

Year 2023/2024 472005 - Sports Podiatry

Information about the subject

Degree: Bachelor of Science Degree in Podiatry

Faculty: Faculty of Medicine and Health Sciences

Code: 472005 Name: Sports Podiatry

Credits: 6,00 ECTS Year: 3 Semester: 2

Module: GENERAL PODOLOGY AND BIOMECHANICS

Subject Matter: Biomechanics Type: Elective

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

PI-02-F-16 ED. 00 1/15



Year 2023/2024 472005 - Sports Podiatry

Module organization

GENERAL PODOLOGY AND BIOMECHANICS

Subject Matter	ECTS	Subject	ECTS	Year/semester
General Podiatry	21,00	Evolutionary Podiatry	3,00	This elective is not offered in the academic year 23/24
		Expertise in podiatry	3,00	This elective is not offered in the academic year 23/24
		General Podiatry	6,00	1/2
		Preventive Podiatry	3,00	4/1
		Social Morality. Deontology	6,00	3/1
Biomechanics	27,00	Biomechanics	6,00	2/2
		Ergonomics and footwear	3,00	4/1
		General Intervention Procedures	6,00	This elective is not offered in the academic year 23/24
		Physiotherapy Assessment	6,00	This elective is not offered in the academic year 23/24
		Sports Podiatry	6,00	3/2
Radiology	6,00	Radiology and Radiation Protection	6,00	3/1

PI-02-F-16 ED. 00 2/15



Year 2023/2024 472005 - Sports Podiatry

Research and management	12,00	Introduction to research and sanitary documentation	6,00	4/1
		Planning and management of the podiatric clinic	6,00	4/2

Recommended knowledge

There are no set prerequisites

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	Completes the orthopodological clinical history.
R2	Knows the area of performance of sports podology.
R3	Evaluates both the physiological and pathological processes that affect the foot in the athlete.
R4	The student can describe, analyze and apply the main treatments in the field of sports podology.
R5	The student conducts a study of the sports footwear based on the characteristics of the surface and modality of the sport to be developed.
R6	The student is trained to know the exploratory methods and to evaluate the results.
R7	The student knows the different competences of the members of a multidisciplinary team.

PI-02-F-16 ED. 00 3/15



Year 2023/2024 472005 - Sports Podiatry

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	ASIC		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				
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				

GENEF	RAL		Weig	hting	
		1	2	3 (4
CG1	Students know and apply the theoretical and methodological foundations of Chiropody and Podiatry.		X		2,1
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	
CG4	Students acquire adequate clinical experience in each of the podiatry contents, carried out in centres accredited for university podiatry training, promoting interrelationship and effective communication with patients, relatives, and members of the multidisciplinary team.			x	

PI-02-F-16 ED. 00 4/15



Year 2023/2024 472005 - Sports Podiatry

CG8	Acquire work skills in the educational and research environments, health care, as well as in uniprofessional and multiprofessional teams. Advise on the development and implementation of care and education policies on issues related to prevention and podiatry care	X	
CG10	Identify that the practice of the profession is based on respect for patient autonomy, beliefs, culture, genetic, demographic and socio-economic determinants, applying the principles of social justice and understanding the ethical implications in a changing global context.	x	

SPECIF	IC		We	ig	hting	3
		1	2	<u>·</u>	3	4
CE37	Students know the basics of biomechanics and kinesiology. Support theories. Human walking. Structural alterations of the foot. Postural alterations of the locomotive system with repercussions on the foot and vice versa. Instruments of biomechanical analysis.					X
CE39	Students know the basics of podiatry. Ergonomics. History of the profession and conceptual framework. Concept of the profession. Technical nomenclature used in health sciences. Students acquire skills in the clinical management of podiatry services.		75		X	
CE48	Students design, obtain and apply by means of different techniques and materials the plantar supports and digital orthoses, prostheses, splints. Plantar and digital orthoses. Study of footwear and shoe therapy. Prescription of orthopaedic treatments of the lower limb				X	

TRANS	VERSAL	\	V ei	gh	ting	3	
	1		2		3	4	
CT1	Analytical capabilities				X		
CT2	Organizational and planning skills				X		
СТЗ	Oral and written communication in native language				X		
СТ6	Information management capacity				X		
CT7	Problem solving				X		

