

Year 2023/2024

282026 - Research Methods and Techniques Applied to Behavioural Sciences. Physical Activity and

Information about the subject

Degree: Bachelor of Sciences of Physical Activity and Sport

Faculty: Faculty of Physical Activity and Sport Sciences

Code: 282026 Name: Research Methods and Techniques Applied to Behavioural Sciences.

Physical Activity and Sport

Credits: 6,00 ECTS Year: 4 Semester: 1

Module: 11) Optional module

Subject Matter: Research Methods in Physical Activity Type: Elective

Field of knowledge: Basic Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

11) Optional module

Subject Matter	ECTS	Subject	ECTS	Year/semester
Athletics	6,00	Athletics	6,00	4/1
Football	6,00	Football/Soccer	6,00	4/1
Swimming	6,00	Swimming	6,00	This elective is not offered in the academic year 23/24
Tennis	6,00	Tennis	6,00	This elective is not offered in the academic year 23/24
Basketball	6,00	Basketball	6,00	4/1
New Tendencies of Practices in Sports Centers	6,00	New Trends of Practice in Sports Centres	6,00	This elective is not offered in the academic year 23/24
Paddel Tennis	6,00	Paddle	6,00	4/1
Direction and management of fitness and sports facilities	6,00	Direction and Management of Gymnasiums and Sports Centres	6,00	This elective is not offered in the academic year 23/24
Research Methods in Physical Activity	6,00	Research Methods and Techniques Applied to Behavioural Sciences. Physical Activity and Sport	6,00	4/1



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Water recreation activities	6,00	Recreational Water Activities	6,00	This elective is not offered in the academic year 23/24
Sport in the Natural Environment: Specific Techniques	6,00	Sports in the Natural Environment: Specific Techniques	6,00	4/1

Learning outcomes

R2

R6

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

R1	The student will learn research methodology of the investigation: stages, themes choic hypothesis, population selection.	æ,

The student will learn to gain knowledge and have a good comprehension of the scientific methods applied to the Sport Science.

R3 Mastering APA style and use of references managers software.

R4 The student will be able to perform a scientific report: Process, functions and types.

R5 The student will learn to apply descriptive/inferential techniques for one or several variables.

Be able to understand, quantify and express the linear relationship between two numerical variables.



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Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

GENERAL			Weighting		
		1	2	3	4
CG1	Understanding scientific literature in English and other important languages widely used in the scientific field achieving a good management of information		x		1
CG2	Ability to apply information technology and communication (ICT)			X	
CG3	Develop skills to solve problems through decision-making		1	x	1
CG4	Transmit any information regarding the contents of body expression both in writing and orally			1	X
CG7	Be capable of critical reasoning using the knowledge gained				X
CG13	Being able to apply theoretical knowledge in practice				x
CG14	Use Internet well as communication and as a source of information			X	
CG15	Conveying the acquired knowledge both to specialists in the subject and to people who are not experts on it			X	
CG19	Developing habits aiming at obtaining excellence and quality at work			x	

SPECII	FIC	Weighting
	1	2 3 4
CE1	Knowing and understanding the contents within the scope of Physical Activity and Sports Science	x



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CE2	Acquiring the basic scientific knowledge to different areas of Physical Activity and Sports and understanding literature in the field of physical Activity sports in English and in the other important languages widely used in the scientific field achieving a good management of information	X	
CE19	Learn to apply the techniques of information and communication within the body expression		x

Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5, R6	50,00%	Written/oral and/or practical tests.
R1, R2, R3, R4, R5, R6	5,00%	Participation and self-assessment.
R1, R2, R3, R4, R5, R6	25,00%	Completion of a project.
R1, R2, R3, R4, R5	20,00%	Oral exhibition of individual and / or group works.

Observations

To pass the subject in the FIRST ENROLMENT will be essential:

- ·It is compulsory to submit all proposed work and activities throughout the course and have a minimum grade of 5 points in them.
 - It is required obtaining a passing grade (5 of 10) in the written exam.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

M1 Exhibition of contents by the teacher.



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- M2 Dynamics and group activities.
- M3 Resolution of problems and cases.
- M5 Discussion in small groups.



