



## Teaching Guide

Identifying Data					2019/20
Subject (*)	Podiatric Surgery 2		Code	750G02030	
Study programme	Grao en Podoloxía				
Descriptors					
Cycle	Period	Year	Type	Credits	
Graduate	2nd four-month period	Third	Obligatory	6	
Language	SpanishGalicianEnglish				
Teaching method	Face-to-face				
Prerequisites					
Department	Ciencias da Saúde				
Coordinador	Mosquera Fernandez, Abian	E-mail	abian.mosquera.fernandez@udc.es		
Lecturers		E-mail			
Web	moodle.udc.es				
General description	Podiatric Surgery 2 combines during the 2nd semester of 3rd year classroom theory and practice with the overall objective of bringing the student in the conceptual framework of the most common techniques in podiatric surgery and its indications. The subject aims to give the student a methodology to establish an accurate diagnosis and prognosis and the recognition of complications in applying surgical procedures. of its own discipline. From a practical point of view this course aims to develop basic skills.				

## Study programme competences / results

Code	Study programme competences / results
A33	Coñecer e obter habilidades na aplicación das técnicas podolóxicas de cirurxía ungueal, de cirurxía podolóxica de partes brandas, de cirurxía ósea e articular do pé.
B1	Aprender a aprender.
B3	Aplicar un pensamento crítico, lóxico e creativo.
B5	Traballar de forma colaborativa.
B6	Comportarse con ética e responsabilidade social como cidadán e como profesional.
B8	Coñecer e apreciar a diversidade e a multiculturalidade.
B9	Fomento dunha segunda lingua de interese para a profesión.
B13	Traballo en equipo de carácter interdisciplinar.
B17	Capacidade de motivarse e motivar a outros.
B19	Capacidade de aplicar os coñecementos na práctica.
C1	Expresarse correctamente, tanto de forma oral coma escrita, nas linguas oficiais da comunidade autónoma.
C2	Dominar a expresión e a comprensión de forma oral e escrita dun idioma estranxeiro.
C3	Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.
C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.

## Learning outcomes

Learning outcomes	Study programme competences / results		
To know the indications and the methodology of application podiatric osteoarticular surgery techniques in the foot.	A33	B1 B3 B5 B6 B17 B19	C1 C2 C6



To know scanning and diagnosis techniques and treatment of tumors in the foot.		B1 B3 B5 B6 B13 B19	C1 C3 C6
To know, to assess and to apply the preoperative protocol and the informed consent.		B1 B3 B6 B8 B9 B17 B19	C1 C3 C6
Mastering the expression and understanding orally and writing in a foreign language.			C2
To express oneself properly both in an oral and written way in the official languages of the Autonomous Region.			C1
Coñecer e obter habilidades na aplicación das técnicas podolóxicas de cirurxía ungueal, de cirurxía podolóxica de partes brandas, de cirurxía ósea e articular do pé.	A33		
O alumno identifica e diagnostica o nivel de risco dun pé patolóxico, adquire habilidade no manexo das técnicas de estudo e valoración do pé. É capaz de desenvolver o conxunto de tratamentos podolóxicos de acordo ao nivel de risco presente no pé e en correlación co equipo multidisciplinar	A33		

Contents	
Topic	Sub-topic
UNIT 1: Introduction to osteoarticular forefoot surgery	LECTURE 1. Basic concepts and considerations in bone surgery
UNIT 2: Bony tumors	LECTURE 2: Etiology and surgical approach of subungueal exostosis
	LECTURE 3: Etiology and surgical approach of the osteochondroma
UNIT 3: Digital alterations	LECTURE 4. Etiology of the digital deformity
	LECTURE 5. Surgical treatment of digital deformities, digital-metatarsal



