



IDENTIFYING DATA

(*)Metodoloxía Experimental e Cuasiexperimental nas Ciencias da Actividade Física e o Deporte

Subject	(*)Metodoloxía Experimental e Cuasiexperimental nas Ciencias da Actividade Física e o Deporte			
Code	P02M156V01103			
Study programme	(*)Máster Universitario en Investigación en Actividade Física, Deporte e Saúde			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	3	Mandatory	1st	1st
Teaching language	Spanish			
	English			
Department				
Coordinator	Romo Pérez, Vicente			
Lecturers	Romo Pérez, Vicente			
E-mail	vicente@uvigo.es			
Web				
General description	(*)Con este método trátase de pór de manifesto as relacións causales entre a exposición e a resposta. Debido ás limitacións que presenta esta metodoloxía con persoas é polo que a materia céntrase nos estudos cuasiexperimentales.			

Competencies

Code	
A1	Own and understand knowledge that provide a base or an opportunity to be original at the develop or application of ideas, often in a research context.
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.
A3	The students known to integrate knowledge and confront the complexity of formulate judgments from information that, been incomplete or limited, include reflexions about social and ethics responsibilities linked to the application of their knowledge and judgments.
A5	The students own the ability of learn to continuos studying, in wide range, on a self-directed and autonomous way.
B1	Recognize and learn the study field of physical activity, health and sports, acquiring enough of abilities and methods of researching en these areas.
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.
C7	Assess, manage and combine different techniques of physical activity, health and sports sciences research.
C8	Analyze on a critically the methodological options that arise in the physical activity, health and sports study ambit.
C9	Be able to design and implement a research work in the physical activity, health and sports study 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.

Learning outcomes

Expected results from this subject	Training and Learning Results
Know and understand a design of investigation with the experimental methodology and quasi-experimental	A1 A2 A3 A5 B1 B2 B4 C7 C8 C9 D1 D2 D3 D4
Know analyse the results, interpret them, argue them and obtain conclusions of the same.	A1 A2 A3 A5 B1 B2 B4 C7 C8 C9 D1 D2 D3 D4

Contents

Topic	
1.- The experimental and quasi-experimental design in sciences of the physical activity and of the sport.	1.1. *Características Of the experimental design and quasi-experimental. 1.2. Design of comparison of groups.
2.- The experimental control. Validity	2.1. Total variance, systematic variance, variance error. 2.2. Maximize, minimize, control. 2.3. Techniques of control of the variance. - Primary systematic variance - secondary systematic Variance - Variance error 2.4. Internal validity. 2.5. External validity
3.- Designs unifactoriales and factorial designs	4.1. Unifactorial intersubject designs 4.2. Unifactorial intrasubject designs 4.3. Factorial designs
4.- Designs quasi-experimentales	5.1. Preexperimental designs and quasi-experimental designs 5.2. Time series design 5.3. Case study research

Planning

	Class hours	Hours outside the classroom	Total hours
Master Session	10	40	50
Autonomous troubleshooting and / or exercises	0	60	60
Troubleshooting and / or exercises	5	20	25

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

Methodologies

	Description
Master Session	Exhibition by part of the professor of the contents on the matter object of study, theoretical bases and/or guidelines of a work, exercise or project to develop by the student.
Autonomous troubleshooting and / or exercises	(*)O alumno debe desenvolver de forma autónoma a análise e resolución dos problemas e/ou exercicios.

Troubleshooting and / or exercises

Personalized attention

Methodologies	Description
Troubleshooting and / or exercises	Professor will resolve the doubts of the student

Assessment

	Description	Qualification	Training and Learning Results			
Master Session	Examination asks short and/or test	30	A1	B1	C7	D1
			A2	B2	C8	D2
			A3	B4	C9	D3
			A5			D4
			A5			D4
Autonomous troubleshooting and / or exercises	(*)Avaliarase a calidade do traballo presentado	40	A1	B1	C7	D1
			A2	B2	C8	D2
			A3	B4	C9	D3
			A5			D4
			A5			D4
Troubleshooting and / or exercises	Resolution of practical problems	30	A1	B1	C7	D1
			A2	B2	C8	D2
			A3	B4	C9	D3
			A5			D4
			A5			D4

Other comments on the Evaluation

Sources of information

Sofia Fontes de Gracia, **Diseños de investigación en psicología**, UNED,

Recommendations
