



## Teaching Guide

Identifying Data					2022/23	
Subject (*)	Digital Orthopedics and Footwear Therapy [to extinguish]			Code	750G02020	
Study programme	Grao en Podoloxía					
Descriptors						
Cycle	Period	Year	Type	Credits		
Graduate	2nd four-month period	Third	Obligatory	6		
Language	Galician					
Teaching method	Face-to-face					
Prerequisites						
Department	Ciencias da Saúde					
Coordinador	López López, Daniel	E-mail	daniel.lopez.lopez@udc.es			
Lecturers	López López, Daniel	E-mail	daniel.lopez.lopez@udc.es			
Web	campusvirtual.udc.gal/					
General description	<p>A asignatura de ortesioloxía dixital e calzadoterapia posee unha clara importancia de cara a que o alumnado desenrole coñecementos, habilidades e destrezas importantes no proceso ensinanza ? aprendizaxe do seu proceso formador para mellorar a saúde das persoas.</p> <p>O valor é moi significativo para o futuro podólogo, de cara a comprender, actuar e profundizar no campo terapéutico da ortoprótesis, no uso e a indicación de produtos sanitarios podolóxicos, proporcionándolle unha formación básica de coñecementos teóricos e destrezas prácticas, co fin de que adquira as competencias básicas relacionadas ca prescripción, deseño e obtención das principais orteses dixitais e próteses do pe e coñeza a súa relación co resto do membro inferior.</p> <p>Mediante a prescripción de dispositivos orto-protésicos a medida ou prefabricados, numerosos estudos demostraron a eficacia destes dispositivos tanto na redución da sintomatoloxía, como na recuperación da funcionalidade de diversas situacións patolóxicas debidas a alteracións estruturais ou funcionais do pe ou dalgunha outra estrutura do membro inferior.</p>					

## Study programme competences

Code	Study programme competences
A22	Deseñar, obter e aplicar mediante diferentes técnicas e materiais os ortesis plantares e ortesis dixitais, próteses, férulas. Ortesiología plantar e dixital. Estudo do calzado e calzadoterapia. Prescripción de tratamentos ortopédicos da extremidade inferior.
B7	Comunicarse de maneira efectiva nun entorno de traballo.
C7	Asumir como profesional e cidadán a importancia da aprendizaxe ao longo da vida.

## Learning outcomes

Learning outcomes	Study programme competences		
Designing, obtaining and applying different techniques and materials by the orthotics and digital orthoses, prostheses, splints. Plantar and digital orthotics . Study of footwear and therapy shoes. Orthotic treatment prescription lower extremity.	A22	B7	C7
Design, procure and implement using different techniques and the orthotics digital.	A22	B7	C7
Prescribe and implement plantar and digital orthoses on podiatric conditions Morphological and functional.	A22	B7	C7
Meet and develop scanning techniques, to make a diagnosis and prognosis, and plan deseñar orthosis treatment of lower extremity pathology. Skeletal muscle injury and ligament. Pathology of the forefoot and hindfoot. Congenital deformities. Neurological injuries. Amputations. Asymmetries.	A22	B7	C7



Contents	
Topic	Sub-topic
1. Fundament Digital Orthotics	a) Introduction to digital orthotics. b) Current frame digital orthotics.
2. Materials needed for a development of orthoses.	a) Silicone. b) Catalyst. c) Additives or fillers. d) Auxiliary materials and accessories.
3. Making silicone orthoses.	a) Preparation: considerations. b) Protocol. c) Recommendations and rules of use for the patient. d) Handling and working times. e) Evaluation of Silicone orthotics. f) Failures in Silicone orthotics.
4. Therapeutic elements Silicone orthotics.	a) Description of elements comprising silicone orthoses. b) Frequent digital orthotics.
5. Therapeutic Application of Digital Orthotics	a) Biomechanical effect. b) Therapeutic Application.
6. Nail Orthotics.	a) Introduction to the nail orthotics. b) Development of the nail orthotics. c) Therapeutic Application.
7 Introduction to therapy shoes.	a) Parts shoe: sole and cut. b) Lasts footwear.
8. Therapeutic devices in the Shoes.	a) External modifications: heels, wedges, increases. b) Set the shoe. Gradation chart and numbering systems.
9. Properties footwear according to different population groups.	a) Conventional footwear for adults. b) Children conventional shoes. c) domestic footwear. d) Work Shoes. e) Special Shoes for orthotics. f) Child Special footwear. g) Special shoes for deformed feet or geriatric / peripheral vascular disease. h) Postoperative shoes.
10. Types of shoes.	a) Bootie or shoe salon. b) Moccasin. c) Derby or Oxford dress shoe. d) Boots. Booties. e) Slippers, slippers and sandals.
11. Accessories and footwear.	a) With and without compression socks. b) Stockings, Pantyhose and graduations. c) Ankles with and without stabilization. d) Pinkis.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Mixed objective/subjective test	A22 B7 C7	2	141	143
Personalized attention		7	0	7