UNIT 4: Hallux abductus valgus	LECTURE 6. Pathophysiology of hallux abductus valgus deformity  LECTURE 7. Preoperative evaluation  LECTURE 8. Radiology  LECTURE 9. Anesthesia  LECTURE 10. Anatomic dissection of the first metatarsophalangeal joint  LECTURE 11. Distal procedures  LECTURE 12. Diaphyseal procedures  LECTURE 13. Proximal procedures  LECTURE 14. Phalangeal procedures  LECTURE 15. Soft tissue procedures  LECTURE 16. Arthrodesis of the first metatarsophalangeal joint  LECTURE 17. Cuneo-metatarsal arthrodesis  LECTURE 18. Arthroplasties
UNIT 5: Surgical treatment of hallux rigidus	LECTURE 19. Implants and hemi-implants for the first metatarsophalangeal joint
UNIT 6: Postoperative complications in forefoot surgery	LECTURE 20. Infection, complications in bone and soft tissue procedures
UNIT 7: Plantar fasciitis	LECTURE 21. Etiology and surgical approach
UNIT 8: Flat foot and cavus foot	LECTURE 22. Etiology and surgical approach
UNIT 9: Arthroscopy of the foot and ankle	LECTURE 23. Introduction to arthroscopy. Main indications and contraindications
UNIT 10: Surgery of congenital anomalies and neuromas	LECTURE 24. Etiology and surgical approach

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student's personal work hours	Total hours
Guest lecture / keynote speech	B5 B6 B8 B9 B13 B19 C1 C2 C3 C6	20	27	47
Laboratory practice	B5 B6 B8 B9 B19 C1	9	10	19
Seminar	B1	12	15	27
Supervised projects	B3 B5 B8	3	17	20
Objective test	A33 B17	2	34	36
Personalized attention		1	0	1

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

Methodologies	
Methodologies	Description



Guest lecture / keynote speech	<p>Lectures will be developed in an expositive-participative way with important audiovisual resources.</p> <p>During keynote sessions the student will deal with English vocabulary and lecture 2 will be taught in this language.</p> <p>Through moodle website (<a href="https://campusvirtual.udc.es/moodle/">https://campusvirtual.udc.es/moodle/</a>) the student will have additional resources available to support course topics as well as to work in and out of the classroom. The teacher will also be able to deliver additional material on the website <a href="http://www.foroactua.com">www.foroactua.com</a></p> <p>NOTE:</p> <p>According to UDC regulations (<a href="http://www.udc.es/comunicacion/novas/2012/05/nota_prensa_20120529.html">http://www.udc.es/comunicacion/novas/2012/05/nota_prensa_20120529.html</a>), students with part-time enrollment have a prior right to choose turn when there are two or more groups with different schedules in a given subject and a flexible system of class attendance.</p>
Laboratory practice	<p>Assistance to the practices of laboratory is compulsory in his whole and his general aim is that the student/to develop some basic skills in the handle of the surgical instruments and know the protocol prequirúrgico of the University Clinic of Podiatry of the UDC.</p> <p>The absence to said practices only will be justified in the case to produce any of the following causes, properly accredited (with justificante with date of the same day of the absence that will owe to be delivered before past 10 days of the absence to the professor of the matter), illness or injury that incapacitate for the realisation of the practice, demise of a familiar until the second degree, citación judicial that coincide with the date of the practice, assistance to a session of the Claustro or of the Council of Government of the UDC that coincide with the date of the practice, the/the student will have right to not to recover it until a maximum of 5 practices, a greater number of faults justified or the existence of faults injustificadas can suppose the suspense of the matter.</p> <p>To end to allow the complementary training of the student inside the same also will be able to recognise like such practices the assistance to activities of importance and interest for the degree. Of the participation in such activities will owe to deliver the certificate of assistance before they happen 10 days from his celebration and communicating the intention to assist with at least 10 days ahead. Between these activities of which can recognise a maximum of 3 absences to practices of laboratory are:</p> <ul style="list-style-type: none"><li>-national Congress of Podiatry</li><li>-Galician Days of Podiatry</li><li>-International Congresses of Podiatry</li><li>-Congress of students of Podiatry</li><li>-Days Laboralia</li><li>-Other activities that can be valued by the professor of the matter</li></ul> <p>The student will have to assist to the practice of laboratory incorporating to the group that has been him assigned. It will realise control of assistance in which the student must sign to the start of the practice. The signature is the guarantee of the assistance of the student/to to the practice by what the absence of this will be able to understand like a fault to the practice of laboratory. Any fault justified has to to document properly with the cause and dates of the day and deliver to the professor of the matter before past 10 days from the absence. Punctuality to practices is of forced fulfillment by what the faults reiterated of punctuality will be penalised and can suppose the suspense of the matter.</p> <p>NOTICE: It is mandatory for students to attend lab practice wearing a white gown or white pijama, pen and notebook.</p>



