		Teaching Guide			
	Identifying	Data			2022/23
Subject (*)	Advanced Cardiopulmonary Rehab	oilitation		Code	651516007
Study programme	Mestrado Universitario en Discapacidade e Dependencia (plan 2015)				
		Descriptors			
Cycle	Period	Year		Туре	Credits
Official Master's Degre	e 2nd four-month period	First		Optional	6
Language	SpanishGalician				·
Teaching method	Face-to-face				
Prerequisites					
Department	Fisioterapia, Medicina e Ciencias E	Biomédicas			
Coordinador	Gonzalez Doniz, Maria Luz	E-n	nail	luz.doniz@udc.	es
Lecturers	Crespo Leiro, María Generosa	E-n	nail	maria.generosa	.crespo.leiro@udc.es
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Web		'			
General description	The study of this subject pretends	that the student purchase	es advanc	ed knowledge and	shows an understanding of th
	theoretical and practical issues and of the methodology of work in the dysfunctions of the system cardiopulmonar.				

	Study programme competences
Code	Study programme competences
A10	CERF5. Ser capaz de integrar coñecementos avanzados no ámbito da disfunción cardiorrespiratoria
A11	CERF6. Capacidade para deseñar e executar proxectos de investigación nas disfuncións cardiorrespiratorias.
B2	CB7. Que os estudantes saiban aplicar os coñecementos adquiridos e a súa capacidade de resolución de problemas en ámbitos novos
	ou pouco coñecidos dentro de contextos máis amplos (ou multidisciplinares) relacionados coa súa área de estudo
B5	CB10. Que os estudantes posúan as habilidades de aprendizaxe que lles permitan continuar estudando dun modo que haberá de ser en
	boa medida autodirixido ou autónomo.
B7	CG2 Identificar, avaliar e resolver os problemas derivados da presenza de discapacidade e dependencia
В9	CG4 Ser capaz de intervir na problemática derivada da discapacidade e da dependencia
B10	CG5 Capacidade para integrar coñecementos científicos de carácter avanzado ligados ao ámbito da discapacidade e a dependencia
C6	CT6. Valorar críticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas aos que deben enfrontarse
C7	CT7. Ser capaz de valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance
	socioeconómico e cultural da sociedade?

Learning outcomes				
Learning outcomes			Study programme	
	competences			
Reach the acquisition of knowledges advanced and show an understanding of the theoretical and practical appearances and	AR10			
of the methodology of work in the dysfunctions of the system cardiopulmonar with a depth that arrive until the avant-garde of	AR11			
the knowledge				
Be able of predict and control the evolution of complex situations, realising a systematic approximation to the assessment and	AR11	BR2		
treatment of the problems of the complex cardiopulmonar by means of the development of methodologies of work adapted to		BR7		
said field of knowledge, in his scientific slopes/researcher and professional.		BR9		
		BR10		
Capacity of clinical reasoning applied to the diagnosis capacity that guarantee the taking of safe clinical decisions and based	AR10	BR2	CR6	
in the evidence, as well as the critical analysis of the existent therapeutic procedures for the handle of the patient with		BR7		
dysfunction cardiorrespiratoria		BR9		

Be able to evaluate and select the suitable scientific theory and the precise methodology to develop, implement and evaluate			CR7
the plans of attention and/or the guides of clinical practice in patients cardiorrespiratorios			
Have developed skills for the multidisciplinary work asistencial and/or of investigation in the dysfunction cardiorrespiratoria	AR11	BR2	

	Contents		
Topic	Sub-topic		
Module 1: I Handle advanced of the respiratory dysfunction	Bases of the respiratory pathophysiology and of the assessment of the respiratory		
	patient.		
	2. Integral and multidisciplinary attention of the respiratory patient (control of factors of		
	risk, nutritional support, pharmacology, physiotherapy, other therapeutic boardings).		
	3. Bases of treatment of the chronic pulmonary patient: programs of pulmonary		
	rehabilitation, guides of clinical practice and scientific evidence.		
	4. Bases of treatment of the neuromuscular patient: guides of clinical practice and		
	scientific evidence of the intervention fisioterápica.		
	5. Bases of treatment of the critical patient: guides of clinical practice and scientific		
	evidence of the intervention fisioterápica.		
	6. The disability in the respiratory patient. Evaluation of the quality of life.		
Module 2: I Handle advanced of the cardiovascular	Bases of the pathophysiology cardiovascualr and of the assessment of the		
dysfunction	cardiovascular patient.		
dystation	Integral and multidisciplinary attention of the cardiovascular patient: guides of		
	clinical practice and available scientific evidence.		
	3. Programs of cardiovascular rehabilitation: available scientific evidence.		
	4. The disability in the cardiovascular patient. Evaluation of the quality of life.		

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Critical bibliographical	B5 C6	0	30	30
Laboratory practice	B7 B9	2	0	2
Supervised projects	A10 A11 B5 B10 C6	6	60	66
Objective test	A10 B2 B7	1	6	7
Case study	A10 B2	0	2	2
Guest lecture / keynote speech	A10 A11 B2 B7 B9	24	15	39
	B10 C7			
Personalized attention		4	0	4

	Methodologies
Methodologies	Description
Critical	The bibliographic reviewing supposes a process of critical reading of a book, of an article, of a thesis or of a communication to
bibliographical	a congress. As such process comprises the reading of the work, the analysis of his content and a criticism and assessment of
	the same in relation to the existent literature on the subject. A reviewing does not suppose a summary of the work, neither a
	mere analysis of the content, as what awards him sense and scientific academic dimension is the criticism that deserves to
	trial of the author of the reviewing, in relation to other works known of the same field or in relation to his own experience.
Laboratory practice	Methodology that allows that the students learn sure enough through the realisation of activities of practical character, such
	like demonstrations, exercises, experiments and investigations.

