guarantee the quality in the provision of the physiotherapy service, through the use of good clinical practice guidelines and professional standards.		X	
CE28	Students prepare and systematically fill in the complete Physiotherapy Clinical History, where all the steps followed from the reception of the patient/user to the report at the discharge of Physiotherapy are properly and efficiently recorded.		X	
CE29	Students assess the functional state of the patient/user, considering the physical, psychological and social aspects.			X
CE30	Students determine the Physiotherapy Diagnosis according to the internationally recognized standards and international validation instruments. This competency includes prioritizing the needs of the patient/user to attend with priority to those that most compromise the recovery process.		X	



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TRANSVERSAL		Weighting			
		1	2	3	4
CT1	Decision-making		X		
CT2	Problem solving.			X	



CT3	Capacity for organization and planning.			X
CT4	Analysis and synthesis capacity.			X
CT5	Oral and written communication in the native language.			X
CT6	Information management capacity.			X
CT7	Computer skills related to the field of study.	X		
CT8	Knowledge of a foreign language.	X		
CT9	Ethical commitment.	X		
CT10	Teamwork.		X	
CT11	Interpersonal relationship skills.	X		
CT12	Work in an interdisciplinary team	X		
CT13	Critical Reasoning			X
CT14	Work in an international context.	X		
CT15	Recognition of diversity and multiculturalism	X		
CT16	Motivation for quality			X
CT17	Adaptation to new situations.		X	
CT18	Creativity			X
CT19	Autonomous learning			X
CT20	Initiative and entrepreneurship		X	
CT21	Leadership.		X	
CT22	Knowledge of other cultures and customs	X		



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CT23 Sensitivity to environmental issues.

x



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	20,00%	OPEN QUESTIONS: Written exam in which theoretical knowledge and the student's ability to relate, integrate and express it coherently in written language are evaluated. It allows the following generic or transversal skills to be assessed: 4 Capacity for analysis and synthesis. 3 Capacity for organisation and planning. 5 Oral and written communication in the native language. 8 Knowledge of a foreign language. 2 Problem-solving 19 Autonomous learning.
	30,00%	TEST TYPE: Multiple choice test with one correct answer out of five possible ones. It allows the student to know in greater detail the contents acquired by him/her. It allows the following generic or transversal competences to be assessed: 2 Problem solving 1 Decision making 13 Critical thinking
	10,00%	PRACTICES: Oral test in which the student is asked to solve practical exercises, clinical cases or problems about the knowledge of the different subjects. It assesses the following generic or transversal competences: 4 Analysis and synthesis capacity. 3 Capacity for organisation and planning. 7 IT Knowledge. 6 Information management skills. 2 Problem-solving 1 Decision-making. 13 Critical thinking. 19 Self-directed learning.



0,00%	WORKS: The student, individually or in a group, elaborates a revision or research topic and presents it, in writing, for the evaluation by the teacher. The following generic or transversal competences are valued: 4 Capacity for analysis and synthesis. 3 Capacity for organisation and planning. 7 Computer skills. 6 Information management skills. 10 Teamwork. 14 Working in an international context. 11 Interpersonal skills. 13 Critical thinking. 19 Autonomous learning. 18 Creativity. 21 Leadership. 20 Initiative and entrepreneurship. 16 Motivation for Quality. 70 Maintaining an attitude of learning and improvement. 72 Knowing one's own skills and limitations.
30,00%	PRACTICAL EXAM: The student is faced with a test in which s/he must demonstrate through practical application the acquisition of certain knowledge. For example, histological or anatomopathological diagnosis, image interpretation or diagnostic tests. This test evaluates the following generic or transversal skills: 13 Critical reasoning. 19 Autonomous learning.
10,00%	PRESENTATION: The student develops, through an oral presentation, supported or not by audiovisual means, a subject or work commissioned by the teacher. This is the method of evaluation of the Final Degree's Project. At the end of the presentation, the teacher or the audience can ask questions.
0,00%	ATTENDANCE AND PARTICIPATION IN CLASS: The teacher evaluates the participation, involvement and progression of the student's acquisition of knowledge and skills during the theoretical and practical classes. It will not exceed 5% of the final grade.

Observations

1. THEORETICAL WRITTEN TEST (50%)

Test type (30%) It will have 40 multiple response questions (test type) with 5 alternative answers of which only one will be correct. Errors will be penalized as follows (CORRECT ANSWERS = correct answers – (errors/4)). Open questions (20%) The test will have 4 questions to be developed by the student about the topics presented in the subject. These tests must be passed separately with at



least a 5 for it to be weighted.

ONLY THOSE STUDENTS WHO HAVE PASSED THE THEORETICAL EXAM WITH A GRADE OF 5 OR MORE WILL BE ABLE TO ACCESS THE PRACTICAL EXAM.

2. PRACTICAL TEST (40%)

The practical test will consist of 2-3 assumptions related to the practices of the subject. Oral test in which the student is asked to solve practical exercises, clinical cases or problems regarding the knowledge of the subject (10%)

3. GROUP WORK (10%)

Presentation of the work 10% The student develops a topic or work related to the subject through an oral presentation, supported by audiovisual means.

