		Teaching Guide		
	Identifying Data 2023/2			
Subject (*)	Biopsychology		Code	652438010
Study programme	Mestrado Universitario en Psicoloxía Aplicada			
		Descriptors		
Cycle	Period	Year	Туре	Credits
Official Master's Degre	e 1st four-month period	First	Obligatory	3
Language	Spanish	·		·
Teaching method	Face-to-face			
Prerequisites				
Department	Psicoloxía			
Coordinador	Fernandez Garcia, Rosa Maria	E-mail	rosa.fernandez	@udc.es
Lecturers	Fernandez Garcia, Rosa Maria	E-mail	rosa.fernandez	@udc.es
Web				
General description	O estudo da biopsicología supón	un nexo de unión entre dúas	disciplinas: a psicoloxía	e a bioloxía. Neste sentido, supón
	o estudo da conduta e dos proces	os mentais dos individuos ate	ndendo aos seus compo	nnentes biolóxicos. Este
	achegamento ao estudo do compo	ortamento humano non preten	de explicar por si só a to	otalidade do mesmo, nin obviar o
	papel que desempeñan outros factores. Pola contra, pretende dar unha visión do comportamento que ha de s			
	dentro dunha perspectiva máis global. Esta materia impártese en español pero os estudantes internacionais			antes internacionais recibirán
	titorías en inglés. O material didác	tico estará dispoñible en inglé	s.	

	Study programme competences / results
Code	Study programme competences / results
A1	To recognize and respect human diversity and to understand that psychological explanations may vary across populations and contexts.
A2	To identify the personal, psycho-social and / or educative factors that may put human health at risk.
А3	Being able to elaborate a scientific report which involves defining a research problem, the hypotheses and variables, and defining the
	design, the sample and its method of selection, the tools for collecting data and their subsequent analysis and discussion.
A7	Knowing to track on a case by choosing appropriate and realistic objectives.
A8	To know the basis for hypotheses establishment with respect to a particular case, and from them to deduce contrastable statements.
A12	To acquire a basic theoretical knowledge about the state of the art in the different areas involved in applied psychology.
A13	Knowing and being able to use the different models, theories, methods and assessment and intervention techniques that are specific of
	the different areas of research in Applied Psychology, and developing a critical attitude typical of the scientific spirit.
A18	To show an ethical and professional compromise with respect to civic, social and global responsibilities.
A19	Knowing and complying with the deontologic obligations of Applied Psychology.
B1	Capacity for analysis and synthesis.
B2	Capacity for organization and planning.
В3	Teamwork.
В6	Critical thinking.
B8	Autonomous learning.
B10	Motivation for quality.
B11	Troubleshooting.
C1	To express oneself, both orally and in writing, in the official languages of the autonomous region.
C2	To dominate the expression and understanding of a spoken and written foreign language.
C3	Using the basic tools of information and communication technologies (ICT) necessary for the exercise of the profession and for lifelong
	learning.
C4	To develop for the exercise of an open, educated, critical, committed, democratic and supportive citizenship, capable of analyzing reality,
	diagnose problems, develop and deploy solutions based on knowledge and oriented to common good.
C6	To critically assess the knowledge, technology and information available to solve the problems they face.
C7	To assume as professionals and citizens the importance of lifelong learning.



C8 Assessing the importance of research, innovation and technology development in the socio-economic and cultural progress of society.

Learning outcomes			
Learning outcomes	Stud	y progra	amme
	cor	npetenc	es/
		results	
G1, G2, G3, G6, G8, G10	AR1	BR1	CC3
	AR2	BR2	CC6
	AR3	BR3	CC7
	AR7	BR6	
	AR12	BR8	
	AR18	BR11	
G1, G2, G3, G6, G8, G10	AR1	BR1	CC1
	AR2	BR2	CC2
	AR3	BR3	CC3
	AR7	BR6	CC4
	AR8	BR8	CC6
	AR12	BR10	CC7
	AR13	BR11	CC8
	AR18		
	AR19		
G1, G2, G3, G6, G8, G10	AR1	BR1	CC1
	AR2	BR2	CC2
	AR3	BR3	ССЗ
	AR7	BR6	CC4
	AR8	BR10	CC6
	AR12	BR11	CC7
	AR13		CC8
	AR18		
G1, G2, G3, G6, G8, G10	AR1	BR1	CC1
	AR12	BR2	CC2
	AR13	BR3	ССЗ
	AR18	BR6	CC6
		BR11	CC7
			CC8
E1,E2,E3,E7,E8,E12,E13,E18,E19	AR1	BR1	CC1
	AR2	BR2	CC2
	AR3	BR3	ССЗ
	AR7	BR6	CC6
	AR12	BR8	CC8
	AR18	BR11	
E1,E2,E3,E7,E8,E12,E13,E18,E19	AR1	BR1	CC1
	AR2	BR2	CC2
	AR3	BR3	CC3
	AR12	BR6	CC6
	AR18	BR8	CC7
			CC8