(\*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.



## Methodologies

Methodologies	Description
Mixed objective/subjective test	Exam with 30 questions and 3 short objective test questions. The review will include questions related to the contents developed in both keynote sessions, and seminars and labs.

## Personalized attention

Methodologies	Description
Mixed objective/subjective test	<p>The personalized service will run on a scheduled basis in times of teacher attention to students, to face service; and virtually, through email and other electronic means to enable the virtual platform.</p> <p>The personalized service is designed to solve any issue related to the different methodologies and / or contents of the subject</p>

## Assessment

Methodologies	Competencies	Description	Qualification
Mixed objective/subjective test	A22 B7 C7	On the written test score information in the questions provided.	100

## Assessment comments



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<b>Complementary</b>	<ul style="list-style-type: none"><li>- Kirby, K. A. (2000). Biomechanics of the normal and abnormal foot. . JAPMA, 90 (1), 30-35.</li><li>- Williams A, Nester C (2010). The pocket podiatry guide: footwear and foot orthoses.. London: Chuchill Livingstone Elsevier</li><li>- Kirby K. (2009). Foot and lower extremities biomechanics III. Precision intricast newsletters, 2002-2008.. Arizona: Precision Intricast Inc</li><li>- Kirby K. (2003). Foot and lower extremities biomechanics II. Precision intricast newsletters, 1997-2002.. Arizona: Precision Intricast Inc</li><li>- Kirby K. (1998). Foot and lower extremities biomechanics: A ten year collection of precision intricast newsletters.. Arizona: Precision Intricast Inc</li></ul>
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## Recommendations

### Subjects that it is recommended to have taken before

Specific Anatomy of the Lower Limb [extinct]/750G02002  
General Podiatry [extinct]/750G02012  
Biomechanics of the Lower Limb [extinct]/750G02013  
Preventive Podiatry [to extinguish]/750G02015  
Podiatric Orthopedics 1 [extinct]/750G02017  
Podiatric Orthopedics 2 [extinct]/750G02018  
Podiatric Orthopedics 3 [to extinguish]/750G02019  
Podiatric Pathology 1 [extinct]/750G02021

### Subjects that are recommended to be taken simultaneously

Podiatric Pathology 2 [to extinguish]/750G02022  
Physical Podiatry [to extinguish]/750G02023  
Practicum 1 [to extinguish]/750G02033

### Subjects that continue the syllabus

Sports Podiatry [to extinguish]/750G02025  
Diabetic Foot [to extinguish]/750G02031  
Practicum 2 [to extinguish]/750G02034  
Practicum 3 [to extinguish]/750G02035

### Other comments

Para o seguemento das diferentes metodoloxías na aula da materia recoméndase a utilización dun ordenador portátil que dispoña de conexión wifi. Asemade, ca finalidade de conquistar unha contorna inmediata sustentable e cumprir o obxectivo estratéxico; do Plan de Sustentabilidade Medio-ambiental Green Campus FEP, tódolos traballos documentais que se realicen nesta materia serán entregados a través de Moodle, en formato dixital, sen necesidade de imprimilos. De realizarse en papel teranse en conta as seguintes cuestións que aparecen a continuación:- Non se empregarán plásticos.- Realizaráanse impresións a dobre cara.- Empregarase papel reciclado.- Evitaranse imprimir borradores.

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.