Supervised projects	Methodology designed to promote the autonomous learning of the students, under the tutela of the professor and in stages
	varied (academic and professionals). It is referred prioritariamente to the learning of the "how do the things". It
	constitutes an option based in the assumption by the students of the responsibility by his own learning.
	This system of education bases in two basic elements: the independent learning of the students and the follow-up of this
	learning by the professor-tutor.
	Inglés
	Students in semi-attendance regime must attend three face-to-face classes related to supervised work:
	The first, during the presentation of the course, in which the framing of these students will be carried out and the topics and
	members of the supervised work groups will be defined and constituted.
	The second, in the middle of the semester, for the presentation of the results of the bibliographic search and the presentation
	of the structured draft of his work.
	The third, at the end of the semester, for the presentation and defense of group work.
Objective test	Written test used for learning assessment, whose distinctive outline is the possibility of determining whether or not the answers
	given are correct. It constitutes an instrument of measurement, rigorously elaborated, that allows evaluating knowledge,
	abilities, skills, performance, aptitudes, attitudes, intelligence, etc. It is applicable for both diagnostic, formative and summative
	evaluation. Multiple choice questions will be used.
Case study	Methodology where the subject faces the description of a specific situation that poses a problem that must be understood,
	valued and solved by a group of people, through a process of discussion. The student faces a specific problem (case), which
	describes a real situation in professional life, and must be able to analyze a series of facts, referring to a particular field of
	knowledge or action, to arrive at a reasoned decision through a process of discussion in small working groups.
Guest lecture /	Oral exhibition complemented with the use of audiovisual means and the introduction of some questions headed to the
keynote speech	students, with the purpose to transmit knowledges and facilitate the learning.
	The masterclass is also known as %or201Cconferencia%or201D, %or201Cmétodo expositivo%or201D or %or201Clección
	magistral%or201D. This last modality is used to reserve to a special type of lesson given by a professor in special occasions,
	with a content that supposes an original preparation and based in the almost exclusive use of the word like road of
	transmission of the information to the audience.
	During the session magistral will integrate of punctual way the methodologies of discussion directed and aprendizajo based in
	problems.
	In the case of semi-presential students, weekly help will be provided through the institutional platform Moodel, the help
	undertaken in the classroom, as well as the necessary resources for the development of the content addressed in person in
	the classroom.

Personalized attention	
Methodologies	Description

Objective test Supervised projects

Personalized attention will be developed through institutional tools: Teams, email and Moodle.

In the case of the student in attendance mode:

supervised work: it recommends the personalised attention to help to the student to elaborate his work, from the seleccion of the bibliographic sources, until his structuring and development.

Mixed proof: it recommends the personalised attention to help to the student to resolve the doubts arisen of the preparation of the matter in his group.

In the case of the student with reconocimineto of dedication part time and dispenses academician of exemption of asistenica, will realise a tutorización each fifteen days, in base to the reading of texts recommended and the preparation of informes by part of the student that guarantee the suitable follow-up of the program.

n the case of students in a blended system, the actions of personalized attention will be intensified, through Teams and Moodle, they will be carried out weekly and by email at the student's request.

Assessment			
Methodologies	Methodologies Competencies Description		Qualification
Objective test	A10 B2 B7	Objective test type multiple choice answer test	40
Critical	B5 C6	Assessment of the reviewings contributed by the student along the cuatrimestre.	20
bibliographical			
Supervised projects	A10 A11 B5 B10 C6	Assessment of the supervised work presented by the student.	30
Case study	A10 B2	It will be evaluated the reports derived of studied cases, in which the student will show	10
		his capacity of integration of the theoretical knowledges in the clinical context. It will	
		put special attention, amongst other, to:	
		1. The descripcion of the methodologies of evaluation, intervention employed in the	
		real clinical context.	
		2. The establishment of the diagnostics and the typification of the dysfunction of origin	
		cardiorrespiratorio.	
		3. The connection of the concepts tackled in the classroom and the appearances	
		observed in the real surroundings.	

Assessment comments

The percentages assigned to each proof can suffer small modifications of a course to another in function of the needs of the subject. Nevertheless, the value of the mixed objective/subjective test will be situated between the 30 and 40%, the critical bibliographical between a 20 and 30%, the supervised projects between a 20 and 30% and the field trip between a 10 and 20%

The criteria of evaluation of first and second opportunity will be the same.

The students enrolled part time will have of personalised attention along the course, with a tutoría twice-weekly. They must demonstrate assistance up to 50% of the presencial activities.

Students in semi-attendance regime will take the objective test in person, in addition to attending classes three times in relation to face-to-face activities related to supervised work.

Sources of information



Basic

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Complementary

Recommendations

Subjects that it is recommended to have taken before

Research Methodology/651516001

Multimedia Tools in Research/651516002

Subjects that are recommended to be taken simultaneously

Resource Management in Health and Social Care in Disability and Dependency Situations/651516009

Subjects that continue the syllabus

Other comments

To help to achieve some sustainable immediate surroundings and fulfil with the strategic aims of the Plan Green Campus of the Faculty of Physiotherapy, the documentary works that realise in this matter will be able to request so much in format paper like virtual or computer support. To realise in paper, will be still in the measure of the possible the following general recommendations:- They will not use plastic.- They will realise impressions to double expensive.- It will employ paper recycled.- It will avoid the realisation of drafts

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