E1,E2,E3,E7,E8,E12,E13,E18,E19	AR1	BR1	CC1
	AR12	BR2	CC3
	AR18	BR3	CC6
		BR6	CC8
		BR8	
		BR10	
N1, N3, N4, N6, N7, N8	AR1	BR1	
	AR8	BR2	
	AR12	BR3	
	AR13	BR6	
		BR8	
N1, N3, N4, N6, N7, N8	AR1	BR1	
	AR12	BR2	
	AR13	BR3	
		BR6	
		BR8	
	-		

Contents		
Topic	Sub-topic	
UNIT 1. Introduction to the nervous system	Cells of the nervous system: neurons and glia. Structure of the nervous system.	
	General characteristics. Brain plasticity	
UNIT 2. Cell biology of the nervous system	Neurophysiology of the neuron. Membrane potential. Action potential. Lead action	
	potential.	
UNIT 3. Neurochemistry of synaptic transmission	The synapse. Types of synapses, synapse elements, nerve impulse transmission,	
	postsynaptic potentials, neuronal integration, autoreceptors.	
UNIT 4: Neurotransmitters	Acetylcholine, monoamines, amino acids, lipids. Pharmacology of the synapse	
UNIT 5: Development of the nervous system	Central nervous system and peripheral nervous system, parts and functions	
UNIT 6: Alterations of the nervous system due to early stress	Effects of early experience on the development of the nervous system. Neural	
	plasticity, consequences of early stress.	

	Plannin	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Oral presentation	A1 A2 A3 A7 A8 A12	9	18	27
	A13 A18 A19 B1 B2			
	B3 B6 B8 C4			
Document analysis	A3 A18 B10 C1 C2	2	4	6
Workbook	A13 B11 C3 C6 C7	1	10	11
Guest lecture / keynote speech	A7 A8 C8	7	14	21
Objective test	A12	2	4	6
Personalized attention		4	0	4
(*)The information in the planning table is fo	r guidance only and does not	take into account the I	neterogeneity of the stud	dents.

Methodologies		
Methodologies	Description	
Oral presentation	Elaboration and exhibition of a work, individual or in group, related to the program	
Document analysis	Analysis of the latest scientific advances through bibliographic research	
Workbook	Bibliography related to the topics of the subject	
Guest lecture /	Master classes accompanied by means and didactic resources	
keynote speech		



Objective test	Objective test with 50 test questions, true-false type

	Personalized attention
Methodologies	Description
Document analysis	Doubt resolution, bibliographic guidance, preparation of works, etc
Workbook	
Oral presentation	

		Assessment	
Methodologies	Competencies /	Description	Qualification
	Results		
Objective test	A12	preguntas tipo test	40
Document analysis	A3 A18 B10 C1 C2	Búsqueda e análisis de traballo de investigación	20
Workbook	A13 B11 C3 C6 C7	Bibliografía recomendada	20
Oral presentation	A1 A2 A3 A7 A8 A12	traballo persoal sobre un dos temas	20
	A13 A18 A19 B1 B2		
	B3 B6 B8 C4		

## **Assessment comments**

## subject qualification:

- Attendance and participation in the theoretical and practical classes, and especially in the latter
- Quality of supervised work or research projects (planning, elaboration, writing and analysis of conclusions)
- Objective test
- Evaluation of other training activities used, until completing the total qualification

	Sources of information
Basic	- J P J Pinel (2007). Biopsicologia. PEARSON EDUCACION SA
	- Kolb Whishaw (2006). Neuropsicologia humana. panamericana
	- P J Corr (2008). Psicologia Biologica. McGraw-Hill Interamericana
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Other comments

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.