Seminar	<p>In the seminars will work specific appearances of the temario by means of the development of activities in groups that will serve to deepen in the contents of the matter. It will work besides with texts in English and Spanish indistinctly. The work realised in each one of the seminars will reflect with the delivery and exhibition of an individual activity or in group whose guidelines will give to the start of the matter.</p> <p>The assistance to the seminars and the realisation of the marked activities by the professor are compulsory in his whole and can not recover or substitute by another activity of the matter being necessary to reach the half of the total punctuation allocated to the seminars to surpass the matter. In case of not to attain it, in the announcement of July the student/to will have to answer to 20 ask type test related with the different thematic tackled in the seminars of the matter.</p> <p>The absence to the seminars only will be justified in the case to produce any of the following causes, properly accredited (with justificante with date of the same day of the absence that will owe to be delivered before past 10 days of the absence), illness or injury that incapacitate for the realisation of the practice, demise of a familiar until the second degree, citación judicial that coincide with the date of the seminar, assistance to a session of the Claustro or of the Council of Government of the UDC that coincide with the date of the practice, the/the student will have right to not to recover it until a maximum of 3 absences, a greater number of faults justified or the existence of faults injustificadas can suppose the suspense of the matter.</p> <p>All the alumnado has to assist to the seminars incorporating to the group that has been him assigned.</p> <p>They will exist leaves of control of assistance in which the student/to has to to sign. The signature is the guarantee of the assistance of the student/to to the seminar by what the absence of this will be able to understand like a fault. Any fault justified has to to document properly with the cause and dates of the day and deliver to the responsible professor of the matter. The puntualidad in the assistance is of forced fulfillment by what will register the delays. The faults of puntualidad will be penalised being able to arrive to suppose the suspense of the matter.</p>
Supervised projects	<p>The student will be required to perform and exposed in the classroom one mandatory groupal supervised project related to any of the topics of the syllabus. The guidelines for its implementation and the delivery date and exposure will be detailed at the beginning of the academic year and posted on the virtual platform of the UDC. In its development and/or exposure the use of English language will be assessed.</p> <p>In qualifying each of the students who make up the group of tutored work will be considered: Understanding the topic, scientific rigor, synthesis and critical, adaptation and updating of the literature, clarity of presentation and adjusted to presentation time.</p> <p>The no realisation of the work tutelado can suppose the suspense of the matter. In this case the student will have to answer in the announcement of July to 20 ask type test related with the thematic of the work tutelado that has been him assigned.</p>
Objective test	<p>It will realise an objective proof of 50 ask type test in date approved and published in academic calendar.</p> <p>This proof will be able to include questions related with the contents treated in the sessions magistrales, with clinical cases seen in the classroom, with the practices of laboratory, with the seminars and with those subjects of interest that the professor indicate and that they will have to be worked by the alumnado. The day of his realisation will facilitate the relative information to the punctuation of the questions. It is necessary to obtain at least 5 points of 10 possible to surpass the objective proof.</p> <p>To the half of the cuatrimestre in date that will be notified to the students and published with sufficient antelación will realise an individual partial proof of the contents of the matter and of those appearances that indicate the professor that have been tackled until this moment and that has by object value the capacity of reasoning, creativity and critical spirit of the student. This partial proof will consist of 20 ask type test, forms part of the objective proof and will have character liberatorio so that if it is surpassed the student will not have to go back to examine of the contents evaluated in the announcement of May.</p> <p>It is necessary to obtain at least 5 points of 10 possible to surpass the partial proof. The guidelines for his realisation will give the day of the presentation of the matter.</p>

