



## Information about the subject

**Degree:** Bachelor of Science Degree in Podiatry

**Faculty:** Faculty of Medicine and Health Sciences

**Code:** 470304 **Name:** Podiatric Surgery II

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

**Module:** CHIROPODOLOGY AND PODIATRIC SURGERY

**Subject Matter:** Surgery **Type:** Compulsory

**Field of knowledge:** Health Sciences

**Department:** Pathology

**Type of learning:** Classroom-based learning

**Languages in which it is taught:** Spanish

### Lecturer/-s:

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## Module organization

### CHIROPODOLOGY AND PODIATRIC SURGERY

Subject Matter	ECTS	Subject	ECTS	Year/semester
Chiropodology	12,00	Chiropody I	6,00	2/1
		Chiropody II	6,00	2/2
Surgery	12,00	Podiatric Surgery I	6,00	3/1
		Podiatric Surgery II	6,00	3/2
Anesthesia and Resuscitation	6,00	Anaesthesia and Resuscitation	6,00	3/1

## Recommended knowledge

No 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 decides on the indication for surgical treatment of a forefoot osteoarticular surgery in a series of clinical cases.
- R2      The student performs the skin plasty techniques in skin simulators.
- R3      The student recognizes the surgical instruments of osteoarticular surgery in the laboratory activities or in an oral test.
- R4      The student performs the pre-surgical and post-surgical protocol in different clinical cases exposed.
- R5      The student performs mid-radius and claw finger surgical procedures on cadaver specimens or on simulators.
- R6      The student performs the first and fifth radius surgical procedures on cadaver specimens or on simulators.
- R7      The student performs goniometric measurements of the forefoot pathology.



## 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
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
CB5	Students develop those learning skills necessary to undertake further studies with a high degree of autonomy.				X

GENERAL		Weighting			
		1	2	3	4
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
CG6	Students acquire the ability to perform patient-centred clinical management, health economics and efficient use of health resources, as well as effective management of clinical documentation, with particular attention to confidentiality.	X			
CG9	Students critically assess the terminology, clinical trials and methodology used in podology-related research.	X			

SPECIFIC		Weighting			
		1	2	3	4



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TRANSVERSAL		Weighting			
		1	2	3	4
CT1	Analytical capabilities				X
CT7	Problem solving				X
CT8	Decision making				X
CT9	Teamwork			X	
CT10	Interdisciplinary teamwork			X	
CT14	Critical Reasoning				X
CT15	Ethical commitment				X
CT16	Autonomous learning				X



CT17 Adaptation to new situations

x

CT22 Motivation for quality

x



## Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R3, R4, R7	20,00%	Open questions
R1, R3, R4, R7	60,00%	Tests
R1, R3, R4, R7	5,00%	Practice (exercises, case studies, problems)
R1, R3, R4, R7	0,00%	Class participation
R1, R2, R3, R4, R5, R6, R7	15,00%	Practice exam- technical proficiency testing

### Observations

**EVALUATION INSTRUMENTS** The Open Questions will consist of two short answer questions. This test is worth 20% of the total.

The multiple choice test will consist of an exam of 40 multiple choice questions (with four answers of which only one will be correct). Each incorrect answer will subtract 0.33. This test is worth 60% of the total.

The open questions and the multiple choice test will be carried out at the same time. Both tests correspond to the theoretical exam, which is worth 80% of the total grade. which is an 8 out of 10. This part will be considered approved when a 4 out of 8 points is obtained. It will be necessary to pass this part to take the Practical exam. The student will have 90 minutes to answer the open questions and the multiple choice test.

The practical exam will consist of an oral exam, in which practical skills will be demonstrated. It will consist of questions about the skills developed in the practical sessions. The skill(s) to be developed will be assigned at random, at the time of the exam. This part is worth 15% of the total. You must obtain a 0.75 to pass this exam. If the practical exam is taken and passed, the grade will not be added to the theoretical exam if a minimum of 4 points is not obtained in it.

Questions about two clinical cases will have to be resolved, which will be published well in advance on the UCVNet platform. This evaluation instrument represents 5% of the total grade. Each clinical case will be 2.5% of the grade. This grade will not be added if the practical exam and the theoretical exam have not been passed.

Participation in class, understood as attendance at theoretical classes, will not be mandatory to take the open question exam and the tes test, nor will it count towards the final grade.

