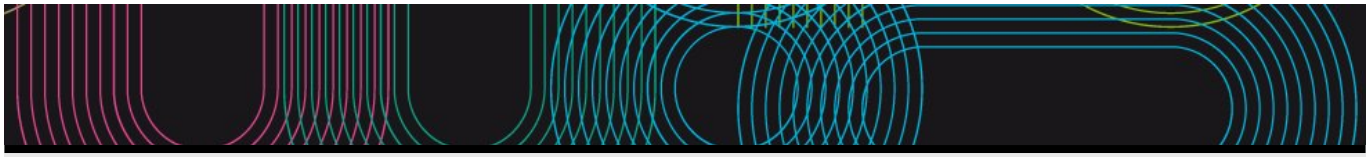

IDENTIFYING DATA				
Analysis of Sports Performance				
Subject	Analysis of Sports Performance			
Code	P02M156V01204			
Study programme	Máster Universitario en Investigación en Actividad Física, Deporte y Salud			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	20	Optional	1st	2nd
Teaching language	Spanish Galician			
Department				
Coordinator	García García, Óscar			
Lecturers	García García, Óscar Rey Eiras, Ezequiel			
E-mail	oscargarcia@uvigo.es			
Web				
General description				

Training and Learning Results	
Code	
A2	The students known to apply the acquire knowledge and be able to solve problem in new environment or less known in wider contexts (or multidisciplinary) related with their study area.
A5	The students own the ability of learn to continuos studying, in wide range, on a self-directed and autonomous way.
B2	Be able to devise, design, put in to practice and adopt a research process rigorously academics in the physical activity, health and sports study ambit.
B4	Critically analyze, evaluate and synthesize new and complex ideas in the physical activity, health and sports study ambit.
C2	Develop scientific thoughts capacity to research in the physical activity, health and sports study ambit.
C4	Show link attitudes with excellence habits, ethical commitment and quality in the research exercise physical activity, health and sports study ambit
C5	Known and dominant the information search procedures and tools, both en primary and secondary sources in physical activity, health and sports.
C6	Be able to analyze organized, select, classify and compile information about physical activity, health and sports study ambit.
C7	Assess, manage and combine different techniques of physical activity, health and sports sciences research.
C9	Be able to design and implement a research work in the physical activity, health and sports study ambit.
C10	Manage software packages for the introduction and data analyze collected in the physical activity, health and sports study ambit.
C13	Execute the most used statistical analyzed technique of the physical activity, health and sports research.
C16	Be able to incorporated new technologies and integrate knowledge from other professional and scientific ambits.
C21	Develop on a efficient manner own task□s of the design, implementation, analyzed and publish work related wit the sports performance ambit.
D1	Critically assess the knowledge, the technology and the available information to solve problems.
D2	Effectively communicate in academic and informative ambits ideas and concepts linked with the physical activity, health and sports studies.
D3	Be able to promote in academic and professional contexts activities to improve the technological advance, social and cultural, in physical activity, health and sports sciences field.
D4	Use basic tools of information and communication technologies (ICTs) needed for their profession exercise and for the lifelong learning.

Expected results from this subject

Expected results from this subject	Training and Learning Results
The student will be able to realise an analysis of the sportive performance in a determinate sport, using like variables of study those that have showed to be determinated factors of the performance in this sport	A2 A5 B2 C2 C4 C5 C6 C7 C9 C16 C21 D1 D3 D4
The student will be able to interpret the results, giving felt to the most notable findings of his research, work and analysis of the data	B2 B4 C2 C10 C13 D1 D2 D3 D4

Contents	
Topic	
The scientific method in the analysis in the sports	Identification of factors of the performance Hierarchy of the factors of the performance
Designs of investigation for the analysis of the sports	Designs of investigation for the analysis of the sports of situation Designs of investigation for the analysis of the sports bioenergetics
Implementation of a design for the analysis of one or several sports	Implement a design of investigation to analyse a concrete sport
Collected and processing of corresponding data to a design for the analysis of one or several sports	Collected and processing of corresponding data to a design for the analysis of the sport chosen
Oral communication and written of a design for the analysis of one or several sports	Oral communication and written of the design for the analysis of the sport chosen

Planning			
	Class hours	Hours outside the classroom	Total hours
Autonomous problem solving	0	100	100
Seminars	18	20	38
Laboratory practical	70	150	220
Flipped Learning	6	40	46
Lecturing	6	25	31
Problem and/or exercise solving	1	10	11
Essay	1	26	27
Essay	1	26	27
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.			

