

		Teaching Gu	ide				
	ldentifying	Data			2023/24		
Subject (*)	MANUAL AND OSTHEOPATHIC PHYSIOTHERAPY I Code			651G01014			
Study programme	Grao en Fisioterapia						
		Descriptors	S				
Cycle	Period	Year		Туре	Credits		
Graduate	1st four-month period	Second		Obligatory	6		
Language	SpanishGalician						
Teaching method	Face-to-face						
Prerequisites							
Department	Fisioterapia, Medicina e Ciencias E	Biomédicas					
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Web							
General description	In this subject, specific contents of	the field of Physio	therapy are col	llected in order for stud	lents to acquire an eclectic vision		
	of the various methods and technic	ques for diagnosis	and therapeuti	cs proposed by various	s schools and authors in the field		
	of manual therapies.						
	Manual therapies as a whole, including osteopathy, constitute a wide collection of clinical intervention procedures aimed at						
	the detection and treatment of biomechanical alterations that affect the musculoskeletal system and in which the greatest						
	symptom is pain.						
	The paradigm that frames these procedures is articulated around a holistic view of bodily function, in the existence of a						
	mutual relationship between body structure and function mediated by the central nervous system, and in the interpretation						
	of back pain within a biopsychosocial model.						
	The student must know the theoretical foundations of The student must know the theoretical foundations of the different						
	methods and techniques and their field of application in the clinic, in addition to acquiring the psychomotor skills necessary						
	to execute, with professional precis	execute, with professional precision, the manual interventions necessary to be able to effectively test this modality of					
	therapy. It must effectively manage	the process of ev	aluation and fu	nctional diagnosis that	t precedes manipulative therapy,		
	therapeutic methods, its scientific and neurophysiological foundation, the phases of execution and application of						
	manipulations in all its variants, mastering a number of selected techniques that allow it to address most of the disorders of						
	the musculoskeletal system that are likely to benefit from this therapeutic modality.						

	Study programme competences / results
Code	Study programme competences / results
A1	Coñecer e comprender a morfoloxía, a fisioloxía, a patoloxía e a conduta das persoas, tanto sas como enfermas, no medio natural e
	social.
A2	Coñecer e comprender as ciencias, os modelos, as técnicas e os instrumentos sobre os que se fundamenta, articula e desenvolve a
	fisioterapia.
A3	Coñecer e comprender os métodos, procedementos e actuacións fisioterapéuticas, encamiñados tanto á terapéutica propiamente dita a
	aplicar na clínica para a reeducación ou recuperación funcional, como á realización de actividades dirixidas á promoción e mantemento
	da saúde.
A5	Valorar o estado funcional do paciente, considerando os aspectos físicos, psicolóxicos e sociais.
A6	Valoración diagnóstica de coidados de fisioterapia segundo as normas e cos instrumentos de validación recoñecidos internacionalmente.
A7	Deseñar o plan de intervención de fisioterapia atendendo a criterios de adecuación, validez e eficiencia.
A8	Executar, dirixir e coordinar o plan de intervención de fisioterapia, utilizando as ferramentas terapéuticas propias e atendendo á
	individualidade do usuario.
A9	Avaliar a evolución dos resultados obtidos co tratamento en relación cos obxectivos marcados.
A10	Elaborar o informe de alta dos coidados de fisioterapia unha vez cubertos os obxectivos propostos.



