

**1. General information****Course:** ORTHOPODIATRY II**Type:** CORE COURSE**Degree:** 399 - PODIATRY DEGREE**Center:** 16 - FACULTY OF SCIENCES OF THE HEALTH OF TALAVERA**Year:** 2**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 32517**ECTS credits:** 6**Academic year:** 2022-23**Group(s):** 60 61**Duration:** C2**Second language:** Spanish**English Friendly:** Y**Bilingual:** N**Lecturer:** JESUS MANUEL PÉREZ MUÑOZ - Group(s): 60 61

Building/Office	Department	Phone number	Email	Office hours
	ENFERMERÍA, FISIOTERAPIA Y TERAPIA OCUP.		JesusM.Perez@uclm.es	

2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

Orthopedology II as a continuation Orthopedology I, deepens the knowledge necessary for the orthopedic treatments of the foot and leg. The necessary knowledge and skills are acquired at a basic level and will be perfected during the Practicum.

In addition, it is related in a transversal way with the other subjects, complementing them and providing a global vision of the intervention of the podiatrist in the field of orthopedics.

4. Degree competences achieved in this course**Course competences**

Code	Description
CB01	Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge.
CB02	Apply their knowledge to their job or vocation in a professional manner and show that they have the competences to construct and justify arguments and solve problems within their subject area.
CB03	Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant social, scientific or ethical issues.
CB04	Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.
CB05	Have developed the necessary learning abilities to carry on studying autonomously
CE23	Know and develop the techniques of exploration, to issue a diagnosis and prognosis, and design the orthopedological course of treatment for the pathology of the lower extremity. Bone and ligamentous-muscle trauma. Pathology of the forefoot and hindfoot. Congenital deformities. Neurological injuries. Amputations. Asymmetries
CE24	Develop the skill and dexterity in the use of instruments, material and device used for the preparation and application of orthopedological treatments. General concept of orthopedics. The orthopedological workshop. Technology of orthopedological therapeutic materials. Fundamentals and techniques for foot-leg molding.
CE25	Design, obtain and apply by different techniques and materials the plantar supports and digital orthoses, prostheses, splints. Plantar and digital orthotics. Study of footwear and footwear-based therapy. Prescription of orthopaedic treatments of the lower extremity.
GC01	Know and apply the theoretical and methodological foundations of Podiatry.
GC03	Obtain the capacity, skill and ability necessary to diagnose, prescribe, indicate, perform and/or develop and evaluate any type of podiatric, orthopedological, chiropodological, surgical, physical, pharmacological, preventive and/or educational treatment, based on the clinical history.
GC07	Know, design and apply preventive programs related to podiatry and the promotion of podiatric care in the population.

5. Objectives or Learning Outcomes**Course learning outcomes****Description**

To identify the medical complications during the course of orthopedic treatments and know how to manage them

To know the mechanical effects of the different orthopedic elements and handling themselves in the treatment of musculoskeletal system of the foot and lower limb diseases.

To know the different orthopedic and conservative treatments that can be used for foot and lower limb musculoskeletal system diseases.

To design an orthopedic treatment plan focus on different musculoskeletal system of the foot and lower limb diseases.

6. Units / Contents**Unit 1: INTRODUCTION TO THE SUBJECT.**

Unit 1.1 Presentation and teaching plan of the subject.

Unit 2: ORTHOPODOLOGICAL APPROACH TO STRUCTURAL, ROTATIONAL AND GROWTH ALTERATIONS IN THE LOWER LIMB.**Unit 2.1** Treatment the spine and pelvic girdle structural alterations.**Unit 2.2** Treatments of heterometries.**Unit 2.3** Treatment of rotational and torsional alterations of lower limbs.**Unit 2.4** Treatment of growth pathology. Dislocations, osteochondrosis and angular alterations.**Unit 3: ORTHOPODOLOGICAL APPROACH TO THE FOOT STRUCTURAL ALTERATIONS****Unit 3.1** Treatment of morphological and functional alterations due to decreased plantar arch.**Unit 3.2** Treatment of morphological and functional alterations due to increased plantar arch.**Unit 3.3** Treatment of morphological and functional alterations in the transverse plane: Equine Foot, Congenital Vertical Talus and Clubfoot.**Unit 3.4** Treatment of Tarsal Coalition.**Unit 4: ORTHOPODOLOGICAL APPROACH TO FOREFOOT PATHOLOGY.****Unit 4.1** Treatment of the structural alteration of the first radius: Hallux Abductus Valgus, Hallux varus, Hallux extensus y Hallux flexus.**Unit 4.2** Treatment of alterations in first-radius mobility: first ray deficiency.**Unit 4.3** Treatment of medial ray deficiency.**Unit 4.4** Treatments of numerical alterations, and of medial ray.**Unit 4.5** Treatment of fractures, subluxations and dislocations of the forefoot.**Unit 5: ORTHOPODOLOGICAL APPROACH OF METATARSALGIAS.****Unit 5.1** Treatment of metatarsalgias with biomechanical etiology.**Unit 5.2** Treatment of metatarsalgias with inflammatory etiology. Morton Neuroma and Sesamoiditis.**Unit 6: ORTHOPODOLOGICAL APPROACH OF TALALGIAS****Unit 6.1** Treatment of posterior Impingement Syndrome, Sinus tarsi syndrome, tarsal tunnel syndrome**Unit 6.2** Treatment of Calcaneal Spur and Haglund syndrome.**Unit 6.3** Treatment with inflammatory etiology: Bursitis and enthesitis. Plantar fasciitis and plantar fibromatosis.**Unit 6.4** Treatment of ankle sprains and chronic ankle instability.**Unit 7: ORTHOPODOLOGICAL APPROACH TO FOOT OSTEOCHONDROSIS.****Unit 7.1** Treatment of Sever's disease.**Unit 7.2** Treatment of Köller's disease.**Unit 7.3** Treatment of Freiberg's disease.**Unit 7.4** Treatment of Renander's disease.**Unit 8: ORTHOPODOLOGICAL APPROACH TO SYSTEMIC PATHOLOGY AFFECTING THE FOOT.****Unit 8.1** Treatment of Rheumatoid Arthritis.**Unit 8.2** Treatment of Gouty Arthritis.**Unit 8.3** Treatment of Diabetic Foot Syndrome. Neurological and vascular alterations.**Unit 9: ORTHOPODOLOGICAL APPROACH TO AMPUTATIONS.****Unit 9.1** Prosthesis in patients with Chopart amputation.**Unit 9.2** Prosthesis in patients with Lisfranc amputation.**Unit 9.3** Prosthesis in patients with amputation of the fingers.**7. Activities, Units/Modules and Methodology**

