

Year 2023/2024

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240209 - General Procedures of Intervention II

Information about the subject

Degree: Bachelor of Science Degree in Physiotherapy

Faculty: Faculty of Medicine and Health Sciences

Code: 240209 Name: General Procedures of Intervention II

Credits: 6,00 ECTS Year: 2 Semester: 2

Module: MODULE 2: SPECIFIC

Subject Matter: General Procedures for Intervention in Physiotherapy Type: Compulsory

Jorge Alarcón Jiménez (Responsible Lecturer)

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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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	Cardiocirculary 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



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Legislation, Public Health and Health Administration Social Morality. Ethics

6,00

4/1

Recommended knowledge

Not precise

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 relates the different physical and manual means for each pathology. R2 Looks for bibliographical information from different sources and knows how to analyze it with a critical and constructive spirit. R3 Critically analyses the work. R4 The student is able to write a comprehensible text, organized on topics related to physiotherapy and work in a group. R5 Performs applications of electrotherapy techniques for specific pathologies. R6 Knows the physiological effects of electricity and related therapies on the human body. R7 Knows and reasons about the different purposes of physical means as treatment and diagnosis.



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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			Weig	hting	I
		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		1 1 1 1 1 1 1
CB5	Students develop those learning skills necessary to undertake further studies with a high degree of autonomy.		X		

GENEF	RAL	Weighting
		1 2 3 4
CG1	Students know the methods, procedures and physiotherapeutic actions, for the free exercise of the profession.	x
CG3	Correct application of therapeutics in re-education and functional recovery.	x

SPECIFIC	Weighting
	1 2 3 4



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CE5	Students know the physical bases of the different physical agents and their applications in Physiotherapy.			x
CE6	Students know the principles and applications of measurement procedures based on biomechanics and electrophysiology.		X	
CE9	Students assimilate theories of communication and interpersonal skills.			
CE11	Students identify the factors involved in teamwork and leadership situations.			
CE13	The structural, physiological, functional and behavioral changes that occur as a result of the intervention of 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
CE29	Students assess the functional state of the patient/user, considering the physical, psychological and social aspects.	X	1	
CE48	Students manifest a high degree of self-concept, with optimal self-acceptance, without self-centeredness but without prejudices.	X		
CE51	Show respect, appreciation and sensitivity to the work of others.	x		
CE52	Develop the ability to organize and lead work teams effectively and efficiently.		1	

TRANSVERSAL		Weighting				
	1	2	2	3	4	4
CT1	Decision-making	3	<			
CT2	Problem solving.			X		
СТЗ	Capacity for organization and planning.			X		
CT4	Analysis and synthesis capacity.	,	(
CT5	Oral and written communication in the native language.			X		
		100				



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СТ6	Information management capacity.			
CT7	Computer skills related to the field of study.	1		
СТ8	Knowledge of a foreign language.	1		
СТ9	Ethical commitment.	X		
CT10	Teamwork.		X	
CT11	Interpersonal relationship skills.	x		
CT12	Work in an interdisciplinary team			
CT13	Critical Reasoning	X		
CT14	Work in an international context.			
CT15	Recognition of diversity and multiculturalism			
CT16	Motivation for quality	X		
CT17	Adaptation to new situations.			
CT18	Creativity			-
CT19	Autonomous learning	x		
CT20	Initiative and entrepreneurship	x		
CT21	Leadership. X			
CT22	Knowledge of other cultures and customs			
CT23	Sensitivity to environmental issues.	X		





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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
	5,00%	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.



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40,00%

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.

5,00%

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

Both the theoretical and practical exam must be passed, and the final grade must be greater than 5.

To access the practical exam you must pass the theory.

To pass the subject, it will be compulsory to pass all the proposed items.

MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.

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.



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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.
M7	Discussion and problem solving.
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.



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IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theoretical lessons M1, M7, M15	R1, R4, R6, R7	35,00	1,40
Practice lessons M2, M7, M11, M12	R3, R5	15,00	0,60
Seminar M15	R2, R3	2,00	0,08
Office Hours M4	R1, R6	5,00	0,20
Assessment M5, M11	R1, R2, R3, R4, R5, R6, R7	3,00	0,12
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Autonomous work M16	R1, R4, R5, R7	68,00	2,72
Group work M14	R2, R4	22,00	0,88
TOTAL		90,00	3,60



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Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents		
Didactic Unit I Introduction, generalities.	Unit: 1 Electrotherapy concept. Physicochemical and physiological effects.		
Didactic Unit II: Electromagnetic physical agents, Low Frequency and direct current.	Unit 2 Direct Current / Galvanization and lontophoresis. Unit 3 Basics of downward currents. Analgesic currents, TENS. Unit 4 Electrostimulation currents. Unit 5 Electrodiagnosis and biofeedback		
Didactic unit III: Medium frequency and High Frequency electromagnetic physical agents.	Unit 6 Medium frequency currents. Unit 7 High frequency currents: short wave, microwave. Diathermy		
Didactic unit IV. Ultrasonic therapy, Phototherapy, electromagnetic fields	Unit 8 Ultrasonic Therapy Unit 9 Introduction to Ultrasound Unit 10 Phototherapy, magnetotherapy		
Didactic unit V: Practices	Practice 1: Generalities, direct current. Practice 2: Low frequency: Electroanalgesia Practice 3: Electrostimulation, electrodiagnosis, biofeedback Practice 4: Medium Frequency, High Frequency, Ultrasonic Therapy Practice 5: Ultrasound		



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Temporary organization of learning:

Block of content	Number of sessions	Hours
Didactic Unit I Introduction, generalities.	3,00	6,00
Didactic Unit II: Electromagnetic physical agents, Low Frequency and direct current.	9,00	18,00
Didactic unit III: Medium frequency and High Frequency electromagnetic physical agents.	6,00	12,00
Didactic unit IV. Ultrasonic therapy, Phototherapy, electromagnetic fields	5,00	10,00
Didactic unit V: Practices	7,00	14,00

References

- ·RODRIGUEZ MARTIN: Electroterapia en Fisioterapia, Panamericana, Madrid
- ·RIOJA, J.: Electroterapia y electrodiagnóstico. Universidad de Valladolid. Valladolid, 1993
- ·MORA, E.: Electroterapia interferencial. Fergisa. Madrid, 1989
- ·CAMERON MH. Agentes físicos en rehabilitación. De la investigación a la práctica. 3ª Edición. Elsevier. Barcelona España.2009.
- ·ALBORNOZ M, MEROÑO J. Procedimientos generales de fisioterapia. Práctica basada en la evidencia. Elsevier. Barcelona. 2012.
- ·ALBORNOZ CABELLO M, MAYA J, TOLEDO JV. Electroterapia práctica. Elsevier Health Sciences Spain T; 2016 439 p.
 - ·WATSON T. Elecatroaterapia práctica basada en la evidencia. Elsevier; 2009

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Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

Situation 1: Teaching without limited capacity (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

Situation 2: Teaching with limited capacity (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

X	Microsoft Teams		
	Kaltura		



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Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

X Microsoft Teams			
Kaltura			
Explanation about the practical sessions:			
The learning results are maintained, with	more emphasis	on the description	of the
procedure in a theoretical and practical way.	more emphasis	on the description	or the



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2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:			
	The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.		
X	The following changes will be made to adapt the subject's assessment to the online teaching.		

Course guide		Adaptation		
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used	
practical test	40	theoretical-practical exam 40%	TEAMS	

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System:

The rest of the evaluation instruments will not be modified with respect to what appears in the teaching guide.