A11	Proporcionar unha atención de fisioterapia eficaz, outorgando unha asistencia integral aos pacientes.
A12	Intervir nos ámbitos de promoción, prevención, protección e recuperación da saúde.
A13	Saber traballar en equipos profesionais como unidade básica na que se estruturan de forma uni ou multidisciplinar e interdisciplinar os
	profesionais e demais persoal das organizacións asistenciais.
A14	Incorporar os principios éticos e legais da profesión á práctica profesional así como integrar os aspectos sociais e comunitarios na toma
	de decisións.
A15	Participar na elaboración de protocolos asistenciais de fisioterapia baseada na evidencia científica, fomentando actividades profesionais
	que dinamicen a investigación en fisioterapia.
A16	Levar a cabo as intervencións fisioterapéuticas baseándose na atención integral da saúde que supón a cooperación multiprofesional, a
	integración dos procesos e a continuidade asistencial.
A17	Comprender a importancia de actualizar os coñecementos, habilidades, destrezas e actitudes que integran as competencias profesionais
	do fisioterapeuta.
A18	Adquirir habilidades de xestión clínica que inclúan o uso eficiente dos recursos sanitarios e desenvolver actividades de planificación,
	xestión e control nas unidades asistenciais onde se preste atención en fisioterapia e a súa relación con outros servizos sanitarios.
A19	Comunicarse de modo efectivo e claro, tanto de forma oral como escrita, cos usuarios do sistema sanitario así como con outros
	profesionais.
B1	CB1 - Que los estudiantes hayan demostrado poseer y comprender conocimientos en un área de estudio que parte de la base de la
	educación secundaria general, y se suele encontrar a un nivel que, si bien se apoya en libros de texto avanzados, incluye también
	algunos aspectos que implican conocimientos procedentes de la vanguardia de su campo de estudio
B2	CB2 - Que los estudiantes sepan aplicar sus conocimientos a su trabajo o vocación de una forma profesional y posean las competencias
	que suelen demostrarse por medio de la elaboración y defensa de argumentos y la resolución de problemas dentro de su área de estudio
B3	CB3 - Que los estudiantes tengan la capacidad de reunir e interpretar datos relevantes (normalmente dentro de su área de estudio) para
	emitir juicios que incluyan una reflexión sobre temas relevantes de índole social, científica o ética
B4	CB4 - Que los estudiantes puedan transmitir información, ideas, problemas y soluciones a un público tanto especializado como no
	especializado
B5	CB5 - Que los estudiantes hayan desarrollado aquellas habilidades de aprendizaje necesarias para emprender estudios posteriores con
	un alto grado de autonomía
C1	Adequate oral and written expression in the official languages.
C4	Acting as a respectful citizen according to democratic cultures and human rights and with a gender perspective.
C6	Acquiring skills for healthy lifestyles, and healthy habits and routines.
C8	Valuing the importance of research, innovation and technological development for the socioeconomic and cultural progress of society.
C9	Ability to manage times and resources: developing plans, prioritizing activities, identifying critical points, establishing goals and
	accomplishing them.

Learning outcomes			
Learning outcomes	Study programme competences /		
		results	
Be able to contextualize, criticize and integrate in a coherent way the different methods and schools of evaluation and manual	A2	B1	C4
therapy within the theoretical framework of Manual Physiotherapy.	A3	B2	C6
		B3	C8
		B4	
Be able to assess the functional status of the patient / user and determine the diagnosis of Physiotherapy, as well as the	A5	B3	C1
prognosis, based on clinical interrogation, the results obtained from physical examination tests and the study of	A6	B4	C9
complementary tests and reports.	A9	B5	
	A12		
	A13		
	A16		
	A19		



Be able to diagnose biomechanical dysfunctions, identifying the restriction parameters and tissues responsible for kinematic	A1	B3	C8
limitation.	A5	B4	
	A6		
	A7		
	A11		
Prescribe, design, direct and execute the Physiotherapy Intervention Plan through manual therapy, adapting the different	A3	B3	C8
therapeutic and / or preventive possibilities to the needs of each patient / user.	A8	B4	C9
	A9	B5	
	A11		
	A12		
	A13		
	A15		
	A16		
	A18		
Know how to capture the results of the history, physical examination, objectives, intervention plan, results and reevaluation,	A5	B3	C1
obtained during the clinical intervention in patients who are treated with manual therapies, in the History of Physiotherapy and /	A6	B5	C9
or in a report.	A9		
	A10		
	A14		
	A19		
Act within the limits of professional competence, knowing the indications and contraindications of manual therapy and	A11	B2	C4
prioritizing at all times the protection towards the patient / user.	A13	B5	
	A14		
	A15		
	A17		
	A18		
Incorporate into practice the ethical, legal and deontological principles of the profession.	A14	B2	C4
		B5	

