

Course guide

Year 2024/2025 470305 - Physical Podiatry

Information about the subject

Degree: Bachelor of Science Degree in Podiatry

Faculty: Faculty of Medicine and Health Sciences

Code: 470305 Name: Physical Podiatry

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

Module: PODIATRIC PATHOLOGY, ORTHOPEDIC, PHYSICAL AND PHARMACOLOGICAL

TREATMENTS

Subject Matter: Therapeutics Type: Compulsory

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:





Module organization

PODIATRIC PATHOLOGY, ORTHOPEDIC, PHYSICAL AND

Subject Matter	ECTS	Subject	ECTS	Year/semester
Orthopodology	12,00	Orthopodiatry I	6,00	2/1
		Orthopodiatry II	6,00	2/2
Pathology	18,00	Dermatology	6,00	2/2
		General Pathology	6,00	2/1
		Podiatric Pathology	6,00	2/1
Therapeutics	12,00	Pharmacological Therapeutics	6,00	3/1
		Physical Podiatry	6,00	3/1

Recommended knowledge

it is not required





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 question and provide protocols to formulate the appropriate diagnosis of the different pathologies of the foot and lower limb.
- R2 Justifies the choice of the most appropriate physical treatment for foot pathologies.
- R3 Correctly applies the specific exploration protocols in podiatric pathology and its physical treatments.







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			W	eig	htin	g
		1		2	3	4
CB3	Students have the ability to gather and interpret relevant data (usually					x
	within their area of study) to make judgments that include reflection					
	on relevant social, scientific or ethical issues.					

SENERAL			Weighting			
		1	2	3	4	
CG1	Students know and apply the theoretical and methodological foundations of Chiropody and Podiatry.				X	
CG2	Students know the structure and function of the human body, especially of the lower limb, semiology, mechanisms, causes and general manifestations of the disease and diagnostic methods of medical and surgical pathological processes, interrelating general pathology with foot pathology.				X	
CG3	Students develop the capacity, ability and skill necessary to diagnose, prescribe, indicate, perform and/or elaborate and evaluate any type of podiatric, orthopedic, chiropractic, podiatric surgery, physical, pharmacological, preventive and/or educational treatment, based on the clinical history.				x	
CG5	Students collaborate with health professionals specifically trained in the field, in the adaptation and use of prostheses and necessary technical aids, according to the physical, psychological and social conditions of the patients.				x	
CG9	Students critically assess the terminology, clinical trials and methodology used in podology-related research.				x	
PECI	FIC		Weig	Jhting	,	

4

1

2

3





CE45	Students know and identify the pathological processes of the foot and systemic processes with podological repercussions, foot at risk and the clinical pathological parameters of structural and functional affections of the locomotive system in decubitus, static and dynamic standing. Identify dermatological lesions and their treatment. To know and apply the specific pharmacology for podological use.	X
CE49	Students know and apply the physical, electrical and manual methods in the therapy of the different pathologies of the foot. Functional bandages. Therapy of pain and inflammation in the foot.	x
CE52	Students know and use the techniques and treatments of chiropodology and drug administration.	x
CE58	Students know and apply the specific pharmacology for podiatric use. To know and use pre and post surgical pharmacology, the types of anesthesia in podiatry and application techniques.	x

RANS	VERSAL	Weighting
		1 2 3 4
CT1	Analytical capabilities	X
CT2	Organizational and planning skills	×
CT3	Oral and written communication in native language	×
CT6	Information management capacity	×
CT7	Problem solving	×
CT8	Decision making	x
CT9	Teamwork	×
CT10	Interdisciplinary teamwork	×
CT14	Critical Reasoning	×
CT15	Ethical commitment	×





CT16 Autonomous learning	x
CT17 Adaptation to new situations	x
CT18 Creativity	x
CT21 Initiative and entrepreneurship	x
CT22 Motivation for quality	x

Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	0,00%	Open questions
	75,00%	Tests
	10,00%	Oral presentation
	15,00%	Practice (exercises, case studies, problems)

Observations

The multiple-choice test consists of 50 multiple-choice questions (with four answers, only one of which is correct). Each incorrect answer will count for 0.33. This test is worth 75% of the total. The student will have 90 minutes to answer the open questions and the multiple-choice test. Class participation, understood as attendance to the theoretical classes, will not be compulsory to take the multiple-choice test, nor will it count towards the final mark.

The teaching practicals are compulsory with 15% of the total final mark, and the presentation of clinical cases will add up to 10%. If the student does not attend the practicals, he/she will not be able to take the multiple-choice exam.

MINIMUM REQUIREMENTS TO PASS THE COURSE:

In order to pass the course, a minimum of 5 must be obtained in the multiple-choice exam. If this figure is not exceeded, neither the practical attendance nor the clinical case presentation will be added up.





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.