### Personalized attention

Methodologies	Description
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Seminar Guest lecture / keynote speech Laboratory practice Supervised projects	Personalized attention described in relation to these methodologies is conceived as working moments with the teacher in person or in a virtual way. The way and moment of developing personalized attention for each activity will be shown throughout the course according to the instructional strategy of the subject.
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Assessment			
Methodologies	Competencies / Results	Description	Qualification
Seminar	B1	<p>The realisation and exhibition in the classroom of the activities related with the seminars are compulsory in his whole and can not recover or substitute by another activity of the matter. It is necessary to obtain at least a punctuation of 5 on 10 possible in his realisation and exhibition.</p> <p>In the qualification of the seminars will consider : Understanding of the subject treated, scientific rigour, capacity of synthesis and of criticism, adecuación and update of the bibliography consulted, clarity in the exhibition and adjust to the time of presentation.</p> <p>The guidelines for his realisation and exhibition will give the day of presentation of the matter and will announce in the virtual platform of the UDC.</p> <p>The assistance to the seminars and the realisation of the marked activities by the professor are compulsory in his whole and can not recover or substitute by another activity of the matter being necessary to reach the half of the total punctuation allocated to the seminars to surpass the matter. In case of not assisting to the seminars or not attaining the minimum punctuation required, in the announcement of July the student/to will have to answer to 30 ask type test related with the different thematic tackled in the seminars of the matter.</p>	10
Guest lecture / keynote speech	B5 B6 B8 B9 B13 B19 C1 C2 C3 C6	The active and judicious participation that denotes knowledge and monitoring of the theoretical body of the subject in the lectures will be rated with 1.5 points provided that, according to the teacher's criteria, a correct and scientifically based participation is obtained in the periodic controls that are perform in the classroom.	15
Laboratory practice	B5 B6 B8 B9 B19 C1	<p>Assistance to the practices of laboratory is compulsory in his whole (control of assistance) to surpass the matter.</p> <p>The 2 last days of the practical program allocate to the realisation of a theoretical proof-practical in which it has to obtain at least a punctuation of 5 on 10 possible points.</p> <p>The guidelines for the realisation of this theoretical proof-practical will give the day of presentation of the matter.</p>	5



Supervised projects	B3 B5 B8	<p>A supervised project will be held in the classroom and set out a mandatory supervised group work related to one of the paragraphs of the agenda. The guidelines for its development will be given at the beginning of the course and announced in the virtual platform of the UDC. In his presentation and/or exposure the student will be required to use English language.</p> <p>In qualifying the protected work shall be considered: Understanding the topic, scientific rigor, synthesis and critical and adequacy of the literature.</p> <p>It is necessary to obtain at least a score of 5 out of 10 possible in its implementation and/or exposure.</p> <p>The no realisation of the work tutelado can suppose the suspense of the matter. In this case the student will have to answer in the announcement of July to 20 ask type test related with the thematic of the work tutelado that has been him assigned.</p>	10
Objective test	A33 B17	<p>It will realise an objective proof of 80 ask type test</p> <p>This proof will be able to include questions related with the contents treated in the sessions magistrales, with clinical cases seen in the classroom, with the practices of laboratory, with the seminars and with those subjects of interest that the professor indicate and that they will have to be worked by the alumnado. The day of his realisation will facilitate the relative information to the punctuation of the questions. It is necessary to obtain at least 5 points of 10 possible to surpass the objective proof.</p> <p>To the half of the cuatrimestre in date that will be notified to the students and published with sufficient antelación will realise an individual partial proof of the contents of the matter and of those appearances that indicate the professor that have been tackled until this moment and that has by object value the capacity of reasoning, creativity and critical spirit of the student. This partial proof will consist of 30 ask type test, forms part of the objective proof and will have character liberatorio so that if it is surpassed the student will not have to go back to examine of the contents evaluated in the announcement of May.</p> <p>It is necessary to obtain at least 5 points of 10 possible to surpass the partial proof.</p> <p>The guidelines for his realisation will give the day of the presentation of the matter.</p>	60

Assessment comments



To surpass

the matter is necessary:

Attain the

half of the punctuation in each one of the methodologies that compute in the evaluation and that they are of compulsory realisation. Besides it is necessary to assist to the whole of the practices of laboratory and realise and expose the activities related with the seminars and with the works tutelados. In case of not reaching the minimum note in the seminars during the academic course the student will have to present in the announcement of July all the tasks realised in the same during the academic course to attain at most the minimum punctuation of these.

Announcements

of second and back matrículas: For those students/ace that have cursado at least once the matter and realised the compulsory practices of complete form with the qualification of apt owe to take into account that they can go back to cursar all the matter again or present only to a theoretical examination end taking into account that the qualification of the examination will suppose 100% of the qualification of the matter.

The students

with matrícula partial: they will be able to obtain the qualification of the asignatura with the ordinary modality or modality in which the objective proof supposes 80% of the qualification and the another 20% a practical examination that will realise the same day of the objective proof when finalising the same. In this modality will be compulsory to surpass both parts to surpass the asignatura.

Announcements

of the opportunity advanced of evaluation: Those students/ace that have requested the opportunity advanced of evaluation, fulfil with the requirements and concede him will be able to present to the objective proof whose qualification will suppose 100% of the qualification of the matter.