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IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
PRACTICAL /SEMINAR CLASS: Dynamics and group activities. Resolution of problems and cases. Laboratory practices. Data search in a computer room, library Meaningful construction of knowledge through the interaction and activity of the student M2, M3, M5	R1, R2, R3, R4, R5, R6	34,00	1,36
TUTORY: Learning supervision, evolution. Discussion in small groups. Resolution of problems and cases. Presentation of results before the teacher. Presentation of schemes and indexes of the proposed works. M5	R1, R2, R3, R4, R5, R6	2,00	0,08
EVALUATION: Set of oral and / or written tests	R1, R2, R3, R4, R5, R6	4,00	0,16
used in the evaluation of the student, including the oral presentation of the final project.			
M2, M3			
THEORETICAL CLASS: Presentation of content	R1, R2, R3	20,00	0,80
by the teacher. Competency analysis. Demonstration of skills, abilities and knowledge in the classroom.			
M1, M2, M5			
TOTAL		60,00	2,40



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LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
GROUP WORK: Problem solving. Preparation of exercises, works, memories, to exhibit or deliver in classes and / or in tutoring. M2, M3	R1, R2, R3, R4, R5	35,00	1,40
AUTONOMOUS WORK: Study, Individual preparation of exercises, works, memories, to exhibit or deliver in classes and / or in tutoring. Platform activities or other virtual spaces.	R1, R2, R3, R4, R5	55,00	2,20
TOTAL		90,00	3,60

Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
Unit I: Fundamentals of Research Methodology in Physical Activity and Sports	Lesson 1: Introduction to Research in Physical Activity.Lesson 2: The problem of the Research. The scientific method. Phases of a Research.Lesson 3: The research report. Types and structure.Lesson 4: Literature review. Databases. Bibliographic styles and citations. Bibliographic Software: Refworks, Zotero.Lesson 5: Definition of research designs.
Unit II: Practical cases. Analysis of the data obtained from investigations of Physical Activity and Sport with statistical software: step by step.	Lesson 6. Review basic concepts of descriptive statistics.Lesson 7. Statistical inference: Hypothesis testing.Lesson 8. Relationship between variables



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Temporary organization of learning:

Block of content	Number of sessions	Hours	
Unit I: Fundamentals of Research Methodology in Physical Activity and Sports	14,00	28,00	
Unit II: Practical cases. Analysis of the data obtained from investigations of Physical Activity and Sport with statistical software: step by step.	16,00	32,00	



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References

BASIC BIBLIOGRAPHY:

Day, Robert A. (2005). *Cómo escribir y publicar trabajos científicos* (3ª Ed.) Washington, D.C.: Organización Panamericana de la Salud.

Diez, D., Barr, C. y Çentikaya-Rundel, M. (2013). *Openintro Statistics* (2ª Ed). Recuperado de https://www.openintro.org/stat/textbook.php

Martín González, Germán (2008). *Prácticas de Estadística básica con SPSS*. Valencia: Universidad Católica de Valencia San Vicente Mártir.

Martín González, Germán (2009). *Introducción a la estadística*. Valencia: Universidad Católica de Valencia San Vicente Mártir.

Sampieri Hernández, R., Collado Fernández, C. y Lucio Baptista, P. (2008). *Metodología de la investigación* (4ª Ed.). México D.F., México: McGraw-Hill.

Thomas, J.R., Nelson, J.K. y Silverman, S.J. (2007). *Métodos de Investigación en actividad física*. Barcelona: Paidotribo.

COMPLEMENTARY BIBLIOGRAPHY:

Ballester, R., Huertas, F., Yuste, F. J., Llorens, F., & Sanabria, D. (2015). *The relationship between regular sports participation and vigilance in male and female adolescents.* PloS one, 10(4).

Benito Peinado, P. J., Díaz Molina, V., Calderón Montero, F. J., Peinado Lozano, A. B., Martín Caro, C., Álvarez Sánchez, M., & Pérez Tejero, J. (2007). *La revisión bibliográfica sistemática en fisiología del ejercicio: recomendaciones prácticas*. RICYDE. Revista Internacional de Ciencias del Deporte, 3(6).

Borreani, S., Calatayud, J., Martin, J., Colado, J. C., Tella, V., & Behm, D. (2014). *Exercise intensity progression for exercises performed on unstable and stable platforms based on ankle muscle activation*. Gait & posture, 39(1), 404-409.

Prellezo, J.M. & García, J.M. (2003). INVESTIGAR. *Metodología y técnicas del trabajo científico*. Madrid: CCS.



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Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

<u>Situation 1: Teaching without limited capacity</u> (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

<u>Situation 2: Teaching with limited capacity</u> (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

Х	Microsoft Teams	
	1	
Х	Kaltura	



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Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

X Microsoft Teams	
X Kaltura	
Explanation about the practical sessions:	



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2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:						
X	The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.					
	The following changes will be made to adapt the subject's assessment to the online teaching.					
Course guide		Adaptation				
	Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used		

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System: