# Universida<sub>de</sub>Vigo

Subject Guide 2021 / 2022

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IDENTIFYIN				
	lethods in Physical Activity and Sports Sciences			
Subject	Research Methods			
	in Physical Activity			
	and Sports			
	Sciences			
Code	P02M156V01101			
Study	(*)Máster			
programme	Universitario en			
	Investigación en			
	Actividade Física,			
	Deporte e Saúde			
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			
	Rey Cao, Ana Isabel			
E-mail	anacao@uvigo.es			
	agyra@uvigo.es			
Web				
General	In the course will facilitate a basic understanding of t	he characteristics o	f the scientific	knowledge how cultural
				<u> </u>

### **Skills**

description

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.

coherence epistemological and methodological.

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.

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	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
now and pose a research problem.  now and know draft hypothesis of investigation.  now and know define the variables of investigation.  e able to interpret results, argue them and obtain conclusions of the same.  nowledge of the different technical of investigation.	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
	C7
	C8
	D3
	D4
Contents	
opic	
. The investigation in sciences of the physical	
activity, sport and health.	
2. The scientific approach. The cycle of	

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.	50	C2	D1
	Control of the assistance and critical participation in the face-to-face classrooms.			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 C2 A2 B4 C4 A3 C7 A5 C8 C9	

## Other comments on the Evaluation

The evaluation will be held on second call exclusively through a written test.

# Sources of information

#### **Basic Bibliography**

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

Barriga, O. & Digital de Estudio. Reflexiones desde la práctica docente., 2003

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

Rey Cao, A., Ciencia y motricidad. Epistemología de las ciencias de la actividad física y el deporte., 1ª 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., & Discourant de Sociólogo, presupuestos epistemológicos, 2ª ed., Siglo XX1, 1989

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Guba, E. G. & Denzin (Eds.), Handbook of Qualitative Research. En N.K. Denzin & Denzin (Eds.), Handbook of Qualitative Research., Sage, 1994

Gutiérrez-Dávila, M. y Oña, A., Metodología en las ciencias del deporte., 1ª ed., Síntesis, 1982

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Kuhn, T.S., La estructura de las revoluciones científicas., 1ª ed., Fondo de Cultura Económica, 2000

Longino, H., Subjects, Power, and Knowledge: Description and Prescription in Feminist Philosophies of Science, en Linda Alcoff y Elizabeth Potter (eds.). Feminist Epistemologies (pp. 101-121)., 1ª ed., Routledge, 1993

Lozares, C.; Martín, A. & Damp; López, P., 1998

Maffia, D., Epistemología feminista: La subversión semiótica de las mujeres en la ciencia., 2007

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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., ácticas de investigación científica., 1º ed., Fontanella, 1978

Tomas, J. R. & amp; amp; 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

# Contingency plan

#### **Description**

=== EXCEPTIONAL MEASURES PLANNED ===

Faced with the uncertain and unpredictable evolution of the health alert caused by COVID-19, the University establishes an extraordinary planning that will be activated when the administrations and the institution itself determine it, taking into account safety, health and responsibility criteria, guaranteeing teaching in a non-face-to-face setting or not totally face-to-face. These measures guarantee, when it is mandatory, the development of teaching in a more agile and efficient way through the standardized and institutionalized tool of the DOCNET teaching guides.

## === ADAPTATION OF METHODOLOGIES ===

A) Teaching methodologies that are modified

The same teaching methodologies will be carried out as those contemplated in a situation without alert but adapting them to an online modality. To this end, the Remote Campus and Moovi will be used.

B) Non-face-to-face mechanism of attention to students (tutorials)

The tutorials will take place through the remote campus.

- Profa. Ana Rey Cao: Room 2129 (https://campusremotouvigo.gal/access/public/meeting/912187149)
- Profa. Águeda Gutierrez Sánchez: Room 1251 (https://campusremotouvigo.gal/\*access/public/meeting/538827467) As an alternative, when necessary, they will be done by skype or email (anacao@uvigo.gal; agyra@uvigo.es).

The Doodle tool may be used for the management of lectures and seminars.

# === ADAPTATION OF THE EVALUATION ===

The evaluation will stay the same. The different methodologies / tests will be carried out by the specified telematic means.