MENTION OF DISTINCTION:

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- | | |
|----|---|
| M1 | Master class Problem solving Exposition of contents by the teacher. Explanation of knowledge and skills |
| M2 | Case resolution: Analysis of sample realities - real or simulated - that allow the student to connect theory with practice, to learn from models of reality or to reflect on the processes used in the cases presented. |
| M4 | Personalized attention. Period of instruction and/or guidance by a tutor with the aim of analyzing with the student their work, activities and their evolution in learning the subjects. |
| M5 | Set of tests carried out to know the degree of acquisition of knowledge and skills of the student. |



- M11 Oral presentation
- M12 Group work: Group work sessions supervised by the teacher. Knowledge construction through student interaction and activity.
- M14 Group work to search, discuss and filter information about the subjects
- M15 Seminar, supervised monographic sessions with shared participation
- M16 Student's study: Individual preparation of readings, essays, problem solving, seminars.



IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theoretical lessons M1	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12	31,00	1,24
Practice lessons M2	R1, R2, R6, R7, R8, R9, R10, R11, R12	14,00	0,56
Seminar M12, M14, M15	R6, R7	5,00	0,20
Office Hours M4	R1	5,00	0,20
Assessment M2, M5	R1, R2, R10, R12	5,00	0,20
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Autonomous work M1, M2, M4, M5, M11, M12, M14, M15, M16	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12	80,00	3,20
Group work M12, M14, M15, M16	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12	10,00	0,40
TOTAL		90,00	3,60



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
Thematic block I: Physiotherapy action of the MMSS	<ul style="list-style-type: none">1 Injury pathology of the shoulder girdle2 Physiotherapeutic treatments of the shoulder girdle3 Pathology in physiotherapy of the shoulder4 Shoulder physiotherapy5 Pathology of the elbow6 Management of injuries to the elbow7 Pathologies in physiotherapy of the wrist and hand8 Physiotherapy treatments for the wrist and hand
Thematic Block II: Physiotherapy action of the MMII	<ul style="list-style-type: none">9 Lesional pathology of the pelvic girdle10 Physiotherapeutic treatments of the pelvic girdle11 Pathology in physical therapy of the hip.12 Physical therapy of the hip.13 Pathology of the knee.14 Management of knee injuries15 Pathologies in physiotherapy of the ankle and foot16 Physiotherapy Treatments of the Ankle and Foot
Thematic block III: Physiotherapy treatment of the amputee	<ul style="list-style-type: none">17 Main pathologies and sequelae of the amputee patient18 Planning a treatment for the amputee. Ghost member
Oral presentation of group work	Oral Exhibition by groups
PX 1.Exploration and Assessment of the pathologies of the MMSS.Raquis Cervical	Joint assessment and treatment. Muscle evaluation and treatment.
PX 2.Exploration and Assessment of the pathologies of the MMII.Raquis Dorso Lumbar.	Joint assessment and treatment. Muscle evaluation and treatment.



Temporary organization of learning:

Block of content	Number of sessions	Hours
Thematic block I: Physiotherapy action of the MMSS	12,00	24,00
Thematic Block II: Physiotherapy action of the MMII	12,00	24,00
Thematic block III: Physiotherapy treatment of the amputee	1,00	2,00
Oral presentation of group work	3,00	6,00
PX 1.Exploration and Assessment of the pathologies of the MMSS.Raquis Cervical	1,00	2,00
PX 2.Exploration and Assessment of the pathologies of the MMII.Raquis Dorso Lumbar.	1,00	2,00



References

Vilar E, Sureda, S. Physiotherapy of the Locomotor System. Mc Graw-Hill-Interamericana. Madrid, 2005. Reichel HS. Ploke CE. Physiotherapy of the Locomotor System. Paidotribo. Barcelona. 2007 .. Chaitow L. Clinical application of neuromuscular techniques I and II. Paidotribo 2005. Souhard PE. RPG: Principles of global postural reeducation. Paidotribo. 2010 Chaitow L. Muscle Power Techniques. Paidotribo. 2010 Greenman PE. Principles and practice of manual medicine. 3rd Ed. Panamericana. 2005. Gallego Izquierdo T. Theoretical bases and foundations of physiotherapy. Madrid: Panamerican Medical; 2007. A. BASAS GARCÍA, C. FERNÁNDEZ DE LAS PEÑAS, J.A. MARTÍN URRIALDE. Physiotherapeutic Treatment of the Knee Edt. McGraw-Hill. Interamerican of Spain. Madrid 2003. BUSQUET L. The muscular chains Volume II: Lordosis - Kyphosis - Scoliosis and Thoracic Deformities. Barcelona: Edt. Paidotribo; 1994. BUSQUET L. The muscular chains. Volume III: Pubalgia. Barcelona: Edt. Paidotribo; DE LA CRUZ MARQUEZ J.C .; CUETO MARTÍN B .; ESTEBAN MORENO B .; CUTANDA VICENTE A .; OSUNA BARRERO S. Introduction to Sports Physiotherapy. Edt. University of Granada. Granada 1999. GREGORY S. KOLT, LYNN SNYDER-MACKLER. Sports and Exercise Physiotherapy. Ed. Elsevier. Madrid 2004. GUILLÉN GARCÍA P. Sports injuries. Edt. Mapfre Foundation. Madrid 1996 9. MANGINE, R.E .: Physiotherapy of the knee. Edt JIMS, Barcelona. 1991. BUCKUP K. Clinical tests for bone, joint and muscle pathology. Barcelona: Masson; 2000. ARES p J, SAINZ DE MURIETA J, VARAS de la FUENTE, A. Physiotherapy of the Joint Complex of the Shoulder. Evaluation and Treatment of Soft Tissues. Editorial Masson. Barcelona; 2004