# Universida<sub>de</sub>Vigo

Subject Guide 2015 / 2016

IDENTIFYIN					
	uman Anatomy and kinesiol	ogy			
Subject	Anatomy: Human				
	Anatomy and				
	kinesiology				
Code	P02G050V01201				
Study	(*)Grao en				
programme	Ciencias da				
	Actividade Física e				
-	do Deporte			1	
Descriptors	ECTS Credits		Choose	Year	Quadmester
	6		Basic education	1st	2nd
Teaching					
language					
Department					
Coordinator	García García, Óscar				
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General		_			
description					

#### Competencies

Code

- B2 Knowledge and comprehension of the scientific literature of the area of the physical activity and the sport.
- B3 Knowledge and compression of the physiological factors and biomechanics that determine the practice of the physical activity and the sport
- B7 Knowledge and comprehension of the foundations, structures and functions of the skills and bosses of the motricity humanizes.
- B8 Knowledge and comprehension of the structure function and development of the different manifestations of the motricity humanizes.
- B11 Knowledge and comprehension of the ethical beginning necessary for the correct professional exercise.
- B13 Habits of excellence and quality in the professional exercise.
- B14 Managing of the scientific basic information applied to the physical activity and to the sport in his different manifestations.
- B18 Aptitude to apply the physiological beginning, biomechanics, behavioral and social, to the different fields of the physical activity and the sport.
- B20 Aptitude to identify the risks that stem for the health of the practice of physical inadequate activities.
- B23 Aptitude to select and to be able to use the material and sports equipment adapted for every type of activity.
- B26 Adjustment to new situations, the resolution of problems and the autonomous learning.
- C1 Aptitude to design, to develop and evaluate the processes of education learning relative to the physical activity and the sport with attention to the individual and contextual characteristics of the persons.
- C3 Aptitude to apply the physiological and biomechanical skills, comportamentales and social, in the offer of tasks in the processes of education learning across the physical activity and sport.
- C4 Aptitude to identify the risks that stem for the health of the students due to the practice of inadequate physical
- C7 Aptitude to plan, to develop and control the process of training in the different levels
- C8 Aptitude to apply the physiological biomechanical, comportamental and social principles, during the process of the sports training
- C11 Aptitude to plan, to develop and to control the accomplishment of programs of sports training

Learning outcomes	
Expected results from this subject	Training and Learning
	Results

criteria for his classification, specific terminology		B2 B7 B8 B14 B20 B23	C3 C8
The student has to be able to know the application development of the qualities *psicofísicas.	n of the exercise with the purpose of	B11 B13 B14 B18 B20 B23 B26	C3 C4 C7 C8 C11
The student has to be able to comprise the mechanical and physiological dimension of the corpo movement analysing it from the articular and muscular points of view.		ral B3 B7 B8 B18	C1 C3 C8
Contents			
Topic			
Subject 1. The corporal movement and the physical exercise. Concept and purpose. Different approaches in the application of the exercise.	☐ Corporal movement. t☐ Tasks *motrices.		
Subject 2. Foundations of realisation *motriz.  Mechanisms involved in the action *motriz.  Factors in the execution of the movements.	<ul><li>Mechanisms involved in the action *motriz.</li><li>Factors in the execution of the movements.</li></ul>		
Subject 3. Formal characteristics of the physical exercise.	☐ Intensity ☐ Intention ☐ Forms ☐ Technical		
Subject 4. Articular movements	<ul> <li>Movements that can effect each articulation of the movement</li> <li>Flat and axes of orientation of the movement</li> </ul>		an body.
Subject 5. Analysis of positions and of movements of simple mechanics and of complex mechanics.			
Subject 6. Study of the muscular action in the exercises.	<ul> <li>Types of muscular contraction.</li> <li>Actions and functions of the muscles.</li> <li>Conjoint participation of the muscles in the model.</li> <li>Influence of the gravity and of other external action.</li> </ul>		on the muscular
Subject 7. Analysis of positions and of movements of simple mechanics and of complex mechanics attending to the muscular participation.		s: muscular	
Subject 8. The basic physical qualities. Effects in the organism.	<ul> <li>□ Concept and factors of physical conditioning.</li> <li>□ Adaptative processes to the physical exercis.</li> <li>□ *Periodización Of the practice of the physical.</li> <li>□ Evolution of the capacities *motrices.</li> <li>□ Foundations for the development of the physical.</li> </ul>	e. l exercise. sical conditi	
Subject 9. Demonstration, development and assessment of the dependent capacities of the device *locomotor.	<ul> <li>☐ The strength. Concept, classes and diverse of</li> <li>☐ Systems of development of the strength.</li> <li>☐ Assessment of the muscular strength.</li> <li>☐ The speed: concept, classes and factors of w</li> <li>☐ The flexibility: concept and factors of which of</li> <li>☐ Systems of development: dynamic and static</li> </ul>	hich dependepende	
Subject 10. Demonstration, development and assessment of the dependent capacities of the processes of obtaining and utilisation of energy.	☐ The resistance. Concept and classes. ☐ Systems of acquisition of the resistance. ☐ Assessment of the resistance.		
Subject 11. Qualities *psicomotoras related with the muscular action.	☐ Concept and classes of qualities *psicomotor☐ The coordination. Concept and types, accord☐ Forms of development of the coordination.☐ The balance. Concept and classifications.		lifferent criteria:

	Class hours	Hours outside the classroom	Total hours
Laboratory practises	28	25	53
Troubleshooting and / or exercises	5	5	10
Presentations / exhibitions	1	1	2
Master Session	16	18	34
Multiple choice tests	0.5	30	30.5
Practical tests, real task execution and / or simulated	0.5	20	20.5

<sup>\*</sup>The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Laboratory practises	In the schedule of practices of laboratories will develop tasks and exercises directed by the professor on appearances presented in the theoretical classes.
Troubleshooting and / o exercises	or The theoretical concepts will be accompanied in the theoretical classes with exercises and resolution of problems.
Presentations / exhibitions	They will present studies of cases so that student can have references
Master Session	It will use the exhibition by part of the professor like half main of education.

Personalized attention			
Methodologies	Description		
Master Session	It will try attend of form *individualizada to the students, recognising his particular problems.		
Laboratory practises	It will try attend of form *individualizada to the students, recognising his particular problems.		
Troubleshooting and / or exercises	It will try attend of form *individualizada to the students, recognising his particular problems.		

Assessment				
	Description	Qualification	Lea	ning and arning esults
Laboratory practises	It is compulsory to assist at least to 80% of the practices to be able to obtain a positive evaluation	0	B11 B14 B20 B26	C1 C3
Troubleshooting and / c exercises	or They will review the exercises realised by the students in the practices of laboratory. It is compulsory to realise all the exercises proposed in the classes	10	B13 B14 B18 B23 B26	C1 C4 C8 C11
Multiple choice tests	It realised an examination type test of only answer, on 5 possible,where is necessary to obtain at least a 60 percent of correct answers, taking into account that each 4 errors discounts a positive, or his proportional part	90	B2 B3 B7 B8 B20	C1 C3 C4 C7 C8 C11

## Other comments on the Evaluation

In successive announcements the criteria of evaluation will be identical to the presented previously.

It is necessary to obtain at least 60% of answers very answered in the examination type test, taking into account that each 4 badly answered questions subtract a positive, or his proportional part.

## Sources of information

Kapandji, I.A. (2006). Cuadernos de fisiología articular. Tomos, I, II y III. Madrid: Médica-Panamericana.

Izquierdo, M. (2008). Biomecánica y bases neuromusculares de la actividad física y el deporte. Madrid: Médica-

Panamericana.

Nacleiro, F. (2011). Entrenamiento deportivo. Fundamentos y aplicaciones. Barcelona: Editorial médica-panamericana.

Nitsch, JR., Neumaier, a., Marées, H. & Mester, J. (2002). Entrenamiento de la técnica. Contribuciones para un enfoque interdisciplinario. Barcelona: Paidotribo.

VVAA. (2001). Kinesiología y anatomía aplicada a la actividad física. Barcelona: Paidotribo

#### Recommendations

## **Subjects that continue the syllabus**

Biomechanics of sports techniques/P02G050V01903

Planning and methodology in sports training I/P02G050V01502

## Subjects that it is recommended to have taken before

Anatomy: Human anatomy for movement/P02G050V01101