



IDENTIFYING DATA

Physiology: Human physiology

Subject	Physiology: Human physiology			
Code	P05G171V01102			
Study programme	Grado en Fisioterapia			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	9	Basic education	1st	1st
Teaching language	Spanish			
Department				
Coordinator	Ferreira Faro, Lilian Rosana			
Lecturers	Ferreira Faro, Lilian Rosana Lopez Patiño, Marcos Antonio			
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General description				

Training and Learning Results

Code				
A1	Students have demonstrated possession and understanding of knowledge in an area of study that builds on the foundation of general secondary education, and is usually at a level that, while relying on advanced textbooks, also includes some aspects that involve knowledge from the cutting edge of their field of study.			
A2	Students are able to apply their knowledge to their work or vocation in a professional manner and possess the competences usually demonstrated through the development and defence of arguments and problem solving within their field of study.			
B1	To know how to work in professional teams as a basic unit in which professionals and other personnel of health care organizations are structured in a uni or multidisciplinary and interdisciplinary way.			
B4	Acquire basic scientific training in research.			
C2	Understand the principles of biomechanics and electrophysiology, and their main applications in the field of physical therapy.			
C6	Identify anatomical structures as a basis of knowledge to establish relationships dynamically with the functional organization.			
C7	Know the physiological and structural changes that can occur as a result of the application of physiotherapy.			
C34	To know and understand the morphology, physiology, pathology and behavior of people, both healthy and sick, in the natural and social environment.			
D1	Ability to communicate orally and in writing in Galician.			
D2	Computer skills related to the field of study			
D5	Developing leadership and organizational skills.			
D7	Maintain an attitude of learning and improvement.			

Expected results from this subject

Expected results from this subject	Training and Learning Results	
New	A1	C6
	A2	C34
New	A1	C6
		C34
New	A2	C6
New	A2	C2
		C7

New	A2	B1 B4	C6 C34	D1 D2 D5 D7
New	A2	B1 B4	C6 C7 C34	D1 D2 D5 D7
New	A2	B1 B4	C6 C7 C34	D1 D5 D7
New	A2	B1	C6 C34	D1 D2 D5 D7

Contents

Topic

(*)- Fisioloxía do sistema nervioso.
- Fisioloxía do sistema endócrino.
- Fisioloxía do sistema cardiovascular.
- Fisioloxía do sistema respiratorio.
- Fisioloxía dixestiva.
- Fisioloxía excretora.

(*)-Fisiología de la neurona.
- Sensibilidad somática y propioceptiva.
- Sensibilidad visual.
- Sensibilidad auditiva y vestibular
- Fisiología del músculo esquelético.
- Eje hipotálamo-hipófisis.
- La adenohipófisis
- Tiroides y paratiroides.
- Adrenales
- Páncreas endocrino.
- Función endocrina de las gónadas.
- Fisiología del corazón.
- El ciclo cardíaco.
- Sistema circulatorio.
- Mecánica respiratoria.
- Transporte de gases.
- Regulación do sistema respiratorio.
- Motilidade.
- Secrecións.
- Digestión e absorción.
- O nefron.
- Mecanismos de transporte.
- Función reguladora.

- Physiology of the nervous system.
- Physiology of the endocrine system.
- Physiology of the cardiovascular system.
- Physiology of the respiratory system.
- Digestive physiology.
- Physiology of the excretory system.

- Physiology of the neuron.
- Somatic and proprioceptive sensation.
- Visual sensitivity.
- Auditory and vestibular sensitivity
- Skeletal muscle physiology.
- Hypothalamus-pituitary axis.
- The anterior pituitary
- Thyroid and parathyroid.
- adrenals
- endocrine pancreas.
- Endocrine function of the gonads.
- Physiology of the heart.
- The cardiac cycle.
- Circulatory system.
- Respiratory mechanics.
- Gas transport.
- Regulation of the respiratory system.
- Motility.
- secretions.
- digestion and absorption.
- The nephron.
- Transport mechanisms.
- Regulatory function.

Planning

Class hours	Hours outside the classroom	Total hours
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Lecturing	61	92	153
Mentored work	0	28	28
Laboratory practical	17	24	41
Objective questions exam	1	0	1
Report of practices, practicum and external practices	1	0	1
Essay	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

	Description
Lecturing	Participatory theoretical classes will be taught using the available audiovisual media.
Mentored work	Work will be supervised by groups related to the subject.
Laboratory practical	Laboratory practices will be carried out on the cardiovascular and respiratory systems, as well as computer simulation practices on the nervous, muscular and endocrine systems.