**MINIMUM REQUIREMENTS TO PASS THE SUBJECT:**



To pass the subject, you must pass the theoretical exam (open questions and multiple choice test) and the practical exam. If you pass the theoretical exam in the first call and not the practical exam, the theoretical exam grade will be saved for the second call. If the theoretical exam is not passed in the first call, the practical exam will not be taken and the subject cannot be passed. In this case, it will be necessary to repeat the theoretical exam in the second call, and take the practical exam only if the theoretical exam is passed.

### 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 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.





- 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.
- 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 M1	R1, R4, R7	49,00	1,96
Practice lessons M4, M6	R1, R2, R3, R4, R5, R6, R7	8,00	0,32
Evaluation M8	R1, R2, R3, R4, R5, R6, R7	3,00	0,12
<b>TOTAL</b>		<b>60,00</b>	<b>2,40</b>

## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Autonomous work M10		90,00	3,60
<b>TOTAL</b>		<b>90,00</b>	<b>3,60</b>



## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

### Theoretical contents:

Content block	Contents
DIDACTIC UNIT I. INTRODUCTION	Introduction Equipment and instruments. Conventional surgery and MIS surgery.
DIDACTIC UNIT II. SURGERY OF MIDDLE RADIOS AND CLAW FINGERS	<ul style="list-style-type: none"><li>-Surgical treatment of interdigital and dorsal exostosis. Conventional surgery and MIS surgery.</li><li>-Surgical treatment of digital alterations and tenotomies. Conventional surgery and MIS surgery.</li><li>- Surgical treatment of metatarsal alterations of the minor rays. Conventional surgery and MIS surgery.</li></ul>
DIDACTIC UNIT III. FIRST RADIO SURGERY	<p>Conventional surgery and MIS for HV and Hallux Limitus / Rigidus pathologies:</p> <ul style="list-style-type: none"><li>o Pre-surgical considerations o Anatomical dissection of the first radius</li><li>o Resection of exostoses and procedures on soft tissues o Capital osteotomies. Conventional surgery and MIS surgery.</li><li>o Distal and subcapital osteotomies. Conventional surgery and MIS surgery.</li><li>o Middiaphyseal osteotomies.</li><li>o Proximal osteotomies</li><li>o Metatarsocuneal osteotomies</li><li>o Phalangeal osteotomies</li><li>o Arthroplasties of the first metatarsophalangeal joint</li><li>o Implants</li><li>o Arthrodesis of the first metatarsophalangeal joint</li><li>o Bandages</li></ul>
DIDACTIC UNIT IV. FIFTH RADIO SURGERY	<ul style="list-style-type: none"><li>- Conventional Surgery and MIS Surgery</li></ul>
DIDACTIC UNIT V. MIDDLE AND RETROPE SURGERY	<ul style="list-style-type: none"><li>-Heal spur syndrome surgery: exostectomy and fasciotomy</li><li>-Haglund exostosis surgery -Adult valgus flatfoot surgery.</li><li>-Flat foot surgery.</li></ul>



## Temporary organization of learning:

Block of content	Number of sessions	Hours
DIDACTIC UNIT I. INTRODUCTION	3,00	6,00
DIDACTIC UNIT II. SURGERY OF MIDDLE RADIOS AND CLAW FINGERS	10,00	20,00
DIDACTIC UNIT III. FIRST RADIO SURGERY	13,00	26,00
DIDACTIC UNIT IV. FIFTH RADIO SURGERY	1,00	2,00
DIDACTIC UNIT V. MIDDLE AND RETROPE SURGERY	3,00	6,00



## References

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9. Percutaneous foot surgery. De Prado, M. Ed Masson. Barcelona, 2003.
10. Nieto-García E. Minimally Invasive Foot Surgery. In: Surgery minimally invasive foot. Valencia: Glosa Editions; 2017.
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12. Bycure Blair M. Bycure on Minimal Incision. FURTHER READING: McGlamry, E.D. (ed.) Comprehensive textbook of foot surgery Baltimore [etc.]: Williams & Wilkins, cop. 1992
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20. Fernandez de Renata P, Alvarez F, Viladot R. Subtalar arthroereisis in pediatric flatfoot reconstruction. foot ankle clin. 2010.