Methodologies	
	Description
Autonomous problem solving	The student will resolve the tasks proposed by the educational
Seminars	Discussion in small groups on the contents of the matter
Laboratory practical	They will propose practices of laboratory
Flipped Learning	The student will receive through the platform of faitic documentation so that it can work on her and later can pose to the professor doubt or problems of learning related with these contents
Lecturing	Theoretical classes-practical given by the educational

Personalized assistance

Methodologies	Description
Lecturing	The student will receive personalized attention at the time designated for it in each academic year. Agreed tutorials will also be established to monitor and control their activity of the theoretical contents within the subject. The tutorials or meetings will be held either in person or through virtual modality, either through the virtual offices of the teachers (1006, prof. Dr. Oscar García García), or by email or through the forums of the tele-teaching platform Moovi.
Laboratory practical	The student will receive personalized attention at the time designated for it in each academic year. Agreed tutorials will also be established to monitor and control their activity of the theoretical contents within the subject. The tutorials or meetings will be held either in person or through virtual modality, either through the virtual offices of the teachers (1006, prof. Dr. Oscar García García), or by email or through the forums of the tele-teaching platform Moovi.

Assessment

	Description	Qualification	Training and Learning Results			
Problem and/or exercise solving	The proof will consist in answering to a battery of ten questions of short answer	20	A5	B4	C2 C4 C6 C7	D1
Essay	The work will consist in identifying the factors that determine the performance in a determinate sportive discipline. Determine the solidest parameters to be evaluated and propose a design of a project of investigation related with these factors. The student will propose at least the aims, hypothesis, and method of a possible design of investigation. It will be necessary to approve it to surpass the matter	40	A2	B2 B4	C2 C4 C5 C6 C7 C9 C10 C13 C16 C21	D1 D2 D3 D4
Essay	The work will consist in making a statistical analysis of the sportive performance: The students will have to analyse real databases of professional sportsmen and issue a report of analysis of the performance applying technical statistics advanced.	40	A2	B2 B4	C2 C4 C5 C6 C7 C9 C10 C13 C16 C21	D1 D2 D3 D4

Other comments on the Evaluation

The student must pass all the CONTINUOUS assessment tests in order to pass the subject. In case of not having passed the subject in the first call, the skills not acquired will also be evaluated GLOBALLY in the July call. The evaluation in successive calls will be carried out in the same way as that initially proposed with the two tests. The official dates of the exams can be consulted on the website of the Faculty of Education and Sports Sciences http://fcced.uvigo.es/

Sources of information

Basic Bibliography

Hohmann, A., Lames, M., y Letzeier, M., **Introducción a la ciencia del entrenamiento.**, 1, Paidotribo, 2005

Tomas, J.R. y Nelson , J.K., **Métodos de investigación en actividad física.**, 1, Paidotribo, 2006

McGarry, T.; O´Donogue, P. y Sampaio, J., **Handbook of Sports performance analysis.**, 1, Routledge, 2013

Complementary Bibliography

Nacleiro, F., **Entrenamiento Deportivo: fundamentos y aplicaciones en diferentes deportes.**, 1, Medica panamericana, 2011

Neumaier, A. de Marees, H., Seiler, R., **Entrenamiento de la técnica. Contribuciones para un enfoque interdisciplinario.**, 1, Paidotribo, 2002

Magnusson, M.S., **Hidden real-time pattern in intra- and inter-individual behavior.**, Europan Journal of Psychological Assessment, 12(2, 1996

Beck, T. W., **The importance of a priori sample size estimation in strength and conditioning research**, Journal of Strength and Conditioning Research/Nati, 2013

Hopkins, W. G., Marshall, S. W., Batterham, A. M., & Hanin, J., **Progressive Statistics for Studies in Sports Medicine and Exercise Science**, Medicine & Science in Sports & Exercise, 4, 2009

Turner, A., Brazier, J., Bishop, C., Chavda, S., Cree, J., & Read, P., **Data Analysis for Strength and Conditioning Coaches: Using Excel to Analyze Reliability, Differences, and Relationships.**, Strength & Conditioning Journal, 37(1), 76□83., 2015

Recommendations

Subjects that it is recommended to have taken before

Exploratory Data Analysis and Inferential Analysis/P02M156V01108
Multivariate Analysis/P02M156V01109
Observation Designs Applied to Sports Research/P02M156V01105
Research Methods in Physical Activity and Sports Sciences/P02M156V01101
Scientific Communication and Documentation Sources in Physical Activity and Sports Sciences/P02M156V01102
Qualitative Methods in Physical Activity and Sports Sciences/P02M156V01106
Experimental and Quasi-experimental Methods in Physical Activity and Sports Sciences/P02M156V01103
Selective Correlational Methodology/P02M156V01104
Systematic Review and Meta-analysis/P02M156V01107