	Contents
Торіс	Sub-topic
THEORETICAL PROGRAM:	1.1 Historical evolution of manual therapies and osteopathy.
	1.2 Conceptual analysis of manual therapies, osteopathy, chiropractic, Cyriax
TOPIC 1 Historical and conceptual study of manual	technique.
therapies and osteopathy.	1.3 Contributions of physiotherapy to manual therapies.
	1.4 Manipulative and osteopathic therapy as part of physiotherapy.
TOPIC 2 Biomechanical principles applied to manual therapy	2.1 Study of the relationship between body structure and function.
and osteopathy.	2.2 The static-dynamic balance of the body and its functional alteration.
	2.3 Global and analytical mobility of the spine and pelvis.
	2.4 Dysfunctions due to hiccups and joint hypermobility and adaptive functional
	responses.
TOPIC 3 Joint biomechanical dysfunctions.	3.1 Injury due to joint restriction. Features and types
	3.2 Theories of the injury mechanism. Neurophysiological and biomechanical study
	of joint dysfunctions.
	3.3 Scientific evidence of manipulative therapeutics.
	3.4 Objectives of manual therapy in root and pseudoradicular syndromes.



TOPIC 4 The exploration and diagnosis of biomechanical	4.1 The diagnosis and medical report.
dysfunctions of the musculoskeletal system.	4.2 Static and dynamic analysis of the body.
-,	4.3 Palpatory examination: static palpation and dynamic palpation.
	4.4 Biomechanical and kinetic tests.
	4.5 Orthopedic, neuro-orthopedic and other specific tests.
	4.6 Physiotherapeutic diagnosis: Causes of the signs and symptoms of functional
	alteration. Localization of the dysfunctional level and detection of injury parameters.
TOPIC 5 The art of manual and osteopathic therapy.	5.1 Structural handling techniques.
	5.2 Functional handling techniques.
	5.3 Basic principles and general mode of execution of each technique.
	5.4 Indications and contraindications of therapeutic techniques.
	5.5 Possible iatrogenic effects of manual and osteopathic therapy.
TOPIC 6 Manual therapy in the pelvis and hip.	6.1Pelvic and coxofemoral painful syndromes of functional origin.
	6.2 Clinical biomechanics of the pelvis and coxofemoral joint.
	6.3 Exploration and functional assessment of the joints:
	6.3.1- Sacroiliac.
	6.3.2 Coccígeas.
	6.3.3 Coxofermorals.
	6.4 Types of functional lesions and their diagnosis.
	6.5 Treatment: soft tissue techniques, articulatory techniques, structural and
	functional techniques.
TOPIC 7 Manual therapy in the lumbar spine.	7.1 Painful syndromes of the lumbar spine of functional origin.
	7.2 Clinical biomechanics of the lumbar spine.
	7.3 Exploration and functional assessment of the interapophyseal joints and the
	intervertebral disc.
	7.4 Types of functional lesions and their diagnosis. Disc injuries at the lumbar level.
	7.5 Treatment of pseudoradicular syndromes: soft tissue techniques, articulatory
	techniques, structural and functional manipulations.
	7.6 Treatment of painful syndromes of disc origin with and without root involvement.
TOPIC 8 Manual therapy in the dorsal spine and ribs.	8.1 Painful syndromes of the dorsal spine.
	8.2 Clinical biomechanics of the dorsal spine and cost-transverse joints.
	8.3 Exploration and functional assessment of the joints: interapophyseal and
	cost-transverse.
	8.4 Types of functional lesions and their diagnosis.
	8.5 Treatment of pseudoradicular painful syndromes: soft tissue techniques,
	articulatory techniques, structural and functional manipulations.
TOPIC 9 Manual therapy in the cervical spine.	9.1 Painful cervico-cranial syndromes.
	9.2 Clinical biomechanics of the cervical spine and occipito-atloid joints.
	9.3 Exploration and functional assessment of the interapophyseal, odonto-atloid,
	occipito-atloid joints and intervertebral discs.
	9.4 Test of the vertebral artery.
	9.5 Types of functional lesions and their diagnosis. Disc lesions at the cervical level.
	9.6 Treatment of pseudoradicular painful syndromes: soft tissue techniques,
	articulatory techniques, structural and functional manipulations.
	9.7 Treatment of painful syndromes of disc origin with and without root involvement.
	9.8 Specific contraindications of manual therapy in the cervical spine.