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CB01 CB02 CB03 CB04 CB05 CE23 CE24 CE25 GC01 GC03 GC07	1.4	35	Y	N	Lessons are taught by the teacher of the subject. Evaluable in Final Test.
Workshops or seminars [ON-SITE]	Practical or hands-on activities	CB01 CB02 CB03 CB04 CB05 CE23 CE24 CE25 GC01 GC03 GC07	0.8	20	Y	Y	Seminars, workshops and/or group practices for case report solving and simulation work. Evaluable in Practical Exam. Can be re-evaluated but not repeated.
Final test [ON-SITE]	Assessment tests	CB01 CB02 CB03 CB04 CB05 CE23 CE24 CE25 GC01 GC03 GC07	0.2	5	Y	Y	Making reports, jobs or reports in a group. Evaluable in Practical Exam. Can be re-evaluated.
Writing of reports or projects [OFF-SITE]	Individual presentation of projects and reports	CB01 CB02 CB03 CB04 CB05 CE23 CE24 CE25 GC01 GC03 GC07	0.8	20	Y	N	Independent work carried out by the student. Evaluable in Final Test or Practical Exam. Can be re-evaluated.
Study and Exam Preparation [OFF-SITE]	Self-study	CB01 CB02 CB03 CB04 CB05 CE23 CE24 CE25 GC01 GC03 GC07	2.8	70	Y	N	Multi-response test. Evaluable in Final Test.
Total:			6	150			
Total credits of in-class work: 2.4			Total class time hours: 60				
Total credits of out of class work: 3.6			Total hours of out of class work: 90				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System

Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Final test	70.00%	70.00%	The final exam will be of the test type and the score will be calculated as follows: Final test =((right questions-(wrong

Practical exam	20.00%	20.00%	questions/2)/(number of question) x 10 Evaluation will be according to the student's performance or exercises for continuous assessment.
Practicum and practical activities reports assessment	10.00%	10.00%	Independent work carried out by the student. Deadline, second to last week of the semester. Can be re-evaluated
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

The current grading system shall apply; currently, uclm student evaluation regulations, approved on May 23th, 2022.

The global evaluation will be carried out based on the average of the evaluation systems (final test and practices). The student must reach 40% of the final test.

Non-continuous evaluation:

The current grading system shall apply; currently, uclm student evaluation regulations, approved on May 23th, 2022.

The Global evaluation will be carried out based on the average of the evaluation systems (final test and practices). The student must reach 40% from each evaluation system.

Specifications for the resit/retake exam:

The grade of the practices, which have been pass by the student up to a maximum of two academic years from the current course, will be kept, provided that the training activities are not modified

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
General comments about the planning: The planning of the training activities during the course will be adapted to the needs of the students and may change depending on the criteria of the teacher of the subject. The official academic calendar will be followed at all times.	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Levy Benasuly, Ana Esther. Cortés Barragán, José Manuel.	Ortopodología y aparato locomotor ortopedia de pie y tobillo	Masson	Barcelona	9788445812990	2003	
Turner, W.A., Merriman, L.M.	Habilidades clínicas para el tratamiento del pie.	Elsevier		8480862084	2008	
Ramón Viladot Pericé; Salvador Clavell Paloma; Oriol Cohí Rimbau	Ortesis y prótesis del aparato locomotor. Vol.2, Extremidad inferior	Masson	Barcelona		1997	
Graham Apley, A.	Manual de Ortopedia y fracturas	Masson		8445803913	1997	
Munuera, P. V.	El primer radio: biomecánica y ortopodología	Exa Editores	Santander	9788461608331	2009	
Zambudio Periago, Ramón	Prótesis, ortesis y ayudas técnicas	Masson		9788445819692	2009	