_earning activities

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

- M1 Theoretical classes (TC). Training activity preferably oriented to the acquisition of knowledge skills. It is characterised by the fact that students are spoken to. Also called master class or expository class, it refers to the oral exposition made by the teacher, (with the support of a blackboard, computer and cannon for the exposition of texts, graphics, etc.).
- M2 Seminars (S). Training activity preferably oriented to obtain knowledge application and research competences. Knowledge is built through interaction and activity. Consisting of supervised monographic sessions with shared participation (Teachers, students, experts). The size of the group is variable, from a large group to small groups, no less than 6 students for interaction. The evaluation will be made by means of follow-up records by the teacher. Participation and development of problem-solving skills should be taken into account.
- M3 Problems practice (CPP). Training activity oriented to group work for problem solving under the supervision of a teacher. The size of the group is variable, in a range of 10-20 students, to avoid confusion with a master class.
- M4 Classroom practice (CPA). Training activity of work in groups that is developed in the classroom. It includes work with documents (e.g.: work with articles or documents, clinical case studies, diagnostic analyses, etc). The size of the group is variable, in a range of 10-20 students.
- M5 Computer Practice (CPI). Training activity of work in groups that is developed in the Computer Classroom where the learning is developed using the computer as a support. It includes the work with computer models, specific software, web queries, etc. The size of the group is variable, in a range of 10-20 students.





- M6 Laboratory Practice (CPL). Training activity of work in groups that is developed in the Laboratory. It includes the sessions where students actively and autonomously develop, supervised by the teacher, laboratory experiments. The size of the group is variable, in a range of 10-20 students.
- M7 Tutorials (T). Set of activities carried out by the teacher with personalised attention to the student or in small groups with the aim of reviewing and discussing the materials and topics presented in the classes, seminars, readings, completion of assignments, etc. The aim is to ensure that education is truly a comprehensive training of the student and is not reduced to a transfer of information. It is, therefore, a personalized relationship of help in which the teacher-tutor attends, facilitates and guides one or more students in the formative process.
- M8 Evaluation (Ev). It is the set of processes that try to evaluate the learning results obtained by the students and expressed in terms of acquired knowledge, capacities, developed skills or abilities and manifested attitudes. It covers a wide range of activities that can be developed for students to demonstrate their training (e.g. written, oral and practical tests, projects or assignments,). It also includes Official Calls.
- M10 Estudio del alumno: Preparación individual de lecturas, ensayos, resolución de problemas, seminarios





IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theoretical lessons	R1, R2, R3	40,00	1,60
Seminar ^{M2}	R1, R2, R3	4,00	0,16
Practice lessons ^{M4}	R1, R2, R3	12,00	0,48
Office Hours	R1, R2, R3	2,00	0,08
Evaluation ^{M8}	R1, R2, R3	2,00	0,08
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Autonomous work	R1, R2, R3	65,00	2,60
Group work M10	R1, R2, R3	25,00	1,00
TOTAL		90,00	3,60





Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
INTRODUCTION TO PHYSICAL AGENTS	 Introduction to physical agents and physical medicine
ANKLE / FOOT ASSESSMENT	 Ankle / foot osteopathy Theoretical-practice of ankle / foot osteopathy Ankle / foot manual therapy ankle / foot theoretical practice
SUPERIOR AND DEEP DRY PUNCTURE	 ·Myofascial trigger points. Principles and fundamentals of superficial and deep dry puncture. ·Theoretical practice of superficial dry puncture.
BANDAGES	 Introduction to functional bandaging. Indications, contraindications, methods of use. Introduction to the neuromuscular bandage. Indications, contraindications, methods of use. Introduction to venous and lymphatic bandage. Indications, contraindications, methods of use. Theoretical practice of functional, neuromuscular and circulatory bandaging.
THERMOTHERAPY, CRYOTHERAPY AND HYDROTHERAPY	·Bases of cryo-thermotherapy. Superficial thermotherapy and cryotherapy applied to the ankle / foot. ·Hydrotherapy Bases.



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LOW AND MEDIUM FREQUENCY ELECTROTHERAPY

·Introduction to electrotherapy. Generalities, instrumentation, biological effects, indications and contraindications.

·Direct current: galvanic current. Intophoresis.

·Percutaneous Intratisular Electrolysis.

·Diadynamic currents. Traëbert currents.

·Interferential currents.

·TENS and NMES.

·Main applications of electrostimulation. Neuromodulation.

HIGH FREQUENCY ELECTROTHERAPY

PHOTOTHERAPY

VIBROTHERAPY AND BAROTHERAPY

Vibrotherapy concept and application modalities
Ultrasonic therapy. Sonophoresis
Barotherapy

·Bases of diathermy and non-ionizing radiation.

·Ultraviolet radiation and infrared radiation.

·Shock waves

·L.A.S.E.R.

CLINICAL CASES

·Resolution of clinical cases

·Shortwave and Microwave.





Temporary organization of learning:

Block of content	Number of sessions	Hours
INTRODUCTION TO PHYSICAL AGENTS	1,00	2,00
ANKLE / FOOT ASSESSMENT	4,00	8,00
SUPERIOR AND DEEP DRY PUNCTURE	2,00	4,00
BANDAGES	4,00	8,00
THERMOTHERAPY, CRYOTHERAPY AND HYDROTHERAPY	2,00	4,00
LOW AND MEDIUM FREQUENCY ELECTROTHERAPY	7,00	14,00
HIGH FREQUENCY ELECTROTHERAPY	2,00	4,00
PHOTOTHERAPY	2,00	4,00
VIBROTHERAPY AND BAROTHERAPY	4,00	8,00
CLINICAL CASES	2,00	4,00





References

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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:



Microsoft Teams



Kaltura





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:



Microsoft Teams



Kaltura

Explanation about the practical sessions:

the practices are presential





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

ONSITE WORK

Regarding the Assessment Tools:

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The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.



The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptatio	on
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

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

Comments to the Assessment System:

Evaluation systems are not changed