TOPIC 10 Manual therapy in the shoulder girdle and	10.1 Dysfunctional syndromes of the shoulder girdle and shoulder.
shoulder.	10.2 Clinical biomechanics of the shoulder girdle and shoulder.
	10.3 Exploration and functional assessment of the joints: Sternoclavicular,
	acromioclavicular, subdeltoid, scapulothoracic, glenohumeral.
	10.4 Types of functional lesions and their diagnosis.
	10.5 Treatment of functional injuries: soft tissue techniques, articulatory techniques,
	structural and functional manipulations.
PRACTICAL PROGRAM: PRACTICAL	1.1 Muscle techniques
	1.1.1 T. of Strengthening
MODULE 1 General principles of the different therapeutic	1.1.2 T. of Stretching
methods and techniques used in manual therapy.	1.1.3 T. Isolytic
	1.1.4 T. of Inhibition
	1.2 Ligament techniques
	1.2.1 T. of Stretching
	1.2.2 T. of Pumping
	1.3 Articulatory techniques
	1.3.1 T. of Stretching
	1.3.2 T. Rhythmic
	1.3.3 T. Structural
	1.3.4 T. Functional
PRACTICAL MODULE 2 Manual therapy in the pelvis and	2.1 Introduction
coxofemoral joint	2.2 Static and dynamic examination
	2.3 Palpatory examination
	2.4 Mobility tests
	2.5 Orthopaedic tests
	2.6 Soft tissue assessment and techniques
	2.7 Articulatory techniques
	2.8 Impulse manipulation
PRACTICAL MODULE 3 Manual therapy in the lumbar and	3.1 Introduction
dorsal spine	3.2 Static and dynamic examination
	3.3 Palpatory examination
	3.4 Mobility tests
	3.5 Orthopaedic tests
	3.6 Assessment and techniques of soft parts
	3.7 Articulatory techniques
	3.8 Impulse manipulation
PRACTICAL MODULE 4 Manual therapy in the cervical	4.1 Introduction
spine.	4.2 Static and dynamic examination
	4.3 Palpatory examination
	4.4 Mobility tests
	4.5 Orthopaedic tests
	4.6 Soft tissue assessment and techniques
	4.7 Articulatory techniques
	4.8 Impulse manipulation

Planning				
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	



7 23	40
0 26	56
0 10	20
) 28	28
2 0	2
0	1
3 0	3
_	0 count the heterogeneity of the

(\*)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 /	Oral presentation complemented with the use of audiovisual media and the introduction of some questions aimed at students,
keynote speech	in order to transmit knowledge and facilitate learning.
	The master class is also known as a lecture", "expository method" or "master class". This last
	modality sounds reserved for a special type of lesson taught by a professor on special occasions, with a content that supposes
	an original elaboration and based on the almost exclusive use of the word as a means of transmitting information to the
	audience.
Laboratory practice	Methodology that allows students to learn effectively through the realization of activities of a practical nature, such as
	demonstrations, exercises, experiments and research.
Collaborative learning	Set of teaching-learning procedures guided in person and / or supported with information and communication technologies,
	which are based on the organization of the class in small groups in which the students work together in the resolution of tasks
	assigned by the teachers to optimize their own learning and that of the other members of the group.
Critical	The bibliographic review involves a process of critical reading of a book, an article, a thesis or a communication to a congress.
bibliographical	As such a process includes the reading of the work, the analysis of its content and a critique and evaluation of it in relation to
	the existing literature on the subject. A review does not suppose a summary of the work, nor a mere analysis of the content,
	because what gives it meaning and scientific academic dimension is the criticism it deserves in the opinion of the author of the
	review, in relation to the other known works of the same field or in relation to his own experience.
Mixed	Test that integrates questions type of essay tests and type questions of objective tests.
objective/subjective	As for essay questions, it collects open-ended development questions. In addition, as objective questions, you can combine
test	multiple-choice, sorting, short-answer, discrimination, completion, and/or association questions.
Practical test:	Test in which it is sought that the student develops totally or partially some practice that he had previously done during the
	practical classes. The practical test may previously include the resolution of a question/problem that results in the practical
	application of a certain technique or practice learned.