The

qualification of no presented: it will award to those students that do not present to the examination neither to any of the practices.

The

conditions for the obtaining of one enrolls of honour are that the student obtain more than 90% of the qualification of the asignatura, was the best qualification of the class in the opportunity evaluated and his contribution in the seminars-workshops and practical have been significant.

NOTE: they

will not attend claims related with the punctuations obtained in the different proofs by email or any another half no face-to-face.

NOTE: No claims related to scores or grades on the tests will be attended by email or any other non-face medium.





<b>Basic</b>	1. Banks AS. Mc Glamry's comprehensive textbook of foot and ankle surgery. 3ª ed. Philadelphia: Lippincott-Williams & Wilkins; 2001. 2. Chang TJ. Técnicas en cirugía ortopédica. Pie y tobillo. Madrid: Marban; 2006.3. Gerbert J. Textbook of bunion surgery. 3ª ed. Philadelphia: WB Saunders company; 2001. 4. Hetherington VJ. Hallux valgus and forefoot surgery. New York: Churchill Livingstone; 1994. 5. Izquierdo Cases JO. Podología Quirúrgica. Madrid: Elsevier; 2006. 6. Mercado OA. Atlas de cirugía del pie. Madrid: Federación española de podólogos; 1995.7. Kelikian AS. Sarrafian's anatomy of the foot and ankle. 3ª ed. Philadelphia: Lippincott-Williams&Wilkins; 2011. 8. García Carmona FJ. Patología y cirugía ungueal. Barcelona: Ediciones Mayo; 2008.9. Guía práctica de protocolos quirúrgicos en Podología. Comisión de formación del Consejo General de Colegios Oficiales de Podólogos; 2009.10. Fernández Mallo O. Manual para personal del bloque quirúrgico. 2ª ed. Complejo Hospitalario Universitario A Coruña; 2009.
<b>Complementary</b>	1. Coughlin MJ. Pie y tobillo. Madrid: Marban; 2011. 2. Johnson KA. Pie y tobillo. Madrid: Marban; 1998.3. Kelikian AS. Tratamiento quirúrgico de pie y tobillo. Madrid: McGraw-Hill Interamericana; 2001. 4. Barouk LS. Reconstrucción del antepie. 2ª ed. Bordeaux: Amolca; 2008. 5. Nunley JA. Advanced reconstruction. Foot and ankle. 2ª ed. Rosemont: American Academy of Orthopaedic Surgeons; 2007.6. Pfeffer GB. Foot and ankle surgery. Operative techniques. Philadelphia: Saunders Elsevier; 2010.

## Recommendations

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

Specific Anatomy of the Lower Limb/750G02002

Biomechanics of the Lower Limb/750G02013

Podiatric Pathology 1/750G02021

Podiatric Pathology 2/750G02022

Chiropody 1/750G02027

Chiropody 2/750G02028

### Subjects that are recommended to be taken simultaneously

Podiatric Surgery 1/750G02029

### Subjects that continue the syllabus

Practicum 1/750G02033

Practicum 2/750G02034

Practicum 3/750G02035

### Other comments



To

help achieve an immediate sustainable environment and meet the objective of action number 5: "Healthy and sustainable environmental and social teaching and research" of the "Green Campus Ferrol Action Plan":-The delivery of the documentary works that are made in this matter will preferably be done electronically in digital format without the need to print them.-In

the case of being made on paper: no plastics will be used, double-sided prints will be made, recycled paper will be used and the printing of drafts will be avoided. A

sustainable use of resources and the prevention of negative impacts on the natural environment must be made taking into account the importance of ethical principles related to the values ??of sustainability in personal and professional behavior.The

full integration of the students will be facilitated that for physical, sensorial, psychic or sociocultural reasons, experience difficulties to a suitable, equal and profitable access to the university life.In

the realization of the work of the subject, the plagiarism and the use of non-original material, including that obtained through the Internet, without express indication of its origin and, if it is the case, the

permission of its author, will be qualified with suspense (0,0) in the activity. All of this without prejudice to the disciplinary responsibilities that may arise after the corresponding procedure.It

is advisable to have knowledge of English: In all the methodologies of the subject will work with vocabulary in English and topic 2 (didactic unit 2) will be taught in this language and in it students must use

English either orally or in writing . In addition, the use of this language in the realization and exhibition of the supervised work will be valued.

(\* )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.