Personalized assistance

Methodologies	Description
Lecturing	The personalized attention will be focused on solving any doubts that the students may have and guiding their efforts in the matter.
Laboratory practical	The personalized attention will be focused on solving doubts that the students may have and clarifying the evaluation rubric of the practical exam.
Mentored work	The personalized attention, basically, will be focused on solving doubts, guiding the work to be done in the matter, and keeping records and evaluating what the students have done.

Assessment

	Description	Qualification	Training and Learning Results
Lecturing	There will be two partial tests: Partial 1 (30% of the mark): nervous and musculoskeletal system Partial 2 (40% of the mark): endocrine, cardiovascular, respiratory, digestive and excretory systems. Each test will consist of: Objective questions (failures are penalized). The sum of the two partial test will be 70% of the grade. To pass a partial you must obtain a minimum grade of 5 (out of 10). A minimum of 4 points (out of 10) is required in each partial exam to pass the course.	70	B1 D1 D2 D5
Mentored work	The prepared topics will be sent to the responsible teacher according to the calendar. There will be a 10 minute presentation in which it will be evaluated: - Quality of the written report presented (organization, writing, adequacy of the bibliography, focus and depth adjusted to the topic). - Quality of the oral presentation (adequacy to the time, quality of information presented in figures, oral expression, ability to transmission of information, mastery of technical language). -Answers to the questions presented.	10	B1 D1 D2 D5
Laboratory practical	Asistencia y participación en todas las prácticas de la materia. Para superar la materia es obligatoria la asistencia a todas las sesiones de prácticas y la presentación de un informe individual de cada sesión.	20	B1 D1 D2 D5 D7

Other comments on the Evaluation

-CONTINUOUS ASSESSMENT: In the continuous assessment, students will carry out a partial assessment once they have completed 40% of the theoretical content and another partial assessment (60% of the content) in an ordinary call.

PARTIAL 1-Theoretical test: 30%. Contents: nervous and musculoskeletal systems. Objective questions exam: 20%. Development questions exam: 10% PARTIAL 2- Theoretical test: 40% Contents: endocrine, cardiovascular, respiratory, digestive and excretory systems. Objective questions exam: 30% Development questions exam: 10%.Total theoretical evaluations (partial 1 + partial 2): 70%.Supervised work and oral presentation: 10%Laboratory practices: 20%

To pass the subject it is necessary to carry out all the proposed activities. If you do not complete any of them, the grade will be 0 and it will be considered as such in the final grade.

To pass the subject, a minimum grade of 4 (*) is required in each of the partial exams or in the final exam.

A student will be considered not present when they have not carried out any of the activities (exam, seminar, practices) provided for in the course.

(*) In the event that the final mark in the theoretical part is less than 4, the mark obtained will be the one that appears in the

course file (the marks from the rest of the activities will only be taken into account if the value is exceeded). minimum) in the theoretical exam.

GLOBAL EVALUATION (waiving continuous evaluation): In this case, partial evaluations will not be carried out, so in the ordinary call the students will be evaluated as follows: Theoretical evaluations: 70% (60% exam of objective questions and 10% exam of development questions). Work and oral test: 10% Laboratory practices: 20% Students who do not want to follow the continuous evaluation must notify it in writing following the procedure established by the Faculty of Physiotherapy. The resignation to the continuous evaluation must be done in the 5th week of teaching, which means that it will assume the global evaluation established in the subject. Once the continuous evaluation has been waived, there will be no right to it, nor to the considerations established in it. Attendance at all practices and the delivery of individual reports is mandatory to pass the subject.

- EXTRAORDINARY EVALUATION- RECOVERY:

The activities approved in the first opportunity (remediation) of a course are maintained for the second opportunity. On the second opportunity, the practices and seminars will not be able to be recovered, only the partial exams not passed on the first opportunity can be taken.

A student will be considered not present when they have not carried out any of the activities (exam, seminar, practices) provided for in the course.

The students who have renounced the continuous evaluation and adhere to the global evaluation will have the same evaluation percentages as in the ordinary call in the global evaluation modality.

Sources of information

Basic Bibliography

Complementary Bibliography

SILVERTHORN y col., **Fisiología Humana. Un enfoque integrado**, Editorial Médica Panamericana, 4ª edición,

FOX, **Fisiología Humana**, McGraw-Hill, 10ª edición,

DVORKIN-CARDINALE, BEST&TAYLOR, **Bases fisiológicas de la práctica médica**, Editorial Médica Panamericana, 13ª edición,

FERNÁNDEZ, **Manual de laboratorio de Fisiología**, McGraw-Hill, 4ª edición,

TRESGUERRES y col., **Fisiología humana**, Interamericana, 3ª edición,

Recommendations