	Personalized attention
Methodologies	Description



Guest lecture /	As this is a theoretical-practical subject for second-year students, personalised attention is aimed at helping students to clarify
keynote speech	interrelated concepts, resolve doubts and acquire an integrated vision of this body of knowledge. In addition, it can be used to
Laboratory practice	explain practical skills, seeking integration with the theoretical contents. It also aims to help you in the search for and
Collaborative learning	interpretation of bibliographical sources.
	For the tutoring of this teaching methodology, three hours of personalised attention are established, distributed regularly
	throughout the course, in which questions of both a theoretical and practical nature can be resolved.
	The attention will be personalised, and also, when the professor considers it necessary, it can be carried out telematically,
	using email and the Teams platform, upon request by the student.

Mothodalarias	Compotencies	Decerintian	Qualification
Methodologies	Competencies / Results	Description	Qualification
Guest lecture /	A1 A2 A3 A5 A6 A7	Oral exposition complemented by the use of audiovisual media and the introduction of	5
keynote speech	A8 A9 A10 A11 A12	some questions addressed to the students, with the aim of transmitting knowledge and	
	A13 A14 A15 A16	facilitating learning.	
	A17 A18 A19 B1 B2	The master class is also known as "lecture", "expository	
	B3 B4 B5 C1 C4 C8	method" or "master class". The latter is usually reserved for a special	
	C9	type of lecture given by a teacher on special occasions, with a content that involves an	
		original elaboration and is based on the almost exclusive use of the spoken word as a	
		means of conveying information to the audience.	
		Regular class attendance as well as the attitudes and aptitudes shown in the classes	
		will be assessed on an ongoing basis, and will be awarded 5% of the total mark for the	
		subject.	
aboratory practice	A1 A3 A5 A6 A8 A9	Methodology that allows students to learn effectively through practical activities such	5
	A11 A12 A16 C6	as demonstrations, exercises, experiments and research.	
		Regular attendance at laboratory practicals as well as the attitudes and aptitudes	
		shown in them will be assessed on an ongoing basis, and will be awarded 5% of the	
		total mark for the subject.	
Collaborative learning	A1 A2 A3 A10 A19 C1	A set of teaching-learning procedures guided in person and/or supported by	5
	C4 C6	information and communication technologies, based on the organisation of the class in	
		small groups in which students work together to solve tasks assigned by the teacher	
		to optimise their own learning and that of the other members of the group.	
		The quality of the work proposed by the teacher and the attitudes and aptitudes shown	
		by the students in this task will be assessed as a percentage of 5% of the final mark	
		for the subject.	
Critical	A1 A2 A3 A10 A19 C1	The bibliographic review is a process of critical reading of a book, article, thesis or	5
bibliographical	C4 C6	conference paper. As such, it involves reading the work, analysing its content and	
		critiquing and evaluating it in relation to the existing literature on the subject. A review	
		is not a summary of the work, nor a mere analysis of the content, as what gives it	
		meaning and a scientific academic dimension is the critique it deserves in the opinion	
		of the author of the review, in relation to other known works in the same field or in	
		relation to his/her own experience.	
		The presentation of the reviews in due time and form, as well as their quality, will be	
		evaluated as a percentage of 5% of the final mark for the subject.	



