# Universida<sub>de</sub>Vigo

Subject Guide 2023 / 2024

IDENTIFYIN					
	lethods in Physical Activity a	nd Sports Sciences			
Subject	Research Methods				
	in Physical Activity				
	and Sports				
	Sciences				
Code	P02M156V01101				
Study	Máster				
programme	Universitario en				
	Investigación en				
	Actividad Física,				
	Deporte y Salud				
Descriptors	ECTS Credits		Choose	Year	Quadmester
	3		Mandatory	1st	1st
Teaching	Spanish				
language	Galician				
Department		,	,		
Coordinator	Gutierrez Sánchez, Águeda				
	Rey Cao, Ana Isabel				
Lecturers	Gutierrez Sánchez, Águeda				
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#### **Training and Learning Results**

coherence epistemological and methodological.

Code

General

description

- 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.

In the course will facilitate a basic understanding of the characteristics of the scientific knowledge how cultural

phenomenon and historical builded. They Will seat the bases for it construcción of investigations with

- 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.
- 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.
- C1 Be able to differentiate and select the paradigm, epistemological framework and reference scientific methodology in the design of the studies 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.
- C3 Be able to analyze and understand the varied theories and the state of matter 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
- 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.
- 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	Too to to so and I	
Expected results from this subject	Training and Learning Result	
Know and pose a research problem.	B2	
	C1	
	C2	
	C3	
	D1	
	D4	
Know and know draft hypothesis of investigation.	A1	
,,	A2	
	B2	
	C2	
	C9	
Know and know define the variables of investigation.	A1	
Tallott and tallott active and tallotte or introdugation	A2	
	A3	
	B2	
	B4	
	C2	
	C9	
Be able to interpret results, argue them and obtain conclusions of the same.	A1	
	A2	
	A3	
	A5	
	B2	
	B4	
	C2	
	C4	
	C9	
	D1	
	D3	
	D4	
Knowledge of the different technical of investigation.	A5	
Talomicage of the amerene technical of investigation.	C7	
	C8	
	D3	
	D4	
^autauta		
Contents		
Горіс 1. The investigation in sciences of the physical		
activity, sport and health.		
2. The scientific approach. The cycle of		
plication in the sciences of the physical		

Contents
Topic
1. The investigation in sciences of the physical
activity, sport and health.
2. The scientific approach. The cycle of
application in the sciences of the physical
activity, sport and health.
3. Approach of the problem in the sciences of the
physical activity, sport and health.
4. The hypothesis in the scientific investigation in
the sciences of the physical activity, sport and
health.
5. Variables of investigation in sciences of the
physical activity, sport and health.
7. Collected and analysis of data in the sciences
of the physical activity, sport and health.
8. Interpretation, discussion and communication
of results in the field of sciences of physical
activity, sport and health.

Planning			
	Class hours	Hours outside the	Total hours
		classroom	
Lecturing	10	30	40

Problem solving	5	15	20	
Autonomous problem solving	1	14	15	

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

Methodologies	
	Description
Lecturing	The session masterly exhibition form predominates, the course contents. It works primarily knowledge (technical expertise), but also work other knowledge (know-how, how to be and how to stay). The teacher plays a highly active. The student has the function to take notes, notes, related concepts, ask / teacher.
Problem solving	Formulation, analysis, resolution and debate by students of a problem or exercise related to the subject matter.
Autonomous problem solving	Formulation, analysis, resolution and debate by students of a problem or exercise related to the subject matter.  Realization of works connected with the subject.

Personalized assistance			
Methodologies	Description		
Autonomous problem solving	Counseling and tutoring to solve the problems arisen in the matter. This time is set aside to meet and resolve the doubts of students. The attention will be individually and in small groups, depending on the nature of the attention. Whenever an individual will take place in the office of teaching, by videoconference or by mail. These activities have as their function and guiding the learning process of the students.		

Assessment					
	Description	Qualification	Training and Learning Results		
Lecturing	Examination of the contents treated in class. Control of the assistance and critical participation in the face-to-face classrooms.	40		C2	D1 D3
Problem solving	Evaluation and correction of the exercises and activities proposed in the face-to-face classroom.	20		C4 C7 C8	D1 D4
Autonomous problem solving	Development, implementation and correct and activities proposed for its accomplishment outside classroom hours . Correction of the assignments linked to the matter.	A A	A1 B2 A2 B4 A3 A5	C2 C4 C7 C8 C9	

## Other comments on the Evaluation

# Continuous evaluation regime:

To be able to access the continuous evaluation modality, it is necessary to perform all the tests explained above.

Students who do not develop these methods will not be able to access the continuous assessment. In these cases, you can opt for the global evaluation. If the subject is not passed in the first call, the evaluation in the second call will be carried out exclusively through a written test.

Students who find themselves in special and/or justified circumstances that prevent them from completing any of the evaluation tools must communicate this at the beginning of the course in order to be able to adapt the evaluation to their case. In the event that any exceptional circumstances occur during the development of the course, it must be communicated at least two months in advance of the official date of the exam.

#### Global evaluation regime:

The students who have not opted for the continuous evaluation, will carry out a global evaluation on the official dates. The tests will allow you to obtain 100% of the subject's grade.

### Sources of information

#### **Basic Bibliography**

Acevedo-Díaz, J. A., Vázquez-Alonso, A., Manassero-Mas, Mª.A. & Samp; Acevedo-Romero, P., Consensos sobre la naturaleza de la ciencia: fundamentos de una investigación empírica., 2007

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Fernández, I., Gil, D., Carrascosa, J., Cachapuz, A. & Damp; Praia, J., 2002

Rey Cao, A., Ciencia y motricidad. Epistemología de las ciencias de la actividad física y el deporte., 1º ed., Dykinson, 2014

**Complementary Bibliography** 

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Bericat, E., La integración de los métodos cuantitativo y cualitativo en la investigación social., 1ª ed., Ariel, 1998

Bourdieu, P., Chamboredon, J.C., & Discourse Passeron, J.C., El oficio de sociólogo, presupuestos epistemológicos, 2ª ed., Siglo XX1, 1989

Bunge, M., La Investigación científica, 2ª ed., Ariel, 1985

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Padrón, J., Tendencias Epistemológicas de la Investigación científica en el Siglo XXI., 2007

Pereda, S., Psicología Experimental. I. Metodología., 1ª ed., Trillas, 1987

Sidman, M., Pácticas de investigación científica., 1ª ed., Fontanella, 1978

Tomas, J. R. & Drivann, Nelson, J.K., Métodos de investigación en actividad física., 1ª ed., Paidotribo, 2006

#### Recommendations

## Subjects that continue the syllabus

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