PI-02-F-16 ED. 00 5/15



Year 2023/2024 472005 - Sports Podiatry

CT8 Decision making		x
CT10 Interdisciplinary teamwork		x
CT14 Critical Reasoning	1	x
CT15 Ethical commitment		x
CT16 Autonomous learning		x
CT17 Adaptation to new situations		x
CT18 Creativity	1	x
CT22 Motivation for quality		x

Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	30,00%	Open questions
	50,00%	Tests
	5,00%	Oral presentation
	10,00%	Practice (exercises, case studies, problems)
	5,00%	Class participation
Observations		

PI-02-F-16 ED. 00 6/15



Year 2023/2024 472005 - Sports Podiatry

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 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.

PI-02-F-16 ED. 00 7/15



Year 2023/2024 472005 - Sports Podiatry

- 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.
- 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

PI-02-F-16 ED. 00 8/15



Year 2023/2024 472005 - Sports Podiatry

IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theoretical lessons	R1, R2, R3, R4, R5, R6, R7	25,00	1,00
Practice lessons M4	R1, R2, R3, R4, R5, R6, R7	26,00	1,04
Office Hours	R1, R2, R3, R4, R5, R6, R7	4,00	0,16
Evaluation _{M8}	R1, R2, R3, R4, R5, R6, R7	5,00	0,20
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Autonomous work	R1, R2, R3, R4, R5, R6, R7	65,00	2,60
M10 Group work M10	R1, R2, R3, R4, R5, R6, R7	25,00	1,00
TOTAL		90,00	3,60

PI-02-F-16 ED. 00 9/15



Year 2023/2024 472005 - Sports Podiatry

Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
BASICS IN SPORTS PODIATRY	Sport Podiatry History
SPORT SCIENCE	Sport Podiatry Examination. Practical lecture
Sports Podiatry Pathology	Hip pathology Knee pathology Ankle pathology Foot pathology
SPORTS PODIATRY BIOMECHANICS	Running Gait Analysis
FOOTWEAR IN SPORT	Footwear and materials in Sports Podiatry
FOOTWEAR IN SPORT	Footwear and materials in Sports Podiatry
INJURY TREATMENT	Diagnosis thru image: Ultrasound, MRI, X-ray New biologic treatments: PRP

PI-02-F-16 ED. 00 10/15



Year 2023/2024 472005 - Sports Podiatry

Temporary organization of learning:

Block of content	Number of sessions	Hours	
BASICS IN SPORTS PODIATRY	1,00	2,00	
SPORT SCIENCE	6,00	12,00	
Sports Podiatry Pathology	8,00	16,00	
SPORTS PODIATRY BIOMECHANICS	5,00	10,00	
FOOTWEAR IN SPORT	2,00	4,00	
FOOTWEAR IN SPORT	3,00	6,00	
INJURY TREATMENT	5,00	10,00	

PI-02-F-16 ED. 00 11/15



Year 2023/2024 472005 - Sports Podiatry

References

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Hill, John C., and Iñigo San Millán. "Validation of Musculoskeletal Ultrasound to Assess and Quantify Muscle Glycogen Content. A Novel Approach." *The Physician and Sportsmedicine* 42, no. 3 (September 2014): 45–52. https://doi.org/10.3810/psm.2014.09.2075.

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PI-02-F-16 ED. 00 12/15



Year 2023/2024 472005 - Sports Podiatry

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.

<u>Situation 1: Teaching without limited capacity</u> (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.

<u>Situation 2: Teaching with limited capacity</u> (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:

Х	Microsoft Teams		
	Kaltura		

PI-02-F-16 ED. 00 13/15



Year 2023/2024 472005 - Sports Podiatry

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:

χ Microsoft Teams				
Kaltura				
Explanation about the practical sessions:				
There are two practical sessions, one of them will be the biomechanical analysis of the race				
and the second will be a group presentation about the origins of sports podiatry.				

PI-02-F-16 ED. 00 14/15



Year 2023/2024 472005 - Sports Podiatry

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

ONSITE WORK

Regarding the Assessment Tools:							
X	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		Adaptation					
	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:

PI-02-F-16 ED. 00 15/15