Mixed	A1 A2 A3 A5 A6 A7	Test that integrates essay-type questions and objective test-type questions.	50
objective/subjective	A8 A9 A10 A11 A12 As for essay questions, it includes open-ended essay questions. In addition, as		
test	A13 A14 A15 A16	objective questions, it may combine multiple-choice, ordering, short answer,	
	A17 A19 B1 B2 B3 B4	discrimination, completion and/or association questions.	
	B5 C1 C4 C6 C9	In order to be included in the final mark for the assessment of the subject, and to be	
		eligible to pass it, a minimum of 4 points out of 10 must be obtained in the mixed test.	
		The grade for this test accounts for 50% of the final mark for the subject.	
Practical test:	A1 A3 A5 A6 A7 A8	A test in which the student is expected to develop totally or partially some practice that	30
	A9 A11 A12 A16 B2	he/she has previously done during the practical classes. The practical test may	
	B3	previously include the resolution of a question/problem that results in the practical	
		application of a particular technique or practice learned.	
		In order to be included in the final mark of the course evaluation, and to be able to	
		pass it, the student must obtain at least 4 points out of 10 in the practical test. The	
		grade for this test represents 30% of the final mark for the subject.	

## Assessment comments

The percentages assigned to each test may undergo slight modifications from one course to another depending on the needs of the subject; however, the value of the exam (theoretical and practical) will never be less than 70% of the final grade, and the value of the continuous assessment (attendance, supervised work, revisions, etc.) will never be more than 30%.

The final grade will be established in a range from "0" to "10". This mark will be made up of the sum of the partial marks obtained in each of the sections of the assessment, in the corresponding percentage, as indicated in the scheme set out above. A pass mark will be obtained when the final average mark is "5".

In order to calculate the aforementioned average, the student must obtain a minimum score of 4 out of 10 points in both the mixed test and the practical test. If it is lower than 4 out of 10 points, the resulting grade will automatically be a fail.

Due to the nature and competence profile of the subject, the possibility of academic dispensation exempting part-time students from attending practical classes is not contemplated.

Students who have the option of Honours, in order to be eligible, must submit a report on the course content (both theoretical and practical), prepared by themselves, within the established deadline. If the evaluation of the report is positive, they will achieve the aforementioned qualification. In the event that there are more candidates than available Honours, an order of priority will be established.

Fraudulent performance in the assessment tests or activities will directly imply a failing grade in the corresponding exam session, thus invalidating any grade obtained in all the assessment activities for the extraordinary exam session.

Sources of information



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	<ul> <li>Clayton P (2019). Disfunción de la articulación sacroilíaca y síndrome piriforme. Paidolibro (Ed.)</li> </ul>
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	Physiotherapy. Elsevier
Complementary	

	Recommendations
Subjects that it	is recommended to have taken before
ANATOMY I AND HISTOLOGY/651G01001	
ANATOMY II/651G01002	
PHISIOLOGY/651G01003	
GENERAL KINESIOTHERAPY/651G01005	
FUNCTIONAL AND PSYCHOSOCIAL ASSESSMENT/651G01	007



Subjects that are recommended to be taken simultaneously	
BIOMECHANICS/651G01009	
CLINICAL SEMIOLOGY/651G01010	
KINESIOTHERAPY: BASES OF THERAPEUTIC EXERCISE BASES/651G01013	
Subjects that continue the syllabus	
PHYSIOTHERAPY FOR STATIC AND DYNAMIC CONDITIONS IN THE VERTEBRAL COLUMN/651G01015	
MANUAL AND OSTHEOPATHIC PHYSIOTHERAPY II/651G01019	
PHYSIOTHERAPY FOR MUSCULOSKELETAL DISORDERS/651G01024	
Other comments	
Environmental	
considerations: with the aim of helping to achieve an immediate sustainable	
environment and comply with the strategic objectives of the Green Campus Plan	
of the Faculty of Physiotherapy, the documentary works carried out in this area	
can be requested both in paper and virtual format or computer support. If done	
on paper, the following general recommendations will be followed as far as	
possible:-	
Plastics will not be used	
Double-sided prints will be made	
Recycled paper will be used Drafts	
will